

**The 21st International Conference on Luminescence**

# **ICL2026**

Institute for Liberal Arts and Sciences (ILAS) Bldg.,  
**Kyoto University**

22nd-26th September 2026  
(27th Excursion)

**Kyoto, JAPAN**



## Committees

### 【ORGANIZING CHAIR】

**Setsuhisa Tanabe**, Kyoto University ***Chair***

### 【LOCAL ORGANIZING COMMITTEES】

**Jumpei Ueda**, Japan Advanced Institute of Science and Technology ***Chair***

**Jian Xu**, Kyoto University

**Yuuki Kitagawa**, National Institute of Advanced Industrial Science and Technology

**Takayuki Nakanishi**, National Institute for Materials Science

**Yasufumi Fujiwara**, Ritsumeikan University/Osaka University

**Yoichi Kawakami**, Kyoto University

**Toshihiro Nakamura**, Kyoto University

**Masayuki Nishi**, Kyoto University of Advanced Science

**Masahito Sugiyama**, Kyoto University

**Masayuki Watanabe**, Kyoto University

**Takayuki Yanagida**, Nara Institute of Science and Technology

## 【INTERNATIONAL ADVISORY COMMITTEE】

**Daniel Jaque** (Universidad Autónoma de Madrid, Spain), **Chair**

**Cid de Araújo** (Federal University of Pernambuco, Brazil)

**Marco Bettinelli** (University of Verona, Italy)

**Luis Carlos** (University of Aveiro, Portugal)

**Fiorenzo Vetrone** (INRS, Canada)

**Philippe Boutinaud** (Ecole Nationale Supérieure de Chimie de Clermont-Ferrand, France)

**Rong-Jun Xie** (College of Materials, Xiamen University, China)

**Jasper Knoester** (University of Groningen, The Netherlands)

**Rushi Liu** (Taiwan University, Taiwan, China)

**Yichun Liu** (Northeast Normal University, China)

**Lingdong Sun** (Peking University, China)

**Amitava Patra** (Indian Association for the Cultivation of Science, India)

**Mike Reid** (University of Canterbury, New Zealand)

**Matthew Sellars** (Australian National University, Australia)

**Setsuhisa Tanabe** (Kyoto University, Japan), **Chair**

**Claudia Wickleder** (University of Siegen, Germany)

**Andrei Naumov** (Russian Academy of Sciences, Russia)

**Yong Zhang** (The University of North Carolina at Charlotte, USA)

**Sydney Ribeiro** (São Paulo State University, Brazil)

**Xiaogang Liu** (National University of Singapore, Singapore)

**Diana Serrano** (Chimie Paristech – CNRS, France)

**Emory Chan** (Molecular Foundry, Lawrence Berkeley National Laboratory, USA)

**Philippe Smet** (University of Ghent, Belgium)

**Vandana Bhalla** (Guru Nanak Dev University, India)

# Campus Map



**1**

Clock Tower  
Centennial Hall (1F)  
• 22nd, Plenary

International  
Conference Hall (2F)  
• 22nd, Reception

**2**

Institute for Liberal Arts  
and Sciences (ILAS) Bldg.  
• Registration Desk  
• Lecture Hall A, B  
• Room E (Basement)  
• Coffee break Room

**3**

Center Bldg.  
(South Wing/West Wing)  
• Room C  
• Room D

**4**

Graduate School of  
Human and Environmental  
Studies Bldg.  
• Poster Session (Basement)

**5**

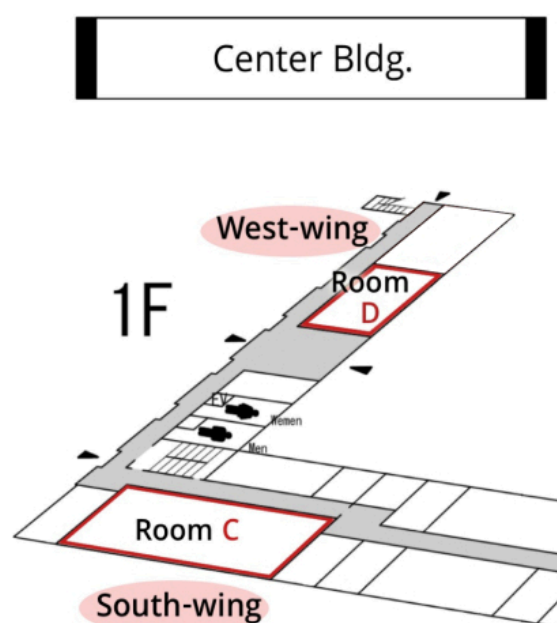
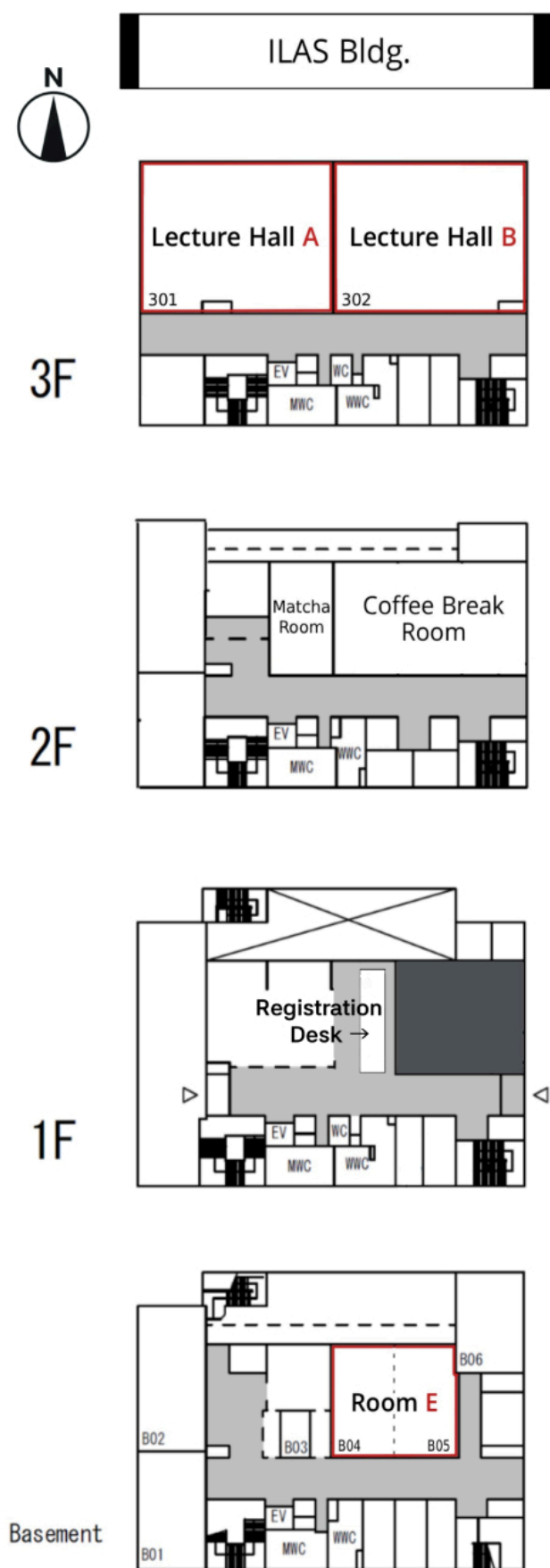
Yoshida Cafeteria  
OPEN 24th–26th.  
11:30–13:30

**6**

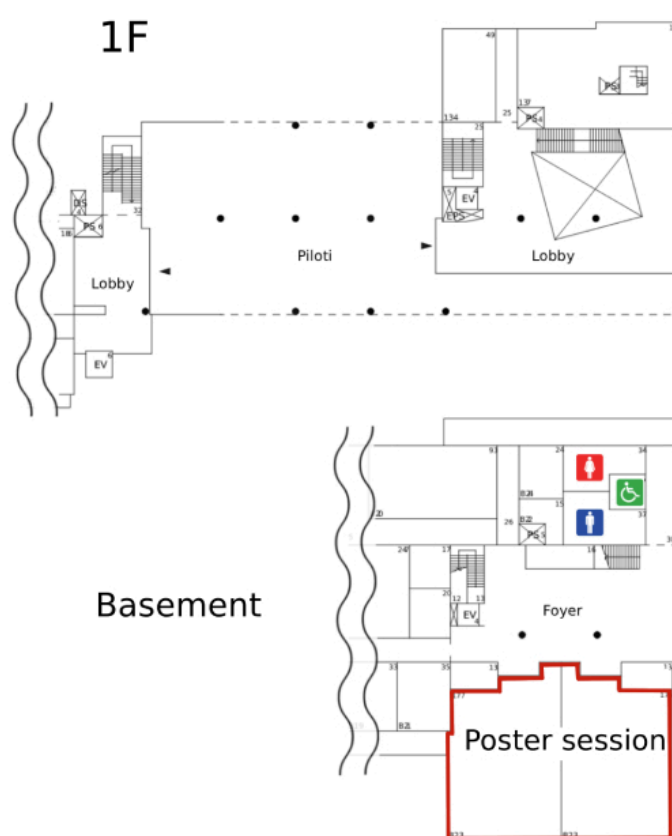
Yoshida Shop  
OPEN Weekday  
10:00–17:00

## Kyoto University

# Floor Map



**Graduate School of Human and Environmental Studies Bldg.**



## Sponsors

### Gold



**NEMOTO & CO., LTD.**

Nemoto & Co., Ltd.

### Silver

---



Shin-Etsu Chemical Co., Ltd.



Denka Company Limited



**TIME-TECH SPECTRA**  
— T T S —

Time-Tech Spectra Instrument Co., Ltd.



**EDINBURGH  
INSTRUMENTS**

Edinburgh Instruments Ltd.

### Bronze

---



NICHIA CORPORATION



SUMITA OPTICAL GLASS, Inc.



Custom LED Spectral Design

Sialon Optics Inc.



**Nippon Electric Glass**

Nippon Electric Glass Co., Ltd.



**MITSUBISHI  
CHEMICAL  
GROUP**

Mitsubishi Chemical

Mitsubishi Chemical Corporation

## Foundation Grant

### The Kyoto University Foundation

## Partners



**ILAS**  
Kyoto University  
Institute for Liberal Arts and Sciences



**京都大学**  
KYOTO UNIVERSITY

Graduate School of Human and Environmental Studies  
Faculty of Integrated Human Studies



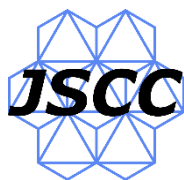
ICOOPMA2026  
Hamamatsu



**ELSEVIER**



The Rare Earth Society of Japan



Japan Society  
of Coordination  
Chemistry.



The Chemical  
Society of Japan



The Japan Society of Applied Physics

The Japan Society  
of Applied Physics



The Ceramic  
Society of  
Japan

# Schedule Table

|                        |
|------------------------|
| Plenary talk (50+10)   |
| Invited talk (25+5)    |
| Oral talk (15+5)       |
| Poster Session         |
| Ceremony               |
| ICL Prize Lecture      |
| G.Blasse award Lecture |

Day 1

| Day1 Sep. 22nd (Tuesday) |                                                               |                            |                |                |                |                |  |  |
|--------------------------|---------------------------------------------------------------|----------------------------|----------------|----------------|----------------|----------------|--|--|
| Time                     | Lecture Hall A                                                |                            | Lecture Hall B | Lecture Room C | Lecture Room D | Lecture Room E |  |  |
| 09:00                    |                                                               |                            |                |                |                |                |  |  |
|                          |                                                               |                            |                |                |                |                |  |  |
|                          |                                                               |                            |                |                |                |                |  |  |
|                          |                                                               |                            |                |                |                |                |  |  |
|                          |                                                               |                            |                |                |                |                |  |  |
| 10:00                    | Registration at Entrance<br>Robby 1F of ILAS<br>(10:00~16:00) |                            |                |                |                |                |  |  |
| 10:30                    |                                                               |                            |                |                |                |                |  |  |
|                          |                                                               |                            |                |                |                |                |  |  |
| 11:00                    |                                                               |                            |                |                |                |                |  |  |
| 11:30                    |                                                               |                            |                |                |                |                |  |  |
| 12:00                    |                                                               |                            |                |                |                |                |  |  |
| 12:30                    |                                                               |                            |                |                |                |                |  |  |
|                          |                                                               |                            |                |                |                |                |  |  |
| 13:00                    |                                                               |                            |                |                |                |                |  |  |
| 13:20                    |                                                               |                            |                |                |                |                |  |  |
| 13:20                    | Jean-Claude G. B<br>ünzli (1A01)                              | Luis Carlos<br>(1B01)      | Closed         |                |                |                |  |  |
| 13:50                    | Yasufumi Fujiwara<br>(1A02)                                   | P. James Schuck<br>(1B02)  |                |                |                |                |  |  |
| 14:20                    | Coffee Break (20 min)                                         |                            |                |                |                |                |  |  |
| 14:40                    | Yoshihiko<br>Kanemitsu (1A03)                                 | Fiorenzo Vetrone<br>(1B03) |                |                |                |                |  |  |
| 15:10                    | Takashi Takeda<br>(1A04)                                      | Jiajia Zhou<br>(1B04)      |                |                |                |                |  |  |
| 15:40                    | Moving to Clock Tower 1F (20 min)                             |                            |                |                |                |                |  |  |
| 16:00                    | 1P01 Hiroshi Amano                                            |                            |                |                |                |                |  |  |
| 17:00                    | 1P02 Takashi Mukai                                            |                            |                |                |                |                |  |  |
| 18:00                    | Group photo (10 min)                                          |                            |                |                |                |                |  |  |
|                          | Moving to Clock Tower 2F (20 min)                             |                            |                |                |                |                |  |  |
| 18:30                    | Reception (Clock Tower International Hall 2F) (18:30~20:30)   |                            |                |                |                |                |  |  |
|                          |                                                               |                            |                |                |                |                |  |  |
|                          |                                                               |                            |                |                |                |                |  |  |
|                          |                                                               |                            |                |                |                |                |  |  |
|                          |                                                               |                            |                |                |                |                |  |  |
| 20:30                    |                                                               |                            |                |                |                |                |  |  |

## Day 2

| Day2 Sep. 23rd (Wednesday) |                                                                       |                            |                           |                                |                                |       |
|----------------------------|-----------------------------------------------------------------------|----------------------------|---------------------------|--------------------------------|--------------------------------|-------|
| Time                       | Lecture Hall A                                                        | Lecture Hall B             | Lecture Room C            | Lecture Room D                 | Lecture Room E                 | Time  |
| 09:00                      | 2P01 <b>Andries Meijerink</b>                                         |                            | <b>Closed at AM</b>       |                                |                                |       |
| 10:00                      | 2P02 <b>Susumu Noda</b>                                               |                            |                           |                                |                                |       |
| 11:00                      | Coffee Break (20 min)                                                 |                            |                           |                                |                                |       |
| 11:20                      | 2P03 <b>Chihaya Adachi</b>                                            |                            |                           |                                |                                |       |
| 12:20                      | ★Lunch Break (12:20~14:10)                                            |                            |                           |                                |                                |       |
| 12:40                      | ★Lunch Break & Poster Session I (12:40~13:50)<br>Lunch Box & HES-Base |                            |                           |                                |                                |       |
| 14:10                      | Walking to Session Rooms                                              |                            |                           |                                |                                |       |
| 14:20                      | Claudia Wickleder (2A01)                                              | Philippe Goldner (2B01)    | Andrey Turshatov (2C01)   | Ayla J.H. Dekker (2D01)        | Shunichiro Ito (2E01)          | 14:20 |
| 14:50                      | Mikhail G. Brik (2A02)                                                | Kyoko Kitamura (2B02)      | Mikołaj Kamiński (2C02)   | Emilia Wakulska (2D02)         | Dmitry Kovalevskiy (2E02)      | 14:40 |
| 15:20                      | Freddy Rabouw (2A03)                                                  | Koichi Okamoto (2B03)      | Yu Chieh Huang (2C03)     | Gabriel Moronari (2D03)        | Dominik Madea (2E03)           | 15:00 |
| 15:50                      | Daniel Jaque Garcia (2A04)                                            | Michael F Reid (2B04)      | Maximilian Stremel (2C04) | Ana Maria Pires (2D04)         | Giorgio Facchetti (2E04)       | 15:20 |
| 16:20                      |                                                                       |                            | Wan-Yun Chu (2C05)        | Fernando Eduardo Maturi (2D05) | Hideyuki Takahashi (2E05)      | 15:40 |
| 16:40                      |                                                                       |                            | Takatoshi Seto (2C06)     |                                |                                | 16:00 |
| 17:10                      | Coffee Break (20 min)                                                 |                            |                           |                                |                                |       |
| 17:40                      | Ru-Shi Liu (2A05)                                                     | Fan Zhang (2B05)           | Jan Hrabovsky (2C07)      | Racha Akroun (2D06)            | Yukinori Koyama (2E06)         | 16:40 |
| 18:10                      | Jakoah Brgoch (2A06)                                                  | Artur Bednarkiewicz (2B06) | Priya Pandey (2C08)       | Ariel Levenson (2D07)          | Simon Delacroix (2E07)         | 17:00 |
| 18:40                      | Chun Che Lin (2A07)                                                   | Yong Zhang (2B07)          | Karolina Kowalska (2C09)  | Koki Hayashi (2D08)            | George Fitzgerald (2E08)       | 17:20 |
| 19:10                      | Won Bin Im (2A08)                                                     | Kensuke Miyajima (2B08)    | Federico Gonzalez (2C10)  | Kensuke Matsumoto (2D09)       | Minseok Choi (2E9)             | 17:40 |
| 19:40                      |                                                                       |                            | Henry Kwan (2C11)         | Raquel Utrera-Melero (2D10)    | Albano N. Carneiro Neto (2E10) | 18:00 |
| 20:10                      |                                                                       |                            | Dmitry Spassky (2C12)     | Manas Kumar Sarangi (2D11)     |                                | 18:20 |
| 20:40                      | Walking to Poster Venue (Base of Human and Environmental bldg.)       |                            |                           |                                |                                |       |
| 21:10                      | ★Poster Session II (18:50~20:00)                                      |                            |                           |                                |                                |       |
| 21:40                      |                                                                       |                            |                           |                                |                                |       |
| 22:10                      |                                                                       |                            |                           |                                |                                |       |
| 22:40                      |                                                                       |                            |                           |                                |                                |       |
| 23:10                      |                                                                       |                            |                           |                                |                                |       |
| 23:40                      |                                                                       |                            |                           |                                |                                |       |
| 00:10                      |                                                                       |                            |                           |                                |                                |       |
| 00:40                      |                                                                       |                            |                           |                                |                                |       |
| 01:10                      |                                                                       |                            |                           |                                |                                |       |
| 01:40                      |                                                                       |                            |                           |                                |                                |       |
| 02:10                      |                                                                       |                            |                           |                                |                                |       |
| 02:40                      |                                                                       |                            |                           |                                |                                |       |
| 03:10                      |                                                                       |                            |                           |                                |                                |       |
| 03:40                      |                                                                       |                            |                           |                                |                                |       |
| 04:10                      |                                                                       |                            |                           |                                |                                |       |
| 04:40                      |                                                                       |                            |                           |                                |                                |       |
| 05:10                      |                                                                       |                            |                           |                                |                                |       |
| 05:40                      |                                                                       |                            |                           |                                |                                |       |
| 06:10                      |                                                                       |                            |                           |                                |                                |       |
| 06:40                      |                                                                       |                            |                           |                                |                                |       |
| 07:10                      |                                                                       |                            |                           |                                |                                |       |
| 07:40                      |                                                                       |                            |                           |                                |                                |       |
| 08:10                      |                                                                       |                            |                           |                                |                                |       |
| 08:40                      |                                                                       |                            |                           |                                |                                |       |
| 09:10                      |                                                                       |                            |                           |                                |                                |       |
| 09:40                      |                                                                       |                            |                           |                                |                                |       |
| 10:10                      |                                                                       |                            |                           |                                |                                |       |
| 10:40                      |                                                                       |                            |                           |                                |                                |       |
| 11:10                      |                                                                       |                            |                           |                                |                                |       |
| 11:40                      |                                                                       |                            |                           |                                |                                |       |
| 12:10                      |                                                                       |                            |                           |                                |                                |       |
| 12:40                      |                                                                       |                            |                           |                                |                                |       |
| 13:10                      |                                                                       |                            |                           |                                |                                |       |
| 13:40                      |                                                                       |                            |                           |                                |                                |       |
| 14:10                      |                                                                       |                            |                           |                                |                                |       |
| 14:40                      |                                                                       |                            |                           |                                |                                |       |
| 15:10                      |                                                                       |                            |                           |                                |                                |       |
| 15:40                      |                                                                       |                            |                           |                                |                                |       |
| 16:10                      |                                                                       |                            |                           |                                |                                |       |
| 16:40                      |                                                                       |                            |                           |                                |                                |       |
| 17:10                      |                                                                       |                            |                           |                                |                                |       |
| 17:40                      |                                                                       |                            |                           |                                |                                |       |
| 18:10                      |                                                                       |                            |                           |                                |                                |       |
| 18:40                      |                                                                       |                            |                           |                                |                                |       |
| 19:10                      |                                                                       |                            |                           |                                |                                |       |
| 19:40                      |                                                                       |                            |                           |                                |                                |       |
| 20:10                      |                                                                       |                            |                           |                                |                                |       |
| 20:40                      |                                                                       |                            |                           |                                |                                |       |
| 21:10                      |                                                                       |                            |                           |                                |                                |       |
| 21:40                      |                                                                       |                            |                           |                                |                                |       |
| 22:10                      |                                                                       |                            |                           |                                |                                |       |
| 22:40                      |                                                                       |                            |                           |                                |                                |       |
| 23:10                      |                                                                       |                            |                           |                                |                                |       |
| 23:40                      |                                                                       |                            |                           |                                |                                |       |
| 00:10                      |                                                                       |                            |                           |                                |                                |       |
| 00:40                      |                                                                       |                            |                           |                                |                                |       |
| 01:10                      |                                                                       |                            |                           |                                |                                |       |
| 01:40                      |                                                                       |                            |                           |                                |                                |       |
| 02:10                      |                                                                       |                            |                           |                                |                                |       |
| 02:40                      |                                                                       |                            |                           |                                |                                |       |
| 03:10                      |                                                                       |                            |                           |                                |                                |       |
| 03:40                      |                                                                       |                            |                           |                                |                                |       |
| 04:10                      |                                                                       |                            |                           |                                |                                |       |
| 04:40                      |                                                                       |                            |                           |                                |                                |       |
| 05:10                      |                                                                       |                            |                           |                                |                                |       |
| 05:40                      |                                                                       |                            |                           |                                |                                |       |
| 06:10                      |                                                                       |                            |                           |                                |                                |       |
| 06:40                      |                                                                       |                            |                           |                                |                                |       |
| 07:10                      |                                                                       |                            |                           |                                |                                |       |
| 07:40                      |                                                                       |                            |                           |                                |                                |       |
| 08:10                      |                                                                       |                            |                           |                                |                                |       |
| 08:40                      |                                                                       |                            |                           |                                |                                |       |
| 09:10                      |                                                                       |                            |                           |                                |                                |       |
| 09:40                      |                                                                       |                            |                           |                                |                                |       |
| 10:10                      |                                                                       |                            |                           |                                |                                |       |
| 10:40                      |                                                                       |                            |                           |                                |                                |       |
| 11:10                      |                                                                       |                            |                           |                                |                                |       |
| 11:40                      |                                                                       |                            |                           |                                |                                |       |
| 12:10                      |                                                                       |                            |                           |                                |                                |       |
| 12:40                      |                                                                       |                            |                           |                                |                                |       |
| 13:10                      |                                                                       |                            |                           |                                |                                |       |
| 13:40                      |                                                                       |                            |                           |                                |                                |       |
| 14:10                      |                                                                       |                            |                           |                                |                                |       |
| 14:40                      |                                                                       |                            |                           |                                |                                |       |
| 15:10                      |                                                                       |                            |                           |                                |                                |       |
| 15:40                      |                                                                       |                            |                           |                                |                                |       |
| 16:10                      |                                                                       |                            |                           |                                |                                |       |
| 16:40                      |                                                                       |                            |                           |                                |                                |       |
| 17:10                      |                                                                       |                            |                           |                                |                                |       |
| 17:40                      |                                                                       |                            |                           |                                |                                |       |
| 18:10                      |                                                                       |                            |                           |                                |                                |       |
| 18:40                      |                                                                       |                            |                           |                                |                                |       |
| 19:10                      |                                                                       |                            |                           |                                |                                |       |
| 19:40                      |                                                                       |                            |                           |                                |                                |       |
| 20:10                      |                                                                       |                            |                           |                                |                                |       |
| 20:40                      |                                                                       |                            |                           |                                |                                |       |
| 21:10                      |                                                                       |                            |                           |                                |                                |       |
| 21:40                      |                                                                       |                            |                           |                                |                                |       |
| 22:10                      |                                                                       |                            |                           |                                |                                |       |
| 22:40                      |                                                                       |                            |                           |                                |                                |       |
| 23:10                      |                                                                       |                            |                           |                                |                                |       |
| 23:40                      |                                                                       |                            |                           |                                |                                |       |
| 00:10                      |                                                                       |                            |                           |                                |                                |       |
| 00:40                      |                                                                       |                            |                           |                                |                                |       |
| 01:10                      |                                                                       |                            |                           |                                |                                |       |
| 01:40                      |                                                                       |                            |                           |                                |                                |       |
| 02:10                      |                                                                       |                            |                           |                                |                                |       |
| 02:40                      |                                                                       |                            |                           |                                |                                |       |
| 03:10                      |                                                                       |                            |                           |                                |                                |       |
| 03:40                      |                                                                       |                            |                           |                                |                                |       |
| 04:10                      |                                                                       |                            |                           |                                |                                |       |
| 04:40                      |                                                                       |                            |                           |                                |                                |       |
| 05:10                      |                                                                       |                            |                           |                                |                                |       |
| 05:40                      |                                                                       |                            |                           |                                |                                |       |
| 06:10                      |                                                                       |                            |                           |                                |                                |       |
| 06:40                      |                                                                       |                            |                           |                                |                                |       |
| 07:10                      |                                                                       |                            |                           |                                |                                |       |
| 07:40                      |                                                                       |                            |                           |                                |                                |       |
| 08:10                      |                                                                       |                            |                           |                                |                                |       |
| 08:40                      |                                                                       |                            |                           |                                |                                |       |
| 09:10                      |                                                                       |                            |                           |                                |                                |       |
| 09:40                      |                                                                       |                            |                           |                                |                                |       |
| 10:10                      |                                                                       |                            |                           |                                |                                |       |
| 10:40                      |                                                                       |                            |                           |                                |                                |       |
| 11:10                      |                                                                       |                            |                           |                                |                                |       |
| 11:40                      |                                                                       |                            |                           |                                |                                |       |
| 12:10                      |                                                                       |                            |                           |                                |                                |       |
| 12:40                      |                                                                       |                            |                           |                                |                                |       |
| 13:10                      |                                                                       |                            |                           |                                |                                |       |
| 13:40                      |                                                                       |                            |                           |                                |                                |       |
| 14:10                      |                                                                       |                            |                           |                                |                                |       |
| 14:40                      |                                                                       |                            |                           |                                |                                |       |
| 15:10                      |                                                                       |                            |                           |                                |                                |       |
| 15:40                      |                                                                       |                            |                           |                                |                                |       |
| 16:10                      |                                                                       |                            |                           |                                |                                |       |
| 16:40                      |                                                                       |                            |                           |                                |                                |       |
| 17:10                      |                                                                       |                            |                           |                                |                                |       |
| 17:40                      |                                                                       |                            |                           |                                |                                |       |
| 18:10                      |                                                                       |                            |                           |                                |                                |       |
| 18:40                      |                                                                       |                            |                           |                                |                                |       |
| 19:10                      |                                                                       |                            |                           |                                |                                |       |
| 19:40                      |                                                                       |                            |                           |                                |                                |       |
| 20:10                      |                                                                       |                            |                           |                                |                                |       |
| 20:40                      |                                                                       |                            |                           |                                |                                |       |
| 21:10                      |                                                                       |                            |                           |                                |                                |       |
| 21:40                      |                                                                       |                            |                           |                                |                                |       |
| 22:10                      |                                                                       |                            |                           |                                |                                |       |
| 22:40                      |                                                                       |                            |                           |                                |                                |       |
| 23:10                      |                                                                       |                            |                           |                                |                                |       |
| 23:40                      |                                                                       |                            |                           |                                |                                |       |
| 00:10                      |                                                                       |                            |                           |                                |                                |       |
| 00:40                      |                                                                       |                            |                           |                                |                                |       |
| 01:10                      |                                                                       |                            |                           |                                |                                |       |
| 01:40                      |                                                                       |                            |                           |                                |                                |       |
| 02:10                      |                                                                       |                            |                           |                                |                                |       |
| 02:40                      |                                                                       |                            |                           |                                |                                |       |
| 03:10                      |                                                                       |                            |                           |                                |                                |       |
| 03:40                      |                                                                       |                            |                           |                                |                                |       |
| 04:10                      |                                                                       |                            |                           |                                |                                |       |
| 04:40                      |                                                                       |                            |                           |                                |                                |       |
| 05:10                      |                                                                       |                            |                           |                                |                                |       |
| 05:40                      |                                                                       |                            |                           |                                |                                |       |
| 06:10                      |                                                                       |                            |                           |                                |                                |       |
| 06:40                      |                                                                       |                            |                           |                                |                                |       |
| 07:10                      |                                                                       |                            |                           |                                |                                |       |
| 07:40                      |                                                                       |                            |                           |                                |                                |       |
| 08:10                      |                                                                       |                            |                           |                                |                                |       |
| 08:40                      |                                                                       |                            |                           |                                |                                |       |
| 09:10                      |                                                                       |                            |                           |                                |                                |       |
| 09:40                      |                                                                       |                            |                           |                                |                                |       |
| 10:10                      |                                                                       |                            |                           |                                |                                |       |
| 10:40                      |                                                                       |                            |                           |                                |                                |       |
| 11:10                      |                                                                       |                            |                           |                                |                                |       |
| 11:40                      |                                                                       |                            |                           |                                |                                |       |
| 12:10                      |                                                                       |                            |                           |                                |                                |       |
| 12:40                      |                                                                       |                            |                           |                                |                                |       |
| 13:10                      |                                                                       |                            |                           |                                |                                |       |
| 13:40                      |                                                                       |                            |                           |                                |                                |       |
| 14:10                      |                                                                       |                            |                           |                                |                                |       |
| 14:40                      |                                                                       |                            |                           |                                |                                |       |
| 15:10                      |                                                                       |                            |                           |                                |                                |       |
| 15:40                      |                                                                       |                            |                           |                                |                                |       |
| 16:10                      |                                                                       |                            |                           |                                |                                |       |
| 16:40                      |                                                                       |                            |                           |                                |                                |       |
| 17:10                      |                                                                       |                            |                           |                                |                                |       |
| 17:40                      |                                                                       |                            |                           |                                |                                |       |
| 18:10                      |                                                                       |                            |                           |                                |                                |       |
| 18:40                      |                                                                       |                            |                           |                                |                                |       |
| 19:10                      |                                                                       |                            |                           |                                |                                |       |
| 19:40                      |                                                                       |                            |                           |                                |                                |       |
| 20:10                      |                                                                       |                            |                           |                                |                                |       |
| 20:40                      |                                                                       |                            |                           |                                |                                |       |
| 21:10                      |                                                                       |                            |                           |                                |                                |       |
| 21:40                      |                                                                       |                            |                           |                                |                                |       |
| 22:10                      |                                                                       |                            |                           |                                |                                |       |
| 22:40                      |                                                                       |                            |                           |                                |                                |       |
| 23:10                      |                                                                       |                            |                           |                                |                                |       |
| 23:40                      |                                                                       |                            |                           |                                |                                |       |
| 00:10                      |                                                                       |                            |                           |                                |                                |       |
| 00:40                      |                                                                       |                            |                           |                                |                                |       |
| 01:10                      |                                                                       |                            |                           |                                |                                |       |
| 01:40                      |                                                                       |                            |                           |                                |                                |       |
| 02:10                      |                                                                       |                            |                           |                                |                                |       |
| 02:40                      |                                                                       |                            |                           |                                |                                |       |
| 03:10                      |                                                                       |                            |                           |                                |                                |       |
| 03:40                      |                                                                       |                            |                           |                                |                                |       |
| 04:10                      |                                                                       |                            |                           |                                |                                |       |
| 04:40                      |                                                                       |                            |                           |                                |                                |       |
| 05:10                      |                                                                       |                            |                           |                                |                                |       |
| 05:40                      |                                                                       |                            |                           |                                |                                |       |
| 06:10                      |                                                                       |                            |                           |                                |                                |       |
| 06:40                      |                                                                       |                            |                           |                                |                                |       |
| 07:10                      |                                                                       |                            |                           |                                |                                |       |
| 07:40                      |                                                                       |                            |                           |                                |                                |       |
| 08:10                      |                                                                       |                            |                           |                                |                                |       |
| 08:40                      |                                                                       |                            |                           |                                |                                |       |
| 09:10                      |                                                                       |                            |                           |                                |                                |       |
| 09:40                      |                                                                       |                            |                           |                                |                                |       |
| 10:10                      |                                                                       |                            |                           |                                |                                |       |
| 10:40                      |                                                                       |                            |                           |                                |                                |       |
| 11:10                      |                                                                       |                            |                           |                                |                                |       |
| 11:40                      |                                                                       |                            |                           |                                |                                |       |
| 12:10                      |                                                                       |                            |                           |                                |                                |       |
| 12:40                      |                                                                       |                            |                           |                                |                                |       |
| 13:10                      |                                                                       |                            |                           |                                |                                |       |
| 13:40                      |                                                                       |                            |                           |                                |                                |       |
| 14:10                      |                                                                       |                            |                           |                                |                                |       |
| 14:40                      |                                                                       |                            |                           |                                |                                |       |
| 15:10                      |                                                                       |                            |                           |                                |                                |       |
| 15:40                      |                                                                       |                            |                           |                                |                                |       |
| 16:10                      |                                                                       |                            |                           |                                |                                |       |
| 16:40                      |                                                                       |                            |                           |                                |                                |       |
| 17:10                      |                                                                       |                            |                           |                                |                                |       |
| 17:40                      |                                                                       |                            |                           |                                |                                |       |
| 18:10                      |                                                                       |                            |                           |                                |                                |       |
| 18:40                      |                                                                       |                            |                           |                                |                                |       |
| 19:10                      |                                                                       |                            |                           |                                |                                |       |
| 19:40                      |                                                                       |                            |                           |                                |                                |       |
| 20:10                      |                                                                       |                            |                           |                                |                                |       |
| 20:40                      |                                                                       |                            |                           |                                |                                |       |
| 21:10                      |                                                                       |                            |                           |                                |                                |       |
| 21:40                      |                                                                       |                            |                           |                                |                                |       |
| 22:10                      |                                                                       |                            |                           |                                |                                |       |
| 22:40                      |                                                                       |                            |                           |                                |                                |       |
| 23:10                      |                                                                       |                            |                           |                                |                                |       |
| 23:40                      |                                                                       |                            |                           |                                |                                |       |
| 00:10                      |                                                                       |                            |                           |                                |                                |       |
| 00:40                      |                                                                       |                            |                           |                                |                                |       |
| 01:10                      |                                                                       |                            |                           |                                |                                |       |
| 01:40                      |                                                                       |                            |                           |                                |                                |       |
| 02:10                      |                                                                       |                            |                           |                                |                                |       |
| 02:40                      |                                                                       |                            |                           |                                |                                |       |
| 03:10                      |                                                                       |                            |                           |                                |                                |       |
| 03:40                      |                                                                       |                            |                           |                                |                                |       |
| 04:10                      |                                                                       |                            |                           |                                |                                |       |
| 04:40                      |                                                                       |                            |                           |                                |                                |       |
| 05:10                      |                                                                       |                            |                           |                                |                                |       |
| 05:40                      |                                                                       |                            |                           |                                |                                |       |
| 06:10                      |                                                                       |                            |                           |                                |                                |       |
| 06:40                      |                                                                       |                            |                           |                                |                                |       |
| 07:10                      |                                                                       |                            |                           |                                |                                |       |
| 07:40                      |                                                                       |                            |                           |                                |                                |       |
| 08:10                      |                                                                       |                            |                           |                                |                                |       |
| 08:40                      |                                                                       |                            |                           |                                |                                |       |
| 09:10                      |                                                                       |                            |                           |                                |                                |       |
| 09:40                      |                                                                       |                            |                           |                                |                                |       |
| 10:10                      |                                                                       |                            |                           |                                |                                |       |
| 10:40                      |                                                                       |                            |                           |                                |                                |       |
| 11:10                      |                                                                       |                            |                           |                                |                                |       |
| 11:40                      |                                                                       |                            |                           |                                |                                |       |
| 12:10                      |                                                                       |                            |                           |                                |                                |       |
| 12:40                      |                                                                       |                            |                           |                                |                                |       |
| 13:10                      |                                                                       |                            |                           |                                |                                |       |
| 13:40                      |                                                                       |                            |                           |                                |                                |       |
| 14:10                      |                                                                       |                            |                           |                                |                                |       |
| 14:40                      |                                                                       |                            |                           |                                |                                |       |
| 15:10                      |                                                                       |                            |                           |                                |                                |       |
| 15:40                      |                                                                       |                            |                           |                                |                                |       |
| 16:10                      |                                                                       |                            |                           |                                |                                |       |
| 16:40                      |                                                                       |                            |                           |                                |                                |       |
| 17:10                      |                                                                       |                            |                           |                                |                                |       |
| 17:40                      |                                                                       |                            |                           |                                |                                |       |
| 18:10                      |                                                                       |                            |                           |                                |                                |       |
| 18:40                      |                                                                       |                            |                           |                                |                                |       |
| 19:10                      |                                                                       |                            |                           |                                |                                |       |
| 19:40                      |                                                                       |                            |                           |                                |                                |       |
| 20:10                      |                                                                       |                            |                           |                                |                                |       |
| 20:40                      |                                                                       |                            |                           |                                |                                |       |
| 21:10                      |                                                                       |                            |                           |                                |                                |       |
| 21:40                      |                                                                       |                            |                           |                                |                                |       |
| 22:10                      |                                                                       |                            |                           |                                |                                |       |
| 22:40                      |                                                                       |                            |                           |                                |                                |       |
| 23:10                      |                                                                       |                            |                           |                                |                                |       |
| 23:40                      |                                                                       |                            |                           |                                |                                |       |
| 00:10                      |                                                                       |                            |                           |                                |                                |       |
| 00:40                      |                                                                       |                            |                           |                                |                                |       |
| 01:10                      |                                                                       |                            |                           |                                |                                |       |
| 01:40                      |                                                                       |                            |                           |                                |                                |       |
| 02:10                      |                                                                       |                            |                           |                                |                                |       |
| 02:40                      |                                                                       |                            |                           |                                |                                |       |
| 03:10                      |                                                                       |                            |                           |                                |                                |       |
| 03:40                      |                                                                       |                            |                           |                                |                                |       |
| 04:10                      |                                                                       |                            |                           |                                |                                |       |
| 04:40                      |                                                                       |                            |                           |                                |                                |       |
| 05:10                      |                                                                       |                            |                           |                                |                                |       |
| 05:40                      |                                                                       |                            |                           |                                |                                |       |
| 06:10                      |                                                                       |                            |                           |                                |                                |       |
| 06:40                      |                                                                       |                            |                           |                                |                                |       |
| 07:10                      |                                                                       |                            |                           |                                |                                |       |
| 07:40                      |                                                                       |                            |                           |                                |                                |       |
| 08:10                      |                                                                       |                            |                           |                                |                                |       |
| 08:40                      |                                                                       |                            |                           |                                |                                |       |
| 09:10                      |                                                                       |                            |                           |                                |                                |       |
| 09:40                      |                                                                       |                            |                           |                                |                                |       |
| 10:10                      |                                                                       |                            |                           |                                |                                |       |
| 10:40                      |                                                                       |                            |                           |                                |                                |       |
| 11:10                      |                                                                       |                            |                           |                                |                                |       |
| 11:40                      |                                                                       |                            |                           |                                |                                |       |
| 12:10                      |                                                                       |                            |                           |                                |                                |       |
| 12:40                      |                                                                       |                            |                           |                                |                                |       |
| 13:10                      |                                                                       |                            |                           |                                |                                |       |
| 13:40                      |                                                                       |                            |                           |                                |                                |       |
| 14:10                      |                                                                       |                            |                           |                                |                                |       |
| 14:40                      |                                                                       |                            |                           |                                |                                |       |
| 15:10                      |                                                                       |                            |                           |                                |                                |       |
| 15:40                      |                                                                       |                            |                           |                                |                                |       |
| 16:10                      |                                                                       |                            |                           |                                |                                |       |
| 16:40                      |                                                                       |                            |                           |                                |                                |       |
| 17:10                      |                                                                       |                            |                           |                                |                                |       |
| 17:40                      |                                                                       |                            |                           |                                |                                |       |
| 18:10                      |                                                                       |                            |                           |                                |                                |       |
| 18:40                      |                                                                       |                            |                           |                                |                                |       |
| 19:10                      |                                                                       |                            |                           |                                |                                |       |
| 19:40                      |                                                                       |                            |                           |                                |                                |       |
| 20:10                      |                                                                       |                            |                           |                                |                                |       |
| 20:40                      |                                                                       |                            |                           |                                |                                |       |
| 21:10                      |                                                                       |                            |                           |                                |                                |       |
| 21:40                      |                                                                       |                            |                           |                                |                                |       |
| 22:10                      |                                                                       |                            |                           |                                |                                |       |
| 22:40                      |                                                                       |                            |                           |                                |                                |       |
| 23:10                      |                                                                       |                            |                           |                                |                                |       |
| 23:40                      |                                                                       |                            |                           |                                |                                |       |
| 00:10                      |                                                                       |                            |                           |                                |                                |       |
| 00:40                      |                                                                       |                            |                           |                                |                                |       |
| 01:10                      |                                                                       |                            |                           |                                |                                |       |
| 01:40                      |                                                                       |                            |                           |                                |                                |       |
| 02:10                      |                                                                       |                            |                           |                                |                                |       |
| 02:40                      |                                                                       |                            |                           |                                |                                |       |
| 03:10                      |                                                                       |                            |                           |                                |                                |       |
| 03:40                      |                                                                       |                            |                           |                                |                                |       |
| 04:10                      |                                                                       |                            |                           |                                |                                |       |
| 04:40                      |                                                                       |                            |                           |                                |                                |       |
| 05:10                      |                                                                       |                            |                           |                                |                                |       |
| 05:40                      |                                                                       |                            |                           |                                |                                |       |
| 06:10                      |                                                                       |                            |                           |                                |                                |       |
| 06:40                      |                                                                       |                            |                           |                                |                                |       |
| 07:10                      |                                                                       |                            |                           |                                |                                |       |
| 07:40                      |                                                                       |                            |                           |                                |                                |       |
| 08:10                      |                                                                       |                            |                           |                                |                                |       |
| 08:40                      |                                                                       |                            |                           |                                |                                |       |
| 09:10                      |                                                                       |                            |                           |                                |                                |       |
| 09:40                      |                                                                       |                            |                           |                                |                                |       |
| 10:10                      |                                                                       |                            |                           |                                |                                |       |
| 10:40                      |                                                                       |                            |                           |                                |                                |       |
| 11:10                      |                                                                       |                            |                           |                                |                                |       |
| 11:40                      |                                                                       |                            |                           |                                |                                |       |
| 12:10                      |                                                                       |                            |                           |                                |                                |       |
| 12:40                      |                                                                       |                            |                           |                                |                                |       |
| 13:10                      |                                                                       |                            |                           |                                |                                |       |
| 13:40                      |                                                                       |                            |                           |                                |                                |       |
| 14:10                      |                                                                       |                            |                           |                                |                                |       |
| 14:40                      |                                                                       |                            |                           |                                |                                |       |
| 15:10                      |                                                                       |                            |                           |                                |                                |       |
| 15:40                      |                                                                       |                            |                           |                                |                                |       |
| 16:10                      |                                                                       |                            |                           |                                |                                |       |
| 16:40                      |                                                                       |                            |                           |                                |                                |       |
| 17:10                      |                                                                       |                            |                           |                                |                                |       |
| 17:40                      |                                                                       |                            |                           |                                |                                |       |
| 18:10                      |                                                                       |                            |                           |                                |                                |       |
| 18:40                      |                                                                       |                            |                           |                                |                                |       |
| 19:10                      |                                                                       |                            |                           |                                |                                |       |
| 19:40                      |                                                                       |                            |                           |                                |                                |       |
| 20:10                      |                                                                       |                            |                           |                                |                                |       |
| 20:40                      |                                                                       |                            |                           |                                |                                |       |
| 21:10                      |                                                                       |                            |                           |                                |                                |       |
| 21:40                      |                                                                       |                            |                           |                                |                                |       |
| 22:10                      |                                                                       |                            |                           |                                |                                |       |
| 22:40                      |                                                                       |                            |                           |                                |                                |       |
| 23:10                      |                                                                       |                            |                           |                                |                                |       |
| 23:40                      |                                                                       |                            |                           |                                |                                |       |
| 00:10                      |                                                                       |                            |                           |                                |                                |       |
| 00:40                      |                                                                       |                            |                           |                                |                                |       |
| 01:10                      |                                                                       |                            |                           |                                |                                |       |
| 01:40                      |                                                                       |                            |                           |                                |                                |       |
| 02:10                      |                                                                       |                            |                           |                                |                                |       |
| 02:40                      |                                                                       |                            |                           |                                |                                |       |
| 03:10                      |                                                                       |                            |                           |                                |                                |       |
| 03:40                      |                                                                       |                            |                           |                                |                                |       |
| 04:10                      |                                                                       |                            |                           |                                |                                |       |
| 04:40                      |                                                                       |                            |                           |                                |                                |       |
| 05:10                      |                                                                       |                            |                           |                                |                                |       |
| 05:40                      |                                                                       |                            |                           |                                |                                |       |
| 06:10                      |                                                                       |                            |                           |                                |                                |       |
| 06:40                      |                                                                       |                            |                           |                                |                                |       |
| 07:10                      |                                                                       |                            |                           |                                |                                |       |
| 07:40                      |                                                                       |                            |                           |                                |                                |       |
| 08:10                      |                                                                       |                            |                           |                                |                                |       |
| 08:40                      |                                                                       |                            |                           |                                |                                |       |
| 09:10                      |                                                                       |                            |                           |                                |                                |       |
| 09:40                      |                                                                       |                            |                           |                                |                                |       |
| 10:10                      |                                                                       |                            |                           |                                |                                |       |
| 10:40                      |                                                                       |                            |                           |                                |                                |       |
| 11:10                      |                                                                       |                            |                           |                                |                                |       |
| 11:40                      |                                                                       |                            |                           |                                |                                |       |
| 12:10                      |                                                                       |                            |                           |                                |                                |       |
| 12:40                      |                                                                       |                            |                           |                                |                                |       |
| 13:10                      |                                                                       |                            |                           |                                |                                |       |
| 13:40                      |                                                                       |                            |                           |                                |                                |       |
| 14:10                      |                                                                       |                            |                           |                                |                                |       |
| 14:40                      |                                                                       |                            |                           |                                |                                |       |
| 15:10                      |                                                                       |                            |                           |                                |                                |       |
| 15:40                      |                                                                       |                            |                           |                                |                                |       |
| 16:10                      |                                                                       |                            |                           |                                |                                |       |
| 16:40                      |                                                                       |                            |                           |                                |                                |       |
| 17:10                      |                                                                       |                            |                           |                                |                                |       |
| 17:40                      |                                                                       |                            |                           |                                |                                |       |
| 18:10                      |                                                                       |                            |                           |                                |                                |       |
| 18:40                      |                                                                       |                            |                           |                                |                                |       |
| 19:10                      |                                                                       |                            |                           |                                |                                |       |
| 19:40                      |                                                                       |                            |                           |                                |                                |       |
| 20:10                      |                                                                       |                            |                           |                                |                                |       |
| 20:40                      |                                                                       |                            |                           |                                |                                |       |
| 21:10                      |                                                                       |                            |                           |                                |                                |       |
| 21:40                      |                                                                       |                            |                           |                                |                                |       |
| 22:10                      |                                                                       |                            |                           |                                |                                |       |
| 22:40                      |                                                                       |                            |                           |                                |                                |       |
| 23:10                      |                                                                       |                            |                           |                                |                                |       |
| 23:40                      |                                                                       |                            |                           |                                |                                |       |
| 00:10                      |                                                                       |                            |                           |                                |                                |       |
| 00:40                      |                                                                       |                            |                           |                                |                                |       |
| 01:10                      |                                                                       |                            |                           |                                |                                |       |
| 01:40                      |                                                                       |                            |                           |                                |                                |       |
| 02:10                      |                                                                       |                            |                           |                                |                                |       |
| 02:40                      |                                                                       |                            |                           |                                |                                |       |
| 03:10                      |                                                                       |                            |                           |                                |                                |       |
| 03:40                      |                                                                       |                            |                           |                                |                                |       |
| 04:10                      |                                                                       |                            |                           |                                |                                |       |
| 04:40                      |                                                                       |                            |                           |                                |                                |       |
| 05:10                      |                                                                       |                            |                           |                                |                                |       |
| 05:40                      |                                                                       |                            |                           |                                |                                |       |
| 06:10                      |                                                                       |                            |                           |                                |                                |       |
| 06:40                      |                                                                       |                            |                           |                                |                                |       |
| 07:10                      |                                                                       |                            |                           |                                |                                |       |
| 07:40                      |                                                                       |                            |                           |                                |                                |       |
| 08:10                      |                                                                       |                            |                           |                                |                                |       |
| 08:40                      |                                                                       |                            |                           |                                |                                |       |
| 09:10                      |                                                                       |                            |                           |                                |                                |       |
| 09:40                      |                                                                       |                            |                           |                                |                                |       |
| 10:10                      |                                                                       |                            |                           |                                |                                |       |
| 10:40                      |                                                                       |                            |                           |                                |                                |       |
| 11:10                      |                                                                       |                            |                           |                                |                                |       |
| 11:40                      |                                                                       |                            |                           |                                |                                |       |
| 12:10                      |                                                                       |                            |                           |                                |                                |       |
| 12:40                      |                                                                       |                            |                           |                                |                                |       |
| 13:10                      |                                                                       |                            |                           |                                |                                |       |
| 13:40                      |                                                                       |                            |                           |                                |                                |       |
| 14:10                      |                                                                       |                            |                           |                                |                                |       |
| 14:40                      |                                                                       |                            |                           |                                |                                |       |
| 15:10                      |                                                                       |                            |                           |                                |                                |       |
| 15:40                      |                                                                       |                            |                           |                                |                                |       |
| 16:10                      |                                                                       |                            |                           |                                |                                |       |
| 16:40                      |                                                                       |                            |                           |                                |                                |       |
| 17:10                      |                                                                       |                            |                           |                                |                                |       |
| 17:40                      |                                                                       |                            |                           |                                |                                |       |
| 18:10                      |                                                                       |                            |                           |                                |                                |       |
| 18:40                      |                                                                       |                            |                           |                                |                                |       |
| 19:10                      |                                                                       |                            |                           |                                |                                |       |
| 19:40                      |                                                                       |                            |                           |                                |                                |       |
| 20:10                      |                                                                       |                            |                           |                                |                                |       |
| 20:40                      |                                                                       |                            |                           |                                |                                |       |
| 21:10                      |                                                                       |                            |                           |                                |                                |       |
| 21:40                      |                                                                       |                            |                           |                                |                                |       |
| 22:10                      |                                                                       |                            |                           |                                |                                |       |
| 22:40                      |                                                                       |                            |                           |                                |                                |       |
| 23:10                      |                                                                       |                            |                           |                                |                                |       |
| 23:40                      |                                                                       |                            |                           |                                |                                |       |
| 00:10                      |                                                                       |                            |                           |                                |                                |       |
| 00:40                      |                                                                       |                            |                           |                                |                                |       |
| 01:10                      |                                                                       |                            |                           |                                |                                |       |
| 01:40                      |                                                                       |                            |                           |                                |                                |       |
| 02:10                      |                                                                       |                            |                           |                                |                                |       |
| 02:40                      |                                                                       |                            |                           |                                |                                |       |
| 03:10                      |                                                                       |                            |                           |                                |                                |       |
| 03:40                      |                                                                       |                            |                           |                                |                                |       |
| 04:10                      |                                                                       |                            |                           |                                |                                |       |
| 04:40                      |                                                                       |                            |                           |                                |                                |       |
| 05:10                      |                                                                       |                            |                           |                                |                                |       |
| 05:40                      |                                                                       |                            |                           |                                |                                |       |
| 06:10                      |                                                                       |                            |                           |                                |                                |       |
| 06:40                      |                                                                       |                            |                           |                                |                                |       |
| 07:10                      |                                                                       |                            |                           |                                |                                |       |
| 07:40                      |                                                                       |                            |                           |                                |                                |       |
| 08:10                      |                                                                       |                            |                           |                                |                                |       |
| 08:40                      |                                                                       |                            |                           |                                |                                |       |
| 09:10                      |                                                                       |                            |                           |                                |                                |       |
| 09:40                      |                                                                       |                            |                           |                                |                                |       |
| 10:10                      |                                                                       |                            |                           |                                |                                |       |
| 10:40                      |                                                                       |                            |                           |                                |                                |       |
| 11:10                      |                                                                       |                            |                           |                                |                                |       |
| 11:40                      |                                                                       |                            |                           |                                |                                |       |
| 12:10                      |                                                                       |                            |                           |                                |                                |       |
| 12:40                      |                                                                       |                            |                           |                                |                                |       |
| 13:10                      |                                                                       |                            |                           |                                |                                |       |
| 13:40                      |                                                                       |                            |                           |                                |                                |       |
| 14:10                      |                                                                       |                            |                           |                                |                                |       |
| 14:40                      |                                                                       |                            |                           |                                |                                |       |
| 15:10                      |                                                                       |                            |                           |                                |                                |       |
| 15:40                      |                                                                       |                            |                           |                                |                                |       |
| 16                         |                                                                       |                            |                           |                                |                                |       |

## Day 3

| Day3 24th (Thursday) |                                                                                 |                           |                                     |                                    |                          |       |
|----------------------|---------------------------------------------------------------------------------|---------------------------|-------------------------------------|------------------------------------|--------------------------|-------|
| Time                 | Lecture Hall A                                                                  | Lecture Hall B            | Lecture Room C                      | Lecture Room D                     | Lecture Room E           | Time  |
| 09:00                | 3P01 Ling-dong Sun                                                              |                           | Closed at AM                        |                                    |                          |       |
| 10:00                | 3P02 Xiaogang Liu                                                               |                           |                                     |                                    |                          |       |
| 11:00                | Coffee Break (20 min)                                                           |                           |                                     |                                    |                          |       |
| 11:20                | Eva Hemmer (3A01)                                                               | Miki Hasegawa (3B01)      |                                     |                                    |                          |       |
| 11:50                | ★Lunch Break (11:50~13:50)                                                      |                           |                                     |                                    |                          |       |
| 12:20                | ★Lunch Break & Poster Session III (12:20~13:30)<br>Yoshida Cafeteria & HES-Base |                           |                                     |                                    |                          |       |
| 13:50                | Walking to Session Rooms                                                        |                           |                                     |                                    |                          |       |
| 14:00                | Philippe Smet (3A02)                                                            | Satoshi Horike (3B02)     | Malgorzata Elzbieta Guzik (3C01)    | Duong Pham Thuy (3D01)             | Yuriy Zorenko (3E01)     | 14:00 |
| 14:30                | Jumpei Ueda (3A03)                                                              | Yasuchika Hasegawa (3B03) | Natalia Majewska (3C02)             | Helene Serier-Brault (3D02)        | Herbert Kindl (3E02)     | 14:20 |
| 15:00                | Ryota Kabe (3A04)                                                               | Muralee Murugesu (3B04)   | Maël Plouet (3C03)                  | Lisa Guibbert (3D03)               | Frantisek Zajic (3E03)   | 14:40 |
| 15:30                | Gabriel Lozano (3A05)                                                           | Shun Omagari (3B05)       | Gaston Lozano Calderón (3C04)       | Encarnacion Arroyo (3D04)          | Elena Iraê Santos (3E04) | 15:00 |
| 15:50                | Yuuki Kitagawa (3A06)                                                           |                           | Marta Dominika Górcel-Wójcik (3C05) | Leonardo Saraiva (3D05)            | Rowan Schokkaert (3E05)  | 15:20 |
|                      |                                                                                 | Wai-Yeung Wong (3B06)     | Margarita Samoli (3C06)             | Ramon Raposo Filho (3D06)          | Hisato Suezumi (3E06)    | 15:40 |
| 16:20                |                                                                                 |                           | Gérard Panczer (3C07)               |                                    | Vojtech Vanecek (3E07)   | 16:00 |
|                      | Coffee Break (20 min)                                                           |                           |                                     |                                    |                          |       |
| 16:40                | Martin Nikl (3A07)                                                              | Carlos D.S. Brites (3B07) | Damien Boyer (3C08)                 | Karolina Elzbieciak-Piecka (3D08)  | Victor Castaing (3E08)   | 16:40 |
| 17:10                | Takayuki Yanagida (3A08)                                                        | Andrea Pickel (3B08)      | Maryia Shymanovich (3C09)           | Bruno Seiki Domingos Onishi (3D09) | Verena Fritz (3E09)      | 17:00 |
|                      |                                                                                 |                           | Vasilii Khanin (3C10)               | Victor Fuertes de la Llave (3D10)  | Nameeta Brahme (3E10)    | 17:20 |
| 17:40                | Chao-Yu Peter Chen (3A09)                                                       | Lukasz Marciniak (3B09)   | Sudipta Som (3C11)                  | Oksana Chukova (3D11)              | Tomoki Uchiyama (3E11)   | 17:40 |
| 18:00                | Rute AS Ferreira (3A10)                                                         | Szymon Chorazy (3B10)     | Chitrkant Belodhiya (3C12)          | Ningombam Yaiphaba (3D12)          | Jan Moszczyński (3E12)   | 18:00 |
| 18:20                | Parivash Moradifar (3A11)                                                       | Eugeniusz Zych (3B11)     | Lauro June Queiroz Maia (3C13)      |                                    | Alexia Rocheteau (3E13)  | 18:20 |
| 18:50                | Walking to Poster Venue (Base of Human and Environmental bldg.)                 |                           |                                     |                                    |                          |       |
|                      | ★Poster Session IV (18:50~20:00)                                                |                           |                                     |                                    |                          |       |
| 20:00                |                                                                                 |                           |                                     |                                    |                          |       |

# Day 4

| Day4 Sep. 25th (Friday) |                                                               |                                |                                 |                                 |                                      |                             |
|-------------------------|---------------------------------------------------------------|--------------------------------|---------------------------------|---------------------------------|--------------------------------------|-----------------------------|
| Time                    | Lecture Hall A                                                | Lecture Hall B                 | Lecture Room C                  | Lecture Room D                  | Lecture Room E                       | Time                        |
| 09:00                   | Rogéria Rocha Gonçalves (4A01)                                | Akio Ikesue (4B01)             | Neilo Marcos Trindade (4C01)    | Lilia Courrol (4D01)            | Fiindje Elias Muliokela Elago (4E01) | 09:00                       |
|                         |                                                               |                                | Caio Morelli                    | Yasushi                         | Shivakumara C (4E02)                 | 09:20                       |
| 09:30                   | Erving Ximendes (4A02)                                        | Jianrong Qiu (4B02)            | Vicentini (4C02)                | Hamanaka (4D02)                 |                                      | 09:40                       |
|                         |                                                               |                                | Makaiko                         | Maria Chamarro (4D03)           | S Masilla Moses Kennedy (4E03)       | 09:40                       |
| 10:00                   | Riccardo Marin (4A03)                                         | Angela Beth Seddon (4B03)      | Chithambo (4C03)                |                                 |                                      | 10:00                       |
|                         |                                                               |                                | Kishor Hanumant Gavhane (4C04)  | Vincent R.M. Benning (4D04)     |                                      | 10:00                       |
| 10:30                   | Coffee Break (20 min)                                         |                                |                                 |                                 |                                      | 10:30                       |
| 10:50                   | Dagmara Stefanowska (4A04)                                    | Andréa S. S. de Camargo (4B04) | Dariusz Hreniak (4C05)          | Dagmara Stefańska (4D05)        | Jakub J. Zakrzewski (4E04)           | 10:50                       |
| 11:10                   | Mathias Wickleder (4A05)                                      |                                |                                 | Guna Doke (4C06)                | Mariusz Stefanski (4D06)             | David Jan van Gerven (4E05) |
| 11:30                   | Kenji Toda (4A06)                                             | Marcelo Nalin (4B05)           | Piotr Kuich (4C07)              | Tjom Arens (4D07)               | Silvia Ruggieri (4E06)               | 11:30                       |
| 11:50                   |                                                               | Shunsuke Murai (4B06)          | Federico Locardi (4C08)         | Julio Corredoira Vázquez (4D08) | Raj Kishore Das (4E07)               | 11:50                       |
| 12:10                   | ★Lunch Break (12:10~13:10)<br>Yoshida Cafeteria               |                                |                                 |                                 |                                      | 12:10                       |
| 13:10                   | Michele Back (4A07)                                           | Pablo Acosta Mora (4B07)       | Ying Lv (4C09)                  | Ian Pompermayer Machado (4D09)  | Gaël Ung (4E08)                      | 13:10                       |
|                         |                                                               |                                | Taisei Hangai (4C10)            | Justyna Anna Zeler (4D10)       | Aleksander Hoffman (4E09)            | 13:30                       |
| 13:40                   | Sebastian Mahlik (4A08)                                       | Bruno Viana (4B08)             | Yunsang Lee (4C11)              | Zoran Ristić (4D11)             | Nikita Madhukar (4E10)               | 13:50                       |
|                         |                                                               |                                | Sangwon Wi (4C12)               | Araceli de Aquino Samper (4D12) | Kinga Szczecinska (4E11)             | 14:10                       |
| 14:10                   | Victor Lavin (4A09)                                           | Masayoshi Mikami (4B09)        | José Miranda de Carvalho (4C13) | Liyan Ming (4D13)               | Przemysław Woźny (4E12)              | 14:30                       |
| 14:40                   | Hubert Huppertz (4A10)                                        | Xueyuan Chen (4B10)            | Nagabhushana K.R. (4C14)        | Maja Szymczak (4D14)            | Lada Puntus (4E13)                   | 14:50                       |
|                         |                                                               |                                |                                 |                                 |                                      |                             |
| 15:10                   | Coffee Break (20 min)                                         |                                |                                 |                                 |                                      | 15:10                       |
| 15:30                   | Dawei Di (4A11)                                               | Chao-Nan Xu (4B11)             | Celina Matuszewska (4C15)       | Steve Smith (4D15)              | Moritz Justus Dango (4E14)           | 15:30                       |
|                         |                                                               |                                | Jianhua Liu (4C16)              | Arjun Babu (4D16)               | Andrei V Racu (4E15)                 | 15:50                       |
| 16:00                   | Yunqi Liu (4A12)                                              | Yuichi Hirai (4B12)            | Andris Antuzevics (4C17)        | Disnel Ferrera (4D17)           | Sacha Welinski (4E16)                | 16:10                       |
|                         |                                                               |                                | Ana Rita Bastos (4C18)          | Valentina V Utochnikova (4D18)  | Abdelrhman Yousif Mohmmmed (4E17)    | 16:30                       |
| 16:30                   | Anna Painelli (4A13)                                          | Marcin Runowski (4B14)         | Joseph Schuyt (4C19)            |                                 | Nataliya Krutyak (4E18)              | 16:50                       |
| 17:00                   | Niko Hildebrandt (4A14)                                       | Tim van Driel (4B15)           | Manuel Romero (4C20)            |                                 |                                      | 17:10                       |
|                         |                                                               |                                |                                 |                                 |                                      |                             |
| 17:30                   | Moving to Hotel Okura Kyoto                                   |                                |                                 |                                 |                                      | 17:30                       |
| 18:30                   | Banquet & Award Ceremony (Hotel Okura Kyoto)<br>(18:30~22:00) |                                |                                 |                                 |                                      |                             |
| 22:00                   |                                                               |                                |                                 |                                 |                                      |                             |

## Day 5

| Day5 Sep. 26th (Saturday) |                                                 |                                   |                                    |                                          |                                    |
|---------------------------|-------------------------------------------------|-----------------------------------|------------------------------------|------------------------------------------|------------------------------------|
| Time                      | Lecture Hall A                                  | Lecture Hall B                    | Lecture Room C                     | Lecture Room D                           | Lecture Room E                     |
| 09:00                     |                                                 |                                   |                                    |                                          |                                    |
| 09:20                     | Jose Marques-Hueso<br>(5A01)                    | Luiz G. Jacobsohn<br>(5B01)       |                                    | Shuai Zhang<br>(5D01)                    |                                    |
| 09:40                     | Agnieszka Siomra<br>(5A02)                      | Kei Kamada<br>(5B02)              | Leonnarn Gotardo<br>Merizio (5C01) | Abinaya Mayavan<br>(5D02)                |                                    |
| 10:00                     | Ling Huang<br>(5A03)                            | Mamoru Kitaura<br>(5B03)          | Kacper Albin<br>Prokop (5C02)      | Tripti Richhariya<br>(5D03)              |                                    |
| 10:20                     | Coffee Break (20 min)                           |                                   |                                    |                                          |                                    |
| 10:40                     | Fabio Piccinelli<br>(5A04)                      | Seiya Shimono<br>(5B04)           | Everton Bonturim<br>(5C03)         | Kanchan Tiwari<br>(5D04)                 | Alessandra Garbosa<br>Mutti (5E01) |
| 11:00                     | Min Ying Tsang<br>(5A05)                        | Antonio Benayas<br>(5B05)         | Koki Tanabe<br>(5C04)              | Akesh Kumar<br>(5D05)                    | Natalia Ochoa<br>(5E02)            |
| 11:20                     | David Hernández Pinilla<br>(5A06)               | Carlos Jacinto da Silva<br>(5B06) | Sandra FH Correia<br>(5C05)        | Yogesh Dattatray<br>Kale (5D06)          | Run Zhang<br>(5E03)                |
| 11:40                     | Maxime Delaey<br>(5A07)                         | Praveen Chandra<br>Pandey (5B07)  | Bartosz Bondzior<br>(5C06)         | Trilokkumar Bharatkumar<br>Akhani (5D07) | Tomasz Grzyb<br>(5E04)             |
| 12:00                     | ★Lunch Break (12:00~13:00)<br>Yoshida Cafeteria |                                   |                                    |                                          |                                    |
| 12:30                     |                                                 |                                   |                                    |                                          |                                    |
| 13:00                     | George Blasse Award<br>Lecture 1                |                                   | Closed at PM                       |                                          |                                    |
| 13:40                     |                                                 |                                   |                                    |                                          |                                    |
| 14:20                     | Coffee Break (20 min)                           |                                   |                                    |                                          |                                    |
| 14:40                     | ICL Prize Lecture                               |                                   |                                    |                                          |                                    |
|                           |                                                 |                                   |                                    |                                          |                                    |
|                           |                                                 |                                   |                                    |                                          |                                    |
|                           |                                                 |                                   |                                    |                                          |                                    |
| 15:40                     | Moving to Lecture Hall A                        |                                   |                                    |                                          |                                    |
| 15:50                     | Closing Ceremony<br>(Announce Next ICL)         | Closed                            |                                    |                                          |                                    |
| 16:20                     | Farewell                                        |                                   |                                    |                                          |                                    |

## Day 6

| Day6 Sep. 27th (Sunday)                              |  |
|------------------------------------------------------|--|
| ★Excursion (Mt. Hiei) 9:00~15:00<br>(Group Bus Tour) |  |



# Program

■ September 22 (Tue)

Plenary

Venue: Clock Tower Centennial Hall (Yoshida Campus)

**Plenary** *Chair: Yoichi Kawakami*

16:00 - 17:00  
(1P-01) AlN-Based Deep-UV Laser Diodes: A New Frontier in Luminescence Science and Engineering  
\*Hiroshi Amano<sup>1,2</sup>, Akira Yoshikawa<sup>2,1</sup>, Ziyi Zhang<sup>2,1</sup>, Maki Kushimoto<sup>1,2</sup>  
<sup>1</sup> Nagoya Univ.(Japan)  
<sup>2</sup> Ultec Inc.(Japan)

**Plenary** *Chair: Susumu Noda*

17:00 - 18:00  
(1P-02) White light sources based on nitride semiconductor light emitting devices and phosphors  
\*Takashi Mukai<sup>1</sup>  
<sup>1</sup> Nichia Corporation(Japan)

DAY 1

## ■ September 22 (Tue)

### Lecture Hall A

Venue: 3F of ILAS bldg.

#### **Spectroscopy** *Chair: Miki Hasegawa*

13:20 - 13:50

(1A-01) Sensitizing lanthanide luminescence

\*Jean-Claude Georges Bünzli<sup>1,2</sup>

<sup>1</sup> Ecole Polytechnique Federale de Lausanne (EPFL)(Switzerland)

<sup>2</sup> Hong Kong Polytechnic University(China)

13:50 - 14:20

(1A-02) Eu-doped GaN red LEDs: From breakthrough to innovation

\*Yasufumi Fujiwara<sup>1</sup>

<sup>1</sup> Ritsumeikan University(Japan)

#### **LED phosphor** *Chair: Yasufumi Fujiwara*

14:40 - 15:10

(1A-03) Unveiling halide perovskite photophysics through luminescence spectroscopy

\*Yoshihiko Kanemitsu<sup>1</sup>

<sup>1</sup> Kyoto University(Japan)

15:10 - 15:40

(1A-04) Exploration of phosphor focusing on single particle and local structure

\*Takashi Takeda<sup>1</sup>

<sup>1</sup> National Institute for Materials Science(Japan)

## ■ September 22 (Tue)

### Lecture Hall B

Venue: 3F of ILAS bldg.

#### Nanomaterial/Upconversion *Chair: Fiorenzo Vetrone*

13:20 - 13:50

(1B-01) The Whisper of Water: Density Rhythms Around Luminescent Nanoprobes

\*Luis Carlos<sup>1</sup>

<sup>1</sup> University of Aveiro(Portugal)

13:50 - 14:20

(1B-02) Photon avalanches in nanoparticles and the critical fluctuations that drive them

\*P James Schuck<sup>1</sup>, N Fardian-Melamed<sup>1</sup>, Y Karube<sup>1</sup>, C.-L. Chung<sup>1</sup>, A. Ray<sup>1</sup>, A. Alharmoodi<sup>1</sup>, V. Quiros Cordero<sup>1</sup>, L. Passini<sup>2</sup>, Y. Liu<sup>2</sup>, A. Skripka<sup>3</sup>, B. E. Cohen<sup>2</sup>, E. M. Chan<sup>2</sup>

<sup>1</sup> Columbia University(USA)

<sup>2</sup> Lawrence Berkeley National Lab(USA)

<sup>3</sup> Oregon State University(USA)

#### Nanomaterial/Upconversion *Chair: Luis Carlos*

14:40 - 15:10

(1B-03) Rare Earth-Based Nanoplatforms: From Luminescent Imaging to Theranostic Strategies in Nanomedicine

\*Fiorenzo Vetrone<sup>1</sup>

<sup>1</sup> INRS, Université du Québec, (Canada)

15:10 - 15:40

(1B-04) Engineering upconversion nanoparticles for imaging, sensing, and diagnostics

\*Jiajia Zhou<sup>1</sup>

<sup>1</sup> University of Technology Sydney(Australia)

■ September 23 (Wed)

Plenary

Venue: Lecture Hall A (3F of ILAS bldg.)

**Plenary** *Chair: Jumpei Ueda*

09:00 - 10:00  
(2P-01) Luminescence of Lanthanides in Water and Ice  
\*Andries Meijerink<sup>1</sup>  
<sup>1</sup> Utrecht University(Netherlands)

**Plenary** *Chair: Philippe Goldner*

10:00 - 11:00  
(2P-02) Photonic-Crystal Surface-Emitting Lasers (PCSELS) - Physics and Applications -  
\*Susumu Noda<sup>1</sup>  
<sup>1</sup> Kyoto University(Japan)

**Plenary** *Chair: Setsuhisa Tanabe*

11:20 - 12:20  
(2P-03) Advanced Organic Light-Emitting Diodes by Controlling Precise Charge Transfer Phenomena  
\*Chihaya Adachi<sup>1</sup>  
<sup>1</sup> Kyushu University(Japan)

## ■ September 23 (Wed)

### Lecture Hall A

Venue: 3F of ILAS bldg.

#### Spectroscopy *Chairs: Ru-Shi Liu, Jakoah Brgoch*

14:20 - 14:50

(2A-01) Shifting  $\text{Eu}^{2+}$  Emission Bands to low Energies

\*Claudia Wickleder<sup>1</sup>

<sup>1</sup> University of Siegen(Germany)

14:50 - 15:20

(2A-02) Crystal field theory, DFT and machine learning methods in application to optical materials

\*Mikhail G. Brik<sup>1,2,3,4</sup>

<sup>1</sup> University of Tartu(Estonia)

<sup>2</sup> Chongqing University of Posts and Telecommunications(China)

<sup>3</sup> Vinča Institute of Nuclear Sciences (Serbia)

<sup>4</sup> Jan Długosz University(Poland)

15:20 - 15:50

(2A-03) Nanophotonics to unravel the excited-state dynamics of lanthanides

\*Freddy Rabouw<sup>1</sup>, Sander Vonk<sup>1</sup>, Thomas van Swieten<sup>1</sup>, Tim Senden<sup>1</sup>, Tim Prins<sup>1</sup>, Andries Meijerink<sup>1</sup>

<sup>1</sup> Utrecht University(Netherlands)

15:50 - 16:20

(2A-04) Luminescent nanoparticles for advanced biomedical devices

\*Daniel Jaque Garcia<sup>1</sup>

<sup>1</sup> nanoBIG, Universidad Autónoma de Madrid(Spain)

#### LED phosphor *Chairs: Claudia Wickleder, Freddy Rabouw*

16:40 - 17:10

(2A-05) From Pairs to Clusters: Engineering *Chromium* Interactions in Blue-LED Excitable NIR Phosphors

\*Ru-Shi Liu<sup>1</sup>

<sup>1</sup> National Taiwan University(Taiwan)

17:10 - 17:40

(2A-06) Machine Learning as a Tool for Discovering  $\text{Cr}^{3+}$  NIR-Emitting Phosphors

\*Jakoah Brgoch<sup>1,2</sup>, Amit Kumar<sup>1,2</sup>

<sup>1</sup> University of Houston(USA)

<sup>2</sup> Texas Center for Superconductivity(USA)

17:40 - 18:10

(2A-07) Precise Refinement and Advanced Applications of NIR Emission Phosphors

\*Chun Che Lin<sup>1</sup>, Wan-Yun Chu<sup>1</sup>

<sup>1</sup> National Taipei University of Technology(Taiwan)

18:10 - 18:30

(2A-08) AI-Assisted Screening and Binder-Free Formation of Color Conversion Layers via Solvent-Tuned Plasticity in Lead-Free Manganese Halides

\*Won Bin Im<sup>1</sup>

<sup>1</sup> Hanyang Univerisity(Korea)

## ■ September 23 (Wed)

### Lecture Hall B

Venue: 3F of ILAS bldg.

#### Quantum photonics *Chairs: Andries Meijerink, Michael F Reid*

14:20 - 14:50

(2B-01) Rare earth doped thin films for optical quantum technologies

\*Philippe Goldner<sup>1</sup>

<sup>1</sup> PSL University/CNRS(France)

14:50 - 15:20

(2B-02) Direct Observation of Optical Pathways in Distorted Photonic Crystals

\*Kyoko Kitamura<sup>1</sup>

<sup>1</sup> TOHOKU University(Japan)

15:20 - 15:50

(2B-03) Engineering Luminescence Dynamics via Plasmonics and Nanophotonics with Collective Effects

\*Koichi Okamoto<sup>1</sup>

<sup>1</sup> Osaka Metropolitan University(Japan)

15:50 - 16:20

(2B-04) Engineering strong optical transitions in europium-doped CaF<sub>2</sub> nanoparticles for quantum technologies

Michael D Moull<sup>1</sup>, Diana Serrano<sup>2</sup>, Philippe Goldner<sup>2</sup>, Nicholas L Jobbitt<sup>3</sup>, Evgenij Vasilenko<sup>3</sup>, Vishum Unni Chorakkunnath<sup>3</sup>, David Hunger<sup>3</sup>, Jamin LB Martin<sup>1</sup>, Vladimir Golovko<sup>1</sup>, Jon-Paul Wells<sup>1</sup>, \*Michael F Reid<sup>1</sup>

<sup>1</sup> University of Canterbury(New Zealand)

<sup>2</sup> Chemie ParisTech(France)

<sup>3</sup> Karlsruhe Institute of Technology(Germany)

#### Nanomaterial/Upconversion *Chairs: Xiaogang Liu, Bruno Viana*

16:40 - 17:10

(2B-05) Deep-tissue Decoding Biological Complexity: NIR Fluorescent Probes for Dynamic Multiplexed Imaging In Vivo

\*Fan Zhang<sup>1</sup>

<sup>1</sup> Fudan University(China)

17:10 - 17:40

(2B-06) Photon Avalanche emission for novel sensing and imaging

\*Artur Bednarkiewicz<sup>1</sup>, Malgorzata Misiak<sup>1</sup>, Katarzyna Prorok<sup>1</sup>, Grzegorz Bekarski<sup>1</sup>

<sup>1</sup> Institute of Low Temperature and Structure Research, Polish Academy of Sciences(Poland)

17:40 - 18:10

(2B-07) Optical properties of organic-inorganic hybrid superlattice ZnTe(en)<sub>0.5</sub> with ultra-thin ZnTe sheets

\*Yong Zhang<sup>1</sup>

<sup>1</sup> University of North Carolina at Charlotte(USA)

18:10 - 18:30

(2B-08) Excitation density dependence of time-resolved spectra of multiexciton superfluorescence from CuCl quantum dots

\*Kensuke Miyajima<sup>1</sup>, Gen Fujioka<sup>1</sup>, Akira Ishikawa<sup>2</sup>

<sup>1</sup> Tokyou University of Science(Japan)

<sup>2</sup> Univresity of Yamanashi(Japan)

## ■ September 23 (Wed)

### Room C

Venue: Center bldg. South-wing Rm11

#### LED phosphor *Chairs: Won Bin Im, Chun Che Lin*

14:20 - 14:40

(2C-01) SWIR-to-SWIR Light Conversion through Lanthanide–Transition Metal Synergy

\*Andrey Turshatov<sup>1</sup>

<sup>1</sup> Karlsruhe Institute of Technology (Germany)

14:40 - 15:00

(2C-02) High-Pressure effects on NIR-II luminescence of Ni<sup>2+</sup>

\*Mikołaj Kamiński<sup>1</sup>, Mu-Huai Fang<sup>2</sup>, Sebastian Mahlik<sup>1</sup>

<sup>1</sup> Institute of Experimental Physics, University of Gdansk(Poland)

<sup>2</sup> Research Center for Applied Sciences, Academia Sinica(Taiwan)

15:00 - 15:20

(2C-03) Tunable Near-Infrared Emission via Crystal Field Engineering in Blue-Excitable In<sup>3+</sup>-Substituted Phosphors

\*Yu Chieh Huang<sup>1</sup>, Ru Shi Liu<sup>1</sup>

<sup>1</sup> National Taiwan University (Taiwan)

15:20 - 15:40

(2C-04) Ligand Field Modulation in Cr<sup>3+</sup>-activated Oxides: Pathways to Broadband NIR Luminescence

\*Maximilian Stremel<sup>1</sup>, Markus Suta<sup>1</sup>

<sup>1</sup> Heinrich-Heine-University Düsseldorf(Germany)

15:40 - 16:00

(2C-05) Decoupling Crystal Field Strength from Cr<sup>3+</sup> Emission in Sulfide Phosphors through Low-Phonon-Enabled Emission Stability and Phase-Boundary Disorder

\*Wan-Yun Chu<sup>1</sup>, Jiguang Li<sup>3</sup>, Daiming Tang<sup>4,5</sup>, Takayuki Nakanishi<sup>3</sup>, Chun Che Lin<sup>1,2</sup>

<sup>1</sup> Institute of Organic and Polymeric Materials, National Taipei University of Technology, Taipei 106(Taiwan)

<sup>2</sup> Research and Development Center for Smart Textile Technology, National Taipei University of Technology, Taipei 106(Taiwan)

<sup>3</sup> Research Center for Electronic and Optical Materials, National Institute for Materials Science (NIMS), Tsukuba 305-0044(Japan)

<sup>4</sup> Research Center for Materials Nanoarchitectonics (MANA), National Institute for Materials Science (NIMS), Tsukuba 305-0044(Japan)

<sup>5</sup> Institute of Pure and Applied Sciences, University of Tsukuba, Tsukuba 305-8571(Japan)

16:00 - 16:20

(2C-06) Mechanism of new type of sunlight-converter for plant growth and solar cell

\*Takatoshi Seto<sup>1</sup>

<sup>1</sup> School of Materials and Energy, Lanzhou University(China)

#### Spectroscopy *Chairs: Kenji Toda, Dagmara Stefanowska*

16:40 - 17:00

(2C-07) *Redefining precision in rare-earth spectroscopy: Beyond classical Judd-Ofelt theory*

\*Jan Hrabovsky<sup>1,2</sup>, Petr Varak<sup>3</sup>, Robin Krystufek<sup>4</sup>

<sup>1</sup> FZU - institute of Physics, Czech Academy of Sciences, Prague, Czech Republic(Czech Republic)

<sup>2</sup> Faculty of Mathematics and Physics, Charles University, Prague, Czech Republic(Czech Republic)

<sup>3</sup> Dep. of Inorganic Chemistry, University of Chemistry and Technology, Prague, Czech Republic(Czech Republic)

<sup>4</sup> Institute of Organic Chemistry and Biochemistry of the CAS, Prague 6 16610, Czech Republic(Czech Republic)

17:00 - 17:20

(2C-08) Influence of Charge Transfer States on Non-Radiative Relaxation Pathways in  $REF[WO_4]:Eu^{3+}$

\*Priya Pandey<sup>1</sup>, B. Knies<sup>2</sup>, I. Hartenbach<sup>2</sup>, M. Suta<sup>1</sup>

<sup>1</sup> Heinrich Heine University Düsseldorf(Germany)

<sup>2</sup> University of Stuttgart(Germany)

17:20 - 17:40

(2C-09) Spectroscopic and Temperature-Dependent Luminescence Properties of Pr<sup>3+</sup>-Activated Fluoride Crystals

\*Karolina Kowalska<sup>1</sup>, Eugeniusz Zych<sup>1</sup>

<sup>1</sup> Faculty of Chemistry, University of Wrocław(Poland)

17:40 - 18:00

(2C-10) High tunability of green and red emission in Pr-doped  $\text{LaYO}_3$

\*Federico Gonzalez<sup>1</sup>, Ana Karina Elizalde-Galicia<sup>1</sup>, Rosalba Carrera-Peralta<sup>1</sup>, German Lopez-Pacheco<sup>1</sup>

<sup>1</sup> Universidad Autonoma Metropolitana-Iztapalapa(Mexico)

18:00 - 18:20

(2C-11) Insights into  $\text{Ce}^{4+}$  Charge-Transfer Luminescence and  $\text{Ce}^{4+}\text{--Yb}^{3+}$  Energy Transfer in  $\text{Ca}_2\text{SnO}_4$

\*Henry Kwan<sup>1</sup>, Maren de Jong<sup>1</sup>, Erik van der Kolk<sup>1</sup>

<sup>1</sup> TU Delft(Netherlands)

18:20 - 18:40

(2C-12) Novel bright UV-C phosphors on the basis of  $\text{Lu}_{1-x}\text{Sc}_x\text{PO}_4$  solid solution

\*Dmitry Spassky<sup>1</sup>, Irina Kudryavtseva<sup>1</sup>, Vitali Nagirnyi<sup>1</sup>, Leonid Dolgov<sup>1</sup>, Artur Tamm<sup>1</sup>

<sup>1</sup> Institute of Physics, University of Tartu(Estonia)

## ■ September 23 (Wed)

### Room D

Venue: Center bldg. West-wing

#### Nanomaterial/Upconversion *Chairs: Fan Zhang, Artur Bednarkiewicz*

14:20 - 14:40

(2D-01) The cause and quantification of elemental migration in lanthanide-doped core—shell nanocrystals

\*Ayla J.H. Dekker<sup>1</sup>, Vincent R.M. Benning<sup>1</sup>, Andries Meijerink<sup>1</sup>, Freddy T. Rabouw<sup>1</sup>

<sup>1</sup> Utrecht Univ.(Netherlands)

14:40 - 15:00

(2D-02) Polymer-functionalized UCNPs for rapid luminescence lifetime-based sensing

\*Emilia Wakulska<sup>1</sup>, Wojciech Piotrowski<sup>1</sup>, Dominika Wawrzyńczyk<sup>1</sup>, Urszula Bazylińska<sup>1</sup>

<sup>1</sup> Wrocław University of Science and Technology(Poland)

15:00 - 15:20

(2D-03) Coupling plasmonic effects and host matrix polarizability for luminescence modulation

\*Gabriel Moronari<sup>1</sup>, Tamires M. Oliveira<sup>1</sup>, Paulo Cesar de Sousa Filho<sup>1</sup>

<sup>1</sup> University of Campinas(Brazil)

15:20 - 15:40

(2D-04) Multifunctional Magnetic–Luminescent Hybrid Ink with Dual Upconversion and Downshifting Emission for Anti-Counterfeiting Technologies

\*Ana Maria Pires<sup>1,2</sup>, André Lucas Costa<sup>1,2</sup>, Caique Moureira Tavares<sup>1,2</sup>, Leonardo Figueiredo Saraiva<sup>1,2</sup>, Airton Germano Bispo Júnior<sup>3</sup>, Sergio Antonio Marques Lima<sup>1,2</sup>, Flavia Artizzu<sup>4</sup>, Camilo Rúben Segura Paredes<sup>5</sup>

<sup>1</sup> Chemistry and Biochemistry Department, São Paulo State University (Unesp), School of Technology and Sciences, Presidente Prudente(Brazil)

<sup>2</sup> São Paulo State University (Unesp), Institute of Biosciences, Humanities and Exact Sciences, São José do Rio Preto (Brazil)

<sup>3</sup> University of São Paulo (USP), São Paulo(Brazil)

<sup>4</sup> University of Piemonte Orientale "Amedeo Avogadro", Vercelli(Italy)

<sup>5</sup> University of Chile (UCHile)(Chile)

15:40 - 16:00

(2D-05) In vivo glioblastoma detection using near-infrared autofluorescence imaging

\*Fernando Eduardo Maturi<sup>1</sup>, Qi Zhao<sup>1</sup>, Erving Ximendes<sup>1</sup>, Daniel Jaque<sup>1</sup>

<sup>1</sup> Nanomaterials for Bioimaging Group, Materials Physics Department, Faculty of Science, Autonomous University of Madrid(Spain)

#### Semiconductor *Chairs: Kyoko Kitamura, Koichi Okamoto*

16:40 - 17:00

(2D-06) Geometry-Dependent Threshold Regimes in Planar Thin-Film Lasers

\*Racha Akrou<sup>1,2</sup>, Hong Hai Nguyen<sup>1,2</sup>, Karim Elkhoul<sup>1</sup>, Iakov Goldberg<sup>1</sup>, Paul Heremans<sup>1,2</sup>, Robert Gehlhaar<sup>1</sup>, Jan Genoe<sup>1,2</sup>

<sup>1</sup> IMEC(Belgium)

<sup>2</sup> KU Leuven(Belgium)

17:00 - 17:20

(2D-07) Towards Bright Topological Lasers

\*Ariel Levenson<sup>2</sup>, Amina Saadani<sup>1,2</sup>, Keneth Syddall<sup>1</sup>, Kaiwen Ji<sup>1</sup>, Melissa Hedir<sup>2</sup>, Kamel Bencheikh<sup>2</sup>, Alejandro Yacomotti<sup>1</sup>

<sup>1</sup> LP2N(France)

<sup>2</sup> C2N - CNRS(France)

17:20 - 17:40

(2D-08) Experimental Study of Layer-Number-Dependent Enhancement of Radiative Decay Rates in GaAs Multiple Quantum Wells

\*Koki Hayashi<sup>1</sup>, Takuya Matsuda<sup>1,2</sup>, Masaya Nagai<sup>1</sup>, Norihiko Sekine<sup>3</sup>, Hajime Ishihara<sup>4</sup>, Masaaki Ashida<sup>1</sup>

<sup>1</sup> The University of Osaka(Japan)

<sup>2</sup> Osaka Metropolitan University(Japan)

<sup>3</sup> National Institute of Information and Communications Technology(Japan)

<sup>4</sup> Ritsumeikan University(Japan)

17:40 - 18:00

(2D-09) Dislocation-Limited Luminescence Quantum Efficiency in Chemical-Vapor-Deposition Diamond

\*Kensuke Matsumoto<sup>1</sup>, Yuki Katsuno<sup>1</sup>, Soh Teramoto<sup>1</sup>, Ryo Ikebe<sup>1</sup>, Daiki Totsuka<sup>1</sup>, Jan Isberg<sup>2</sup>, Nobuko Naka<sup>1</sup>

<sup>1</sup> Kyoto University(Japan)

<sup>2</sup> Uppsala University(Sweden)

18:00 - 18:20

(2D-10) Structure-property relationships for exciton transport in layered perovskites

\*Raquel Utrera-Melero<sup>1,2</sup>, Antonella Cutrupi<sup>1</sup>, Upasana Das<sup>1</sup>, Ivan Rivilla<sup>3</sup>, Davide Spirito<sup>4</sup>, Juan Cabanillas-González<sup>2</sup>, Antonio Isaac Fernández-Domínguez<sup>1</sup>, Carolina Sañudo<sup>5</sup>, Beatriz Martín-García<sup>3</sup>, Jose Sánchez-Costa<sup>2</sup>, Ferry Prins<sup>1</sup>

<sup>1</sup> Universidad Autónoma de Madrid(Spain)

<sup>2</sup> IMDEA Nanociencia(Spain)

<sup>3</sup> IKERBASQUE, Basque Foundation for Science(Spain)

<sup>4</sup> BCMaterials - Basque Center for Materials, Applications, and Nanostructures(Spain)

<sup>5</sup> Universitat de Barcelona(Spain)

18:20 - 18:40

(2D-11) Relevance of Electron and Hole Transfer in Perovskite Nanocrystals for OptoElectronics Applications

\*Manas Kumar Sarangi<sup>1</sup>

<sup>1</sup> Assistant Professor(India)

## ■ September 23 (Wed)

### Room E

Venue: Base of ILAS bldg.

#### Organic molecule/MOF/Complex/OLED *Chairs: Yunqi Liu, Anna Painelli*

14:20 - 14:40

(2E-01) Development of Advanced Luminescent Molecules and Polymers Based on Even-Electron/Odd-Atom Conjugated Systems

\*Shunichiro Ito<sup>1</sup>, Kazuo Tanaka<sup>1</sup>

<sup>1</sup> Kyoto Univ.(Japan)

14:40 - 15:00

(2E-02) Trap-Engineered Persistent Charge Carriers and Photostimulated Readout in Organic Materials

\*Dmitry Kovalevskiy<sup>1</sup>, Kirill Mitrofanov<sup>1</sup>, Liliia Moshniacha<sup>1</sup>, Yemini S. L. V. Narayana<sup>2</sup>, Kaede Kawaguchi<sup>1</sup>, Ryota Kabe<sup>1</sup>

<sup>1</sup> Okinawa Institute of Science and Technology(Japan)

<sup>2</sup> Vignan's Foundation for Science, Technology and Research(India)

15:00 - 15:20

(2E-03) Symmetry- and Substituent-Controlled Singlet-Triplet Energetics in Heptazine Derivatives

\*Dominik Madea<sup>1</sup>, Ryota Kabe<sup>1</sup>

<sup>1</sup> Okinawa Institute of Science and Technology(Japan)

15:20 - 15:40

(2E-04) Highly Efficient ECL Immunosensing via a Stimuli-Responsive Luminophore

\*Giorgio Facchetti<sup>1</sup>, Isabella Rimoldi<sup>1</sup>, Lorenzo Arnal<sup>1</sup>, Alessandro Fracassa<sup>2</sup>, Giulia Ferrari<sup>1</sup>, Maria Vittoria Balli<sup>2</sup>, Alessia Marconi<sup>2</sup>, Matteo Calvaresi<sup>2</sup>, Luca Prodi<sup>2</sup>, Giovanni Valenti<sup>2</sup>, Luisa De Cola<sup>1</sup>

<sup>1</sup> Università degli Studi di Milano(Italy)

<sup>2</sup> Università di Bologna (Italy)

15:40 - 16:00

(2E-05) Isomer-dependent multicolor solid-state excimer emission of ethynylantracene-substituted pyridines modulated by pressure and co-crystallization

\*Hideyuki Takahashi<sup>1</sup>, Itaru Tsuchiya<sup>2</sup>, Yoshiki Ozawa<sup>2</sup>, Masaaki Abe<sup>2</sup>, Shuhei Matsumura<sup>3</sup>, Ayumi Ishii<sup>3</sup>, Akiko Hori<sup>1</sup>

<sup>1</sup> Shibaura Institute of Technology(Japan)

<sup>2</sup> University of Hyogo(Japan)

<sup>3</sup> Waseda University(Japan)

#### Theoretical modelling and computational methods *Chairs: Masayoshi Mikami, Yuuki Kitagawa*

16:40 - 17:00

(2E-06) Interpreting Emission Trends in Eu<sup>2+</sup>-Activated Phosphors from a Data-Driven Perspective

\*Yukinori Koyama<sup>1</sup>, Ryusei HAYASAKA<sup>2</sup>, Yuta MATSUSHIMA<sup>2</sup>, Takayuki NAKANISHI<sup>1</sup>, Takashi TAKEDA<sup>1</sup>, Naoto HIROSAKI<sup>1</sup>

<sup>1</sup> National Institute for Materials Science(Japan)

<sup>2</sup> Yamagata University(Japan)

17:00 - 17:20

(2E-07) High-throughput synthesis of luminescent inorganic thin films by coupling spray-coating deposition and laser irradiation

\*Simon Delacroix<sup>1</sup>, Amandine Séné<sup>1</sup>, Sandrine Tusseau-Nenez<sup>1</sup>, Arnaud Lahouati<sup>1,2</sup>, Yijing Chen<sup>1</sup>, Thierry Gacoin<sup>1</sup>

<sup>1</sup> Laboratoire de Physique de la Matière Condensée (PMC), CNRS, École Polytechnique – IP Paris(France)

<sup>2</sup> Aionobios(France)

17:20 - 17:40

(2E-08) From Algorithms to Illumination: Machine Learning for Phosphorescent OLEDs

\*George Fitzgerald<sup>1</sup>, Sean Ryno<sup>1</sup>, Henry Herbol<sup>1</sup>, Diana Drennan<sup>1</sup>, Gbolade Kayode<sup>1</sup>

<sup>1</sup> Universal Display Corporation(USA)

17:40 - 18:00

(2E-09) Erbium and its complexes in semiconductors

\*Minseok Choi<sup>1</sup>

<sup>1</sup> Inha University(Korea)

18:00 - 18:20

(2E-10) Shaping the photophysical properties in real-sized lanthanide-doped nanoparticles

\*Albano N. Carneiro Neto<sup>1</sup>

<sup>1</sup> Department of Inorganic Chemistry, University of Santiago de Compostela (Spain)

## ■ September 23 (Wed)

### Area I

Venue: Base of Human and Environmental bldg.

Poster core times differ for odd- and even-numbered posters.

Odd-numbered posters (01, 03, 05, ...): First poster session (12:40-13:50)

Even-numbered posters (02, 04, 06, ...): Second poster session (18:50-20:00)

#### LED phosphor

(2PT01)  $\text{Cr}^{3+}/\text{Ni}^{2+}$  Co-Doped Garnet Phosphors for Broadband NIR pc-LEDs toward Non-Destructive Pesticide Detection

\*Monalisha Behera<sup>1</sup>, Jatin Dhanuka<sup>1</sup>, Sudipta Som<sup>1</sup>, Hendrick C Swart<sup>2</sup>

<sup>1</sup> Shiv Nadar University Chennai(India)

<sup>2</sup> University of Free state South Africa (South Africa)

(2PT02) Lower-Temperature Synthesis of  $\text{Ba}_3\text{Bi}(\text{PO}_4)_3:\text{Eu}^{3+}$  Eulytite Phosphors

\*Nagomi Yaba<sup>1</sup>, Takeshi Toyama<sup>1</sup>, Brahim Elouadi<sup>2</sup>

<sup>1</sup> Department of Materials and Applied Chemistry, College of Science and Technology, Nihon University(Japan)

<sup>2</sup> ENSAM-Rabat, Université Mohammed-V(Morocco)

(2PT03) Near-Infrared Emission of La-Doped  $\text{Eu}_2\text{Si}_5\text{N}_8$

\*Seika Tokumitsu<sup>1,2</sup>, Takashi Takeda<sup>1</sup>, Kohsei Takahashi<sup>1</sup>, Junichi Tatami<sup>2</sup>, Motoyuki Iijima<sup>2</sup>, Naoto Hirotsaki<sup>1</sup>

<sup>1</sup> National Institute for Materials Science(Japan)

<sup>2</sup> Yokohama National University(Japan)

(2PT04) A-Site Cation Control and Symmetry Dependence of Perovskite-Type  $\text{ATiO}_3:\text{Eu}^{3+}, \text{Li}^+$  ( $A = \text{Ca}, \text{Sr}, \text{Ba}$ ) Phosphors for Advanced Photoluminescent Textile Security Applications

\*Gabriel Nicolo Azores De Guzman<sup>1,2</sup>, Jeff Ryan S. Magalong<sup>1</sup>, Ace B. Gapiza<sup>1</sup>, Julius L. Leaño, Jr.<sup>1</sup>

<sup>1</sup> Philippine Textile Research Institute, Department of Science and Technology(Philippines)

<sup>2</sup> Science and Technology Fellows Program, Department of Science and Technology(Philippines)

(2PT05)  $\text{LiGd}_2\text{Si}_3\text{N}_5\text{O}_2$  - Unveiling Blue and Orange Emission via  $\text{Ce}^{3+}$  and  $\text{Eu}^{2+}$  Activation in the First Rare-Earth Oxonitridolithosilicate

\*Mike van Os<sup>1</sup>, Kilian Rießbeck<sup>1</sup>, Hubert Huppertz<sup>1</sup>

<sup>1</sup> Universität Innsbruck(Austria)

(2PT06) Tunable Near-Infrared Emission in  $\text{Cr}^{3+}$  Doped  $\text{Li}(\text{In}, \text{Y})\text{O}_2$  Solid Solutions Through Crystal-Field Engineering

\*Likhit Balse<sup>1</sup>, Hirohisa Miyata<sup>1</sup>, Jumpei Ueda<sup>1</sup>

<sup>1</sup> Japan Advanced Institute of Science and Technology (JAIST)(Japan)

(2PT07)  $\text{Li}_4\text{GeO}_4:\text{Cr}^{4+}$  Phosphors Exhibiting Broadband NIR-II Emission via Reductive Heat Treatment

\*Aunsaya Eksatit<sup>1,4</sup>, Takayuki Nakanishi<sup>1</sup>, Takuya Ohmi<sup>1</sup>, Akihiro NAKANISHI<sup>1</sup>, Jian Xu<sup>2</sup>

<sup>1</sup> National Institute for Materials Science(Japan)

<sup>2</sup> Kyoto University(Japan)

(2PT08) Investigation of Monovalent ions Induced Luminescence Enhancement in  $\text{La}_2\text{Zr}_2\text{O}_7:\text{Eu}^{3+}$  for WLEDs and Latent Fingerprint Visualization Applications

\*Vijayata Jagtap<sup>1</sup>, Astha Tyagi<sup>1</sup>, C. Shivakumara<sup>1</sup>

<sup>1</sup> Indian Institute of Science, Bangalore, India(India)

(2PT09) Tuning Photoluminescence in  $\text{Ca}_3(\text{VO}_4)_2:\text{Dy}^{3+}$  via  $\text{Li}^+$  Co-doping: A Single Phosphor Platform for Lighting, Forensic, and Security Applications.

\*Deepak Kumar<sup>1</sup>, Praveen Chandra Pandey<sup>1</sup>

<sup>1</sup> Indian Institute of Technology (BHU), Varanasi(India)

(2PT10) Defects elucidation of  $\text{Eu}^{3+}$ -activated novel lithium-potassium borate ( $\text{Li}_{1.8}\text{K}_{0.2}\text{B}_4\text{O}_7$ ) phosphor

\*Rahul Awasthi<sup>1</sup>, Arun Kumar R<sup>2</sup>, Dinesh Sankar Reddy<sup>3</sup>

<sup>1</sup> Optical Materials Group, School of Sciences (Physics), National Institute of Technology Andhra Pradesh(India)

<sup>2</sup> Department of Physics, National Institute of Technology Warangal(India)

<sup>3</sup> Department of Chemical Engineering, National Institute of Technology Andhra Pradesh(India)

## (2PT11) Artificial Sodalites derived from Minerals: A Sustainable Alternative to Lighting

\*Amrithakrishnan Bindhu<sup>1,2</sup>, Sami Vuori<sup>2</sup>, Miradije Rama<sup>3</sup>, Esa Heilimo<sup>4</sup>, Mika Lastusaari<sup>5</sup><sup>1</sup> Asst. Prof. Physics, GPTC Vandiperiyar, Idukki, Kerala(India)<sup>2</sup> Dept. Chemistry, Univ. Turku, Turku(Finland)<sup>3</sup> Research Scientist, Geological Survey of Finland, Espoo(Finland)<sup>4</sup> Prof. Geology, Dept. Geography & Geology, Univ. Turku, Turku(Finland)<sup>5</sup> Prof. Chemistry, Dept. Chemistry, Univ. Turku, Turku(Finland)(2PT12) Energy transfer and color tunability in  $\text{Sm}^{3+}$  co-doped with  $\text{Sr}_3\text{La}_2\text{B}_4\text{O}_{12}:\text{Dy}^{3+}$  phosphors for high-performance WLEDs\*Beny Jermila S<sup>1</sup>, Masilla Moses Kennedy S<sup>1</sup><sup>1</sup> Sri Sivasubramaniya Nadar College of Engineering, Kalavakkam(India)(2PT13) Investigation of LFP Development using Na<sup>+</sup> doped Zinc Vanadate Phosphor\*Tanika Chauhan<sup>1</sup>, Satyam Chaturvedi<sup>1</sup>, Praveen Chandra Pandey<sup>1</sup><sup>1</sup> Department of Physics, Indian Institute of Technology, Varanasi(India)(2PT14)  $\text{Eu}^{3+}$  Doped  $\text{CaMgB}_2\text{O}_5$  Phosphor for Next-Generation Lighting and Sensing: Recent Trends in Rare-Earth Phosphor Application.\*J Aman Kunjam<sup>1</sup>, Durga Prasad Bisen<sup>1</sup>, Nameeta Brahme<sup>1</sup>, Chitrakant Belodhiya<sup>1</sup>, Sivakumar Vaidhyathan<sup>2</sup><sup>1</sup> S.o.S. in Physics and Astrophysics, Pt. Ravishankar Shukla University, Raipur, Chhattisgarh, India. (India)<sup>2</sup> Department of Chemistry, Indian Institute of Technology Hyderabad(India)(2PT15) Tuneable Blue-to-Red Emission of  $\text{Bi}^{3+}$ -codoped Fluoride Nanophosphors for LEDs in Agricultural Applications\*Bojana Milicevic<sup>1</sup>, Sanja Kuzman<sup>1</sup>, Jovana Perisa<sup>1</sup>, Ljubica Djacanin Far<sup>1</sup>, Aleksandar Ciric<sup>1</sup>, Katarina Milenkovic<sup>1</sup>, Miroslav D Dramicanin<sup>1</sup><sup>1</sup> Centre of Excellence for Photoconversion, Vinča Institute of Nuclear Sciences - National Institute of the Republic of Serbia, University of Belgrade(Serbia)

## (2PT16) Excitation wavelength and intensity dependence of blinking phenomena in InGaN/GaN single quantum well semiconductors

\*Kotaro Oikawa<sup>1</sup>, Ruggero Micheletto<sup>1</sup><sup>1</sup> Yokohama City University(Japan)(2PT17) Photoluminescence Properties and Crystal Structure of  $\text{Eu}^{2+}$ -Activated  $\text{Ba}_2\text{LiAlSi}_2\text{O}_8$  Blue-Green Phosphor Discovered by Single-Particle-Diagnosis\*AKIHIRO NAKANISHI<sup>1</sup>, SHIRO FUNAHASHI<sup>2</sup>, YUKINORI KOYAMA<sup>3</sup>, HISANORI YAMANE<sup>2</sup>, KOHSEI TAKAHASHI<sup>2</sup>, TAKAYUKI NAKANISHI<sup>2</sup>, NAOTO HIROSAKI<sup>2</sup>, TAKASHI TAKEDA<sup>2</sup><sup>1</sup> Tokushima University(Japan)<sup>2</sup> Advanced Phosphor Group, National Institute for Materials Science(Japan)<sup>3</sup> Center for Basic Research on Materials, National Institute for Materials (Japan)(2PT18) Red-Emitting  $\text{Eu}^{3+}$ :  $\text{BaYAl}_3\text{O}_7$  Luminescent Ceramic for Solid-State Lighting and Advanced Photonic Devices\*Aabha Pardhi<sup>1</sup>, Nameeta Brahme<sup>1</sup>, Durga Prasad Bisen<sup>1</sup><sup>1</sup> SoS in physics and Astrophysics, Pt. RaviShankarshukla University, Raipur(India)(2PT19) Structural, optical and thermoluminescence properties of solution combustion derived  $\text{Dy}^{3+}$  doped  $\text{BaAl}_2\text{Si}_2\text{O}_8$  phosphor\*Manash Kalita<sup>1</sup>, J.M. Kalita<sup>1</sup><sup>1</sup> Department of Physics, Cotton University(India)

## (2PT20) Sustainable Development Goals (SDGs) - inspired fabrication of phosphor-in-glass (PiG) – based luminescent devices : An eco-friendly approach!

\*Arun Kumar Raman<sup>1</sup>, Mitrabhanu Behera<sup>2</sup>, Rajashree Panda<sup>3</sup>, Mahesha K Hegde<sup>4</sup><sup>1</sup> National Institute of Technology Warangal(India)<sup>2</sup> Adam Mickiewicz University Poznan(Poland)<sup>3</sup> The Maharaja Sayajirao University of Baroda(India)<sup>4</sup> National Institute of Technology Andhra Pradesh(India)(2PT21) Structure-luminescence correlation studies in lanthanide doped  $\text{Ca}_2\text{P}_2\text{O}_7$  and  $\text{Sr}_2\text{P}_2\text{O}_7$  phosphors\*Parvathy Mallika<sup>1</sup>, Sabeena Mannilthodi<sup>1</sup><sup>1</sup> Department of Physics Cochin University of Science and Technology(India)

**(2PT22) Precision LED Excitation Systems for Spectroscopy Studies Across a Broad Spectral Range**\*Maciej Grzegorzczak<sup>1</sup>, Natalia Majewska<sup>2</sup><sup>1</sup> University of Gdańsk(Poland)<sup>2</sup> Adam Mickiewicz University, Poznań(Poland)**(2PT23) Temperature and high-pressure luminescence properties of Cr<sup>3+</sup>-doped Sr<sub>2</sub>Ga<sub>(1-x)</sub>In<sub>x</sub>SbO<sub>6</sub> double perovskite**\*Agata Gurzyńska<sup>1</sup>, Natalia Majewska<sup>1,2</sup>, Yu-Te Lee<sup>3</sup>, Yi-Ting Tsai<sup>3</sup>, Mu-Huai Fang<sup>3</sup>, Sebastian Mahlik<sup>1</sup><sup>1</sup> Institute of Experimental Physics, Faculty of Mathematic, Physics, and Informatics, University of Gdańsk, Wita Stwosza 57, 80-308 Gdańsk(Poland)<sup>2</sup> Faculty of Chemistry, Adam Mickiewicz University, Uniwersytetu Poznańskiego 8, 61-614 Poznań(Poland)<sup>3</sup> Research Center for Applied Sciences, Academia Sinica, Taipei 11529(Taiwan)**(2PT24) Advanced Luminescent Security Inks: Achieving High Stability and Selective Excitation for Strategic Anti-Counterfeiting**\*Payal Priyadarshini Pradhan<sup>1</sup>, HARANATH DIVI<sup>1</sup><sup>1</sup> NATIONAL INSTITUTE OF TECHNOLOGY WARANGAL(India)**(2PT25) Zero-Concentration Quenching in LiSrLa(MoO<sub>4</sub>)<sub>3</sub>:Eu<sup>3+</sup> Phosphors for Multifunctional Applications**\*Aravind Kumar<sup>1,2</sup>, Jumpei Ueda<sup>1</sup>, Samuel Paul David<sup>2</sup><sup>1</sup> Japan Advanced Institute of Science and Technology(Japan)<sup>2</sup> Vellore Institute of Technology(India)**(2PT26) When Average Structure Fails: Local Symmetry Governs Cr Luminescence in Perovskite Oxides**\*Jiazheng Li<sup>1</sup>, Jian Xu<sup>1</sup>, Jumpei Ueda<sup>2</sup>, Michele Back<sup>3</sup>, Ruilin Zheng<sup>4,5</sup>, Natalia Majewska<sup>6,7</sup>, Setsuhisa Tanabe<sup>1</sup><sup>1</sup> Kyoto University(Japan)<sup>2</sup> Japan Advanced Institute of Science and Technology (JAIST)(Japan)<sup>3</sup> Ca' Foscari University of Venice(Italy)<sup>4</sup> Nanjing University of Posts and Telecommunications(China)<sup>5</sup> Shanghai Institute of Optics and Fine Mechanics(China)<sup>6</sup> University of Gdańsk(Poland)<sup>7</sup> Adam Mickiewicz University(Poland)**(2PT27) Humidity-Dependent Degradation Behavior of a UC<sub>4</sub>C<sub>4</sub>-Type Green Phosphor**\*Jeong Hui Kim<sup>1</sup>, Won Bin Im<sup>1</sup><sup>1</sup> Hanyang Univ.(Korea)

## ■ September 23 (Wed)

### Area II

Venue: Base of Human and Environmental bldg.

Poster core times differ for odd- and even-numbered posters.

Odd-numbered posters (01, 03, 05, ...): First poster session (12:40-13:50)

Even-numbered posters (02, 04, 06, ...): Second poster session (18:50-20:00)

#### Scintillator

(2PT29) Shallow-Trap Perovskite Scintillators for High-Resolution, Ghosting-Free X-Ray Imaging

\*Zhenzhen Zhang<sup>1</sup>

<sup>1</sup> Fuzhou University(China)

(2PT30) Investigation of Low-LET and High-LET Radiation Response in Borate Phosphor for LEO Dosimetry

\*Naresh Degda<sup>1</sup>, Sachin Kumar Hazari<sup>2</sup>, Kevil Shah<sup>3</sup>, Yashesh Gandhi<sup>3</sup>, Naveen Chauhan<sup>2</sup>

<sup>1</sup> Department of Physics, Faculty of Science, The Maharaja Sayajirao University of Baroda, Vadodara(India)

<sup>2</sup> AMOPH division, Physical Research Laboratory, Ahmedabad(India)

<sup>3</sup> Department of Applied Physics, Faculty of Technology and Engineering, The Maharaja Sayajirao University of Baroda, Vadodara(India)

(2PT31) Development of radiophotoluminescence materials for real-time neutron measurements

\*Go Okada<sup>1</sup>, Masanori Koshimizu<sup>2</sup>, Kiyomitsu Shinsho<sup>3</sup>, Genichiro Wakabayashi<sup>4</sup>, Hiroki Tanaka<sup>5</sup>, Kenichi Watanabe<sup>6</sup>

<sup>1</sup> Kanazawa Institute of Technology(Japan)

<sup>2</sup> Shizuoka University(Japan)

<sup>3</sup> Tokyo Metropolitan University(Japan)

<sup>4</sup> Kindai University(Japan)

<sup>5</sup> Kyoto University(Japan)

<sup>6</sup> Kyushu University(Japan)

(2PT32) Optical and scintillation properties of Y<sub>2</sub>O<sub>3</sub>:Gd transparent ceramics and their dependence on Gd concentration

\*Yuma Saito<sup>1</sup>, Shota Otake<sup>1</sup>, Takumi Kato<sup>1</sup>, Kenichi Watanabe<sup>2</sup>, Daisuke Nakauchi<sup>1</sup>, Noriaki Kawaguchi<sup>1</sup>, Takayuki Yanagida<sup>1</sup>

<sup>1</sup> Nara Institute of Science and Technology(Japan)

<sup>2</sup> Kyushu Univ.(Japan)

(2PT33) AI-Assisted High-Resolution X-ray Imaging with Solution-Processed Radioluminescence Scintillators

\*Qiushui Chen<sup>1</sup>

<sup>1</sup> Fuzhou University(China)

(2PT34) Photoluminescence and scintillation properties of Eu-doped La<sub>2</sub>O<sub>3</sub>-Al<sub>2</sub>O<sub>3</sub>-SiO<sub>2</sub> glasses

\*Akihiro Nishikawa<sup>1</sup>, Takumi Kato<sup>1</sup>, Daisuke Nakauchi<sup>1</sup>, Noriaki Kawaguchi<sup>1</sup>, Takayuki Yanagida<sup>1</sup>

<sup>1</sup> Nara Institute of Science and Technology(Japan)

(2PT35) Optical and dosimetric properties of ns<sup>2</sup>-ion-doped sodium borosilicate glasses for personal dosimeter

\*Shota Otake<sup>1</sup>, Takumi Kato<sup>1</sup>, Akihiro Nishikawa<sup>1</sup>, Daisuke Nakauchi<sup>1</sup>, Noriaki Kawaguchi<sup>1</sup>, Takayuki Yanagida<sup>1</sup>

<sup>1</sup> Nara Institute of Science and Technology(Japan)

(2PT36) Yields of Auger-free luminescence in different chloride compounds

\*Masanori Koshimizu<sup>1</sup>

<sup>1</sup> Shizuoka University(Japan)

(2PT37) Luminescence Properties of Beryllium Aluminate Single Crystals Induced by Ionizing Radiation

\*Ryosei Takahashi<sup>1</sup>, Kai Okazaki<sup>1</sup>, Haruaki Ezawa<sup>1</sup>, Daisuke Nakauchi<sup>1</sup>, Takumi Kato<sup>1</sup>, Noriaki Kawaguchi<sup>1</sup>, Takayuki Yanagida<sup>1</sup>

<sup>1</sup> Nara Institute of Science and Technology(Japan)

(2PT38) Optical modulation in nanoscintillators based on ZnGa<sub>2</sub>O<sub>4</sub>:Cr and/or REE for X-PDT

\*Shaian José Anghinoni<sup>1</sup>, Paulo César de Sousa Filho<sup>2</sup>, Verônica de Carvalho Teixeira<sup>3</sup>

<sup>1</sup> Brazilian Center for Research in Energy and Materials (CNPEM/LNLS) and Institute of Chemistry (UNICAMP)(Brazil)

<sup>2</sup> Institute of Chemistry (UNICAMP)(Brazil)

<sup>3</sup> Brazilian Center for Research in Energy and Materials (CNPEM/LNLS)(Brazil)

**(2PT39) Copper Chloride Cluster Compounds with 18-crown-6–AlkaliMetal Complexes: Phosphers for Radiation Detection**\*Itsuki Gonda<sup>1</sup>, Keishi Yamabayashi<sup>1</sup>, Daisuke Nakauchi<sup>1</sup>, Takumi Kato<sup>1</sup>, Noriaki Kawaguchi<sup>1</sup>, Takayuki Yanagida<sup>1</sup><sup>1</sup> Nara Institute of Science and Technology(Japan)**(2PT40) Synthesis and Characterization of NaBiF<sub>4</sub>:Ln<sup>3+</sup> nanoscintillators**\*Paulo Vinicius Brancacio de Simone<sup>1</sup>, Verônica De Carvalho Teixeira<sup>2</sup>, Hermi Felinto de Brito<sup>1</sup><sup>1</sup> IQUSP(Brazil)<sup>2</sup> LNLS-CNPEM(Brazil)**(2PT41) Photoluminescence and radioluminescence properties of Sm-doped Gd<sub>2</sub>SrAl<sub>2</sub>O<sub>7</sub> single crystals**\*Keiichiro Miyazaki<sup>1</sup>, Daisuke Nakauchi<sup>1</sup>, Kenichi Watanabe<sup>2</sup>, Takumi Kato<sup>1</sup>, Noriaki Kawaguchi<sup>1</sup>, Takayuki Yanagida<sup>1</sup><sup>1</sup> Nara Institute of Science and Technology(Japan)<sup>2</sup> Kyushu Univ.(Japan)**(2PT42) Experimental Cathodoluminescence Apparatus for Temperature-Dependent Studies of Luminescent Materials**\*Ondrej Zapadlik<sup>1,2</sup>, Martin Nikl<sup>1</sup><sup>1</sup> Institute of Physics of the Czech Academy of Sciences(Czech Republic)<sup>2</sup> Crytur(Czech Republic)**(2PT43) Luminescence and Scintillation properties of Ce-doped Tb<sub>3</sub>Sc<sub>2</sub>Al<sub>3</sub>O<sub>12</sub> crystals**\*Daisuke Nakauchi<sup>1</sup>, Takumi Kato<sup>1</sup>, Noriaki Kawaguchi<sup>1</sup>, Takayuki Yanagida<sup>1</sup><sup>1</sup> Nara Institute of Science and Technology(Japan)**(2PT44) Photoluminescence and scintillation properties of ZnO-BaO-TeO<sub>2</sub>-CsBr-PbBr<sub>2</sub> glasses**\*Takumi Kato<sup>1</sup>, Akihiro Nishikawa<sup>1</sup>, Daisuke Nakauchi<sup>1</sup>, Noriaki Kawaguchi<sup>1</sup>, Takayuki Yanagida<sup>1</sup><sup>1</sup> Nara Institute of Science and Technology(Japan)**(2PT45) Near-infrared scintillation properties of Nd-doped BaO-Tl<sub>2</sub>O-P<sub>2</sub>O<sub>5</sub> glasses**\*Keita Miyajima<sup>1</sup>, Akihiro Nishikawa<sup>1</sup>, Takumi Kato<sup>1</sup>, Daisuke Nakauchi<sup>1</sup>, Noriaki Kawaguchi<sup>1</sup>, Takayuki Yanagida<sup>1</sup><sup>1</sup> Nara Institute of Science and Technology(Japan)**(2PT46) Optical and radiation induced luminescence properties of Eu-doped NaGd(WO<sub>4</sub>)<sub>2</sub> single crystals**\*Hiromi Kimura<sup>1</sup>, Kodai Makino<sup>1,2</sup>, Daiki Shiratori<sup>2</sup>, Kensei Ichiba<sup>3</sup>, Takayuki Yanagida<sup>4</sup>, Hidetoshi Kato<sup>1</sup>, Yutaka Fukuchi<sup>2</sup>, Takeshi Fujiwara<sup>1</sup><sup>1</sup> National Institute of Advanced Industrial Science and Technology(Japan)<sup>2</sup> Tokyo University of Science(Japan)<sup>3</sup> Kansai University(Japan)<sup>4</sup> Nara Institute of Science and Technology(Japan)**(2PT47) Mechanochemical Synthesis of Lead-Free Cs<sub>3</sub>Cu<sub>2</sub>I<sub>5</sub>:Mn<sup>2+</sup> Nanocrystals:A Versatile Platform for White-Light LEDs and High-Resolution X-Ray Imaging**Tong Yu<sup>1</sup>, \*Hancheng Zhu<sup>1</sup>, Xintong Zhang<sup>1</sup>, Yichun Liu<sup>1</sup><sup>1</sup> Northeast Normal University(China)**(2PT48) Host-cation effect on radio-photoluminescence properties of isostructural Eu-doped K<sub>2</sub>SrPO<sub>4</sub> and KBaPO<sub>4</sub> ceramics**\*Daiki Shiratori<sup>1</sup>, Akihiro Nishikawa<sup>2</sup>, Go Okada<sup>3</sup>, Yutaka Fukuchi<sup>1</sup>, Takayuki Yanagida<sup>2</sup><sup>1</sup> Tokyo University of Science(Japan)<sup>2</sup> Nara Institute of Science and Technology(Japan)<sup>3</sup> Kanazawa Institute of Technology(Japan)**(2PT49) Application of thermoluminescence (TL), continuous optically stimulated luminescence (COSL) and pulsed optically stimulated (POSL) for mixed field neutron–gamma dosimetry using LiF:Mg,Ti (TLD-700)**\*Leonid Oster<sup>1</sup>, Ilan Eliyahu<sup>2</sup>, Yigal Horowitz<sup>3</sup>, Alex Shapiro<sup>1</sup><sup>1</sup> Sami Shamoon College of Engineering(Israel)<sup>2</sup> Soreq Nuclear Research, Center, Yavneh, Israel.(Israel)<sup>3</sup> Physics Department, Ben Gurion University of the Negev, Beer Sheva, 8410501, Israel(Israel)**(2PT50) Achieving Trap-Depth-Tunable Organic Persistent Luminescence through Host Energy-Level Engineering**\*Chenhan Zhan<sup>1</sup>, Cunjian Lin<sup>2</sup>, Jumpei Ueda<sup>2</sup>, Yixi Zhuang<sup>1,3</sup>, Rong-Jun Xie<sup>1,4</sup><sup>1</sup> Xiamen University(China)<sup>2</sup> Japan Advanced Institute of Science and Technology(Japan)<sup>3</sup> Shenzhen Research Institute of Xiamen University(China)<sup>4</sup> State Key Laboratory of Physical Chemistry of Solid Surfaces(China)

## ■ September 23 (Wed)

### Area III

Venue: Base of Human and Environmental bldg.

Poster core times differ for odd- and even-numbered posters.

**Odd-numbered posters (01, 03, 05, ...): First poster session (12:40-13:50)**

**Even-numbered posters (02, 04, 06, ...): Second poster session (18:50-20:00)**

#### Organic molecule/MOF/Complex/OLED

(2PT51) Ligand Engineering of Amphiphilic Glucoconjugates for Tunable Lanthanide Luminescence and (Chir)optical Response

\*Parmeshthi Parikh<sup>1</sup>, Ajay Kumar Sah<sup>2</sup>

<sup>1</sup> PhD candidate(India)

<sup>2</sup> Supervisor(India)

(2PT52) Efficient and stable perovskite solar cells enabled by strong-anchoring bisphosphonic self-assembly molecules with regulated orientations

\*Wansheng Zong<sup>1</sup>

<sup>1</sup> Xinjiang University(China)

(2PT53) Organometallic Emitters for ElectroChemiLuminescence (ECL) Signal Amplification

\*Luigi Menduti<sup>1</sup>, Nicolò Quadrio<sup>1</sup>, Nayla Kusimoto Takeuti<sup>1</sup>, Claudia Martinez Asenjo<sup>2</sup>, Alessandro Fracassa<sup>2</sup>, Giovanni Valenti<sup>2</sup>, Luisa De Cola<sup>1</sup>

<sup>1</sup> University of Milan(Italy)

<sup>2</sup> University of Bologna(Italy)

(2PT54) Luminescence of Lanthanides in Unusual Oxidation States

\*Steffen Schwamborn<sup>1</sup>, Niko Flosbach<sup>1</sup>, Maxim Bykov<sup>2</sup>, Mathias Wickleder<sup>1</sup>

<sup>1</sup> University of Cologne(Germany)

<sup>2</sup> Goethe University Frankfurt(Germany)

(2PT55) Efficient solid-state circularly polarised luminescence in polar crystals incorporating chiral Eu<sub>3</sub> clusters

\*Marta Niemiec<sup>1</sup>, Aleksander Hoffman<sup>1,2</sup>, Jakub J. Zakrzewski<sup>3</sup>, Fumitaka Kagawa<sup>4</sup>, Szymon Choraży<sup>1</sup>

<sup>1</sup> Faculty of Chemistry, Jagiellonian University, Kraków, 30-387(Poland)

<sup>2</sup> Doctoral School of Exact and Natural Sciences, Jagiellonian University, Kraków, 30-348(Poland)

<sup>3</sup> Department of Chemistry, School of Science, The University of Tokyo, Tokyo, 113-0033(Japan)

<sup>4</sup> RIKEN Center for Emergent Matter Science (CEMS), Wako, 351-0198(Japan)

(2PT56) Halide-Dependent Emission Tuning in Eu<sup>2+</sup>-Based Low-Dimensional Metal Halides via Local Structural Distortion

\*Sanha Choi<sup>1</sup>, Won Bin Im<sup>1</sup>

<sup>1</sup> Hanyang University(Korea)

(2PT57) Quest for coordination polymers exhibiting nonlinear- and chiro-optical activity in the UV range

\*Hubert Dzielak<sup>1</sup>, Aleksander Hoffman<sup>1</sup>, Jakub Józef Zakrzewski<sup>1,2</sup>, Shin-ichi Ohkoshi<sup>2</sup>, Szymon Choraży<sup>1</sup>

<sup>1</sup> Faculty of Chemistry, Jagiellonian University(Poland)

<sup>2</sup> Department of Chemistry, The University of Tokyo(Japan)

(2PT58) Optically Stimulated Luminescence of Coconut Wax for dosimetric applications

\*Maurício Maekawa Chaves<sup>1,2</sup>, Matheus Cavalcanti dos Santos Nunes<sup>1,2</sup>, Paulo Roberto Costa<sup>1</sup>, Carina Ulsen<sup>1</sup>, Neilo Marcos Trindade<sup>1</sup>

<sup>1</sup> University of São Paulo(Brazil)

<sup>2</sup> State University of São Paulo(Brazil)

(2PT59) Tuning Emission of Iodinated MOF Linkers through Environment and Framework Formation

\*Jean Patrick Weber<sup>1</sup>, Martin Breugst<sup>2</sup>, Uwe Ruschewitz<sup>1</sup>

<sup>1</sup> University of Cologne(Germany)

<sup>2</sup> Technische Universität Chemnitz(Germany)

(2PT60) Enhanced solid-state emission and guest-recognition of 9,10-dihydro-9,9-dimethylacridine-based dicarbonyl compounds

\*Asaka Nara<sup>1</sup>, Ko Kanehisa<sup>1</sup>, Hideyuki Takahashi<sup>1</sup>, Shuhei Matsumura<sup>2</sup>, Ayumi Ishii<sup>2</sup>, Akiko Hori<sup>1</sup>

<sup>1</sup> Shibaura Institute of Technology(Japan)

<sup>2</sup> Waseda University(Japan)

(2PT61) Beyond Conventional Molecular Emission: Slow Transient Emission Reveals Hidden Long-Lived Charge-Separated States

\*Liliia Moshniha<sup>1</sup>, Rengo Yoshioka<sup>1</sup>, Ryota Kabe<sup>1</sup>

<sup>1</sup> Okinawa Institute of Science and Technology(Japan)

(2PT62) Influence of selective distribution of lanthanides over crystallographic sites on luminescent properties of binuclear  $\beta$ -diketonates

\*Victoria Gontcharenko<sup>1,2</sup>, Trofim Polikovskiy<sup>1,3</sup>, Daniil Karpenko<sup>4</sup>, Yuriy Belousov<sup>1,4</sup>, Ilya Taydakov<sup>1</sup>

<sup>1</sup> P.N. Lebedev Physical Institute of the Russian Academy of Sciences(Russia)

<sup>2</sup> Faculty of Chemistry, HSE University(Russia)

<sup>3</sup> Landau School of Physics and Research, Moscow Institute of Physics and Technology(Russia)

<sup>4</sup> Chemistry Department, Moscow State University(Russia)

(2PT63) Formation and photophysical properties of lanthanide coordination polymer crystals with hetero-ligands

\*Takayuki Nakanishi<sup>1</sup>, Yuichi Hirai<sup>1</sup>

<sup>1</sup> NIMS(Japan)

(2PT64) Reversible Phase Transition of Lead-Free Manganese(II)

Halides Toward Stimuli-Triggered 4D-Printed Functional

Architectures

\*Minhyeok Kim<sup>1</sup>, Jung Hyeon Yoo<sup>1</sup>, Won Bin Im<sup>1</sup>

<sup>1</sup> Hanyang University(Korea)

## ■ September 23 (Wed)

### Area IV

Venue: Base of Human and Environmental bldg.

Poster core times differ for odd- and even-numbered posters.

Odd-numbered posters (01, 03, 05, ...): First poster session (12:40-13:50)

Even-numbered posters (02, 04, 06, ...): Second poster session (18:50-20:00)

#### Semiconductor

(2PT65) Four-photon excitation processes for excitonic luminescence in  $\text{Cu}_2\text{O}$

\*Yuma Furuno<sup>1</sup>, Ippei Yamanaka<sup>1</sup>, Kohei Eguchi<sup>1</sup>, Nobuko Naka<sup>1</sup>

<sup>1</sup> Kyoto University(Japan)

(2PT66) Optical Properties of  $\text{Cr}^{3+}$  in  $\text{Mg}_{1-x}\text{Zn}_x\text{Al}_2\text{O}_4$  Spinels: a Systematic HF-DFT Study on Structural and Compositional Influence

\*Alexander Platonenko<sup>1</sup>, Rostislavs Rostovskis<sup>1</sup>, Marina Konuhova<sup>1</sup>, Anatoli I Popov<sup>1</sup>

<sup>1</sup> Institute of Solid State Physics, Univ. of Latvia(Latvia)

(2PT67) Influence of ZnSe Shell Thickness on Electron Transfer in  $\text{ZnCl}_2$ -Passivated ZnSeTe Quantum Dots

\*Rahul Singh<sup>1</sup>, Won Bin Im<sup>1</sup>

<sup>1</sup> Hanyang University, Seoul, South Korea(Korea)

(2PT68) Biodegradable Silver Coated Porous Silicon: A Dual-Modal Platform for Photoluminescence Cell Imaging and SERS Analysis

Hanna Bandarenka<sup>1</sup>, Aliaksandr Burko<sup>1</sup>, Diana Laputko<sup>1</sup>, Abdirash Akilbekov<sup>2</sup>, Zhuldyz Nurlan<sup>2</sup>, Diana Junisbekova<sup>2</sup>, \*Alma Dauletbekova<sup>2</sup>

<sup>1</sup> Applied Plasmonics Laboratory, Belarusian State University of Informatics and Radioelectronics(Belarus)

<sup>2</sup> Department of Technical Physics, L.N. Gumilyov Eurasian National University(Kazakhstan)

(2PT69) Black Phosphors: Infrared self-trapped exciton luminescence from small bandgap thiovanadates

\*Jeffrey Zom<sup>1</sup>, Erik van der Kolk<sup>1</sup>

<sup>1</sup> Technical University Delft(Netherlands)

(2PT70) Environment-Driven Modulation of NV Luminescence in Nanodiamonds

\*Kristi Kanya Saikia<sup>1</sup>

<sup>1</sup> Doctoral Student, Graduate School of Environmental, Life, Natural Sciences and Technology, Okayama University(Japan)

## ■ September 23 (Wed)

### Area V

Venue: Base of Human and Environmental bldg.

Poster core times differ for odd- and even-numbered posters.

Odd-numbered posters (01, 03, 05, ...): First poster session (12:40-13:50)

Even-numbered posters (02, 04, 06, ...): Second poster session (18:50-20:00)

#### Mechanoluminescence

(2PT71) Luminescent characteristics of  $\text{Ce}^{+}$ -doped  $\text{LuBO}_3$  powders at extreme conditions of pressure and temperature. Applications in manometry and thermometry

\*Ulises R. Rodríguez-Mendoza<sup>1,3,5</sup>, Christian Hernández-Álvarez<sup>1</sup>, Gerardo Gil-de-Cos<sup>1</sup>, Antonio Diego Lozano-Gorrín<sup>2,3</sup>, Javier González-Platas<sup>1,4,5</sup>, Víctor Lavín<sup>1,4,5</sup>

<sup>1</sup> Department of Physics. Universidad de La Laguna (Spain)

<sup>2</sup> Department of Chemistry. Universidad de La Laguna (Spain)

<sup>3</sup> INM. Universidad de La Laguna (Spain)

<sup>4</sup> IUDEA. Universidad de La Laguna (Spain)

<sup>5</sup> MALTA Consolider Team (Spain)

(2PT73) First-Principles Investigation of Defect Luminescence in ZnO Mechanoluminescent Materials

\*Guangfa Yang<sup>1</sup>, Koko Otonari<sup>1</sup>, Reona Omori<sup>1</sup>, Tomoki Uchiyama<sup>1</sup>, Ying Chen<sup>1</sup>, Xu-Guang Zheng<sup>2</sup>, Chao-Nan Xu<sup>1</sup>

<sup>1</sup> Tohoku University (Japan)

<sup>2</sup> Saga University (Japan)

(2PT75) Unveiling the Triboluminescence Mechanism: How Lamellar Cleavage Drives Luminescence in Chiral Europium Complexes

\*Reo Ohno<sup>1</sup>, Nikita Madhukar<sup>1</sup>, Miki Hasegawa<sup>1</sup>

<sup>1</sup> Aoyama Gakuin University (Japan)

#### Bioimaging

(2PT72) Annealing Temperature Dependent Luminescence Behaviour of  $\text{Eu}^{3+}$  Doped Calcium Magnesium Silicate with Bioimaging Investigations

\*Navya Sara Kuriyan<sup>1</sup>, P. S. Ghosh<sup>2</sup>, A. Arya<sup>2</sup>, A. Deepti<sup>3</sup>, P. S. Baby Chakrapani<sup>3</sup>, M. Sabeena<sup>1</sup>

<sup>1</sup> Department of Physics, Cochin University of Science, Kochi, Kerala and Technology, Kochi, Kerala, India (India)

<sup>2</sup> Glass & Advanced Materials Division, Bhabha Atomic Research Centre, Mumbai, Maharashtra (India)

<sup>3</sup> Center for Neuroscience, Department of Biotechnology, Cochin University of Science and Technology, Kochi, Kerala, India (India)

(2PT74) Luminescent Metal-Chelating Pt(II) Complexes for Targeting Metal-Induced Protein Oligomerization

\*Isabella Silvia Rimoldi<sup>1</sup>, Matteo Boglioli<sup>1</sup>, Isabella Rimoldi<sup>1</sup>, Giorgio Facchetti<sup>1</sup>

<sup>1</sup> Department of Pharmaceutical Sciences (DiSFarm), University of Milan (Italy)

■ September 24 (Thu)

Plenary

Venue: Lecture Hall A (3F of ILAS bldg.)

**Plenary** *Chair: Jiajia Zhou*

09:00 - 10:00  
(3P-01) Extending the Frontiers of Bioimaging Using Lanthanide Nanoparticles  
\*Lingdong Sun<sup>1</sup>, Chun-Hua Yan<sup>1</sup>  
<sup>1</sup> Peking University(China)

**Plenary** *Chair: Daniel Jaque Garcia*

10:00 - 11:00  
(3P-02) Turning Scattering into Vision  
\*Xiaogang Liu<sup>1</sup>  
<sup>1</sup> National University of Singapore(Singapore)

## ■ September 24 (Thu)

### Lecture Hall A

Venue: 3F of ILAS bldg.

#### Nanomaterial/Upconversion *Chairs: Pieter Dorenbos, Martin Nikl*

11:20 - 11:50

(3A-01) From Synthesis to Sensing: Designing Luminescent Ln-Doped Nanoparticles

\*Eva Hemmer<sup>1</sup>

<sup>1</sup> University of Ottawa, Department of Chemistry and Biomolecular Sciences(Canada)

#### Persistent phosphor *Chairs: Pieter Dorenbos, Martin Nikl*

14:00 - 14:30

(3A-02) Energy storage in persistent phosphors: mechanism, limitations and workarounds

\*Philippe Smet<sup>1</sup>, Daniel Rytz<sup>2</sup>, Pieter Geiregat<sup>1</sup>, David Van der Heggen<sup>1</sup>

<sup>1</sup> Ghent University(Belgium)

<sup>2</sup> Brevalor Sarl(Switzerland)

14:30 - 15:00

(3A-03) Advancements in Persistent Phosphors: Hole-Detrapping, Electric Charging and Defect-Controlled Transparent Ceramics

\*Jumpei Ueda<sup>1</sup>

<sup>1</sup> Japan Advanced Institute of Science and Technology(Japan)

15:00 - 15:30

(3A-04) Trap-Engineered Organic Luminescent Materials for Persistent and Stimulated Emission

\*Ryota Kabe<sup>1</sup>

<sup>1</sup> Okinawa Institute of Science and Technology Graduate University(Japan)

15:30 - 15:50

(3A-05) Shedding Light on Afterglow: New Methods to Rationalize Persistent Luminescent Materials

\*Gabriel Lozano<sup>1</sup>, Manuel Romero<sup>1</sup>, Victor Castaing<sup>2</sup>, Hernán Míguez<sup>1</sup>

<sup>1</sup> Institute of Materials Science of Seville, Spanish National Research Council (CSIC), Seville.(Spain)

<sup>2</sup> Laboratoire de Physique de la Matière Condensée (PMC), CNRS, Ecole Polytechnique-Institut Polytechnique de Paris(France)

15:50 - 16:10

(3A-06) Near-Infrared Luminescence of Ce<sup>3+</sup>-Doped  $\alpha$ -YFS

\*Yuuki Kitagawa<sup>1</sup>, Kenji Shinozaki<sup>1</sup>, Jumpei Ueda<sup>2</sup>

<sup>1</sup> National Institute of Advanced Industrial Science and Technology (AIST)(Japan)

<sup>2</sup> Japan Institute of Advanced Science and Technology (JAIST)(Japan)

#### Scintillator *Chairs: Yuriy Zorenko, Go Okada*

16:40 - 17:10

(3A-07) Heavy perovskite and garnet single crystal scintillators: state of art and perspectives

\*Martin Nikl<sup>1</sup>

<sup>1</sup> Institute of Physics of the Czech Academy of Sciences(Czech Republic)

17:10 - 17:40

(3A-08) Recent research on near infrared emitting scintillators

\*Takayuki Yanagida<sup>1</sup>, Keita Miyajima<sup>1</sup>, Kai Okazaki<sup>1</sup>, Takumi Kato<sup>1</sup>, Daisuke Nakauchi<sup>1</sup>, Noriaki Kawaguchi<sup>1</sup>

<sup>1</sup> Nara Institute of Science and Technology(Japan)

17:40 - 18:00

(3A-09) Bypassing the Self-Absorption Limit in CsPbBr<sub>3</sub> Scintillators via Tandem Heterostructures with Copper-Based Halide

\*Chao-Yu Peter Chen<sup>1</sup>

<sup>1</sup> Dept. Photonics, National Cheng Kung University(Taiwan)

18:00 - 18:20

(3A-10) Persistent phosphorescence and dual emission phosphors for neuromorphic photonic computing

\*Rute AS Ferreira<sup>1</sup>, Lilia MS Dias<sup>2</sup>, Rita Bastos<sup>2,3</sup>, Lianshe Fu<sup>1</sup>, Albano Neto<sup>4</sup>, Paulo S André

<sup>1</sup> Department of Physics and CICECO – Aveiro Institute of Materials, University of Aveiro, 3810-193 Aveiro, Portugal(Portugal)

<sup>2</sup> Instituto de Telecomunicações, Instituto Superior Técnico, Universidade de Lisboa, 1049-001 Lisbon, Portugal(Portugal)

<sup>3</sup> Department of Electrical and Computer Engineering, Instituto Superior Técnico, Universidade de Lisboa, 1049-001 Lisbon, Portugal (Portugal)

<sup>4</sup> Department of Molecular Theory and Spectroscopy, Max Planck Institut(Germany)

18:20 - 18:40

(3A-11) Ultrafast Scintillation from Lanthanide-Doped Nanocrystals to Millimeter-Scale Assemblies

\*Parivash Moradifar<sup>1</sup>

<sup>1</sup> Stanford University(USA)

## ■ September 24 (Thu)

### Lecture Hall B

Venue: 3F of ILAS bldg.

#### Organic molecule/MOF/Complex/OLED *Chairs: Takayuki Nakanishi, Yuichi Hirai*

11:20 - 11:50

(3B-01) Molecular and its Aggregation Design of Hexadentate Organic Ligands for the Rare Earth Luminescence

\*Miki Hasegawa<sup>1</sup>

<sup>1</sup> Aoyama Gakuin University(Japan)

#### Organic molecule/MOF/Complex/OLED *Chairs: Takayuki Nakanishi, Yuichi Hirai*

14:00 - 14:30

(3B-02) Disordered States and Phase Transitions of Metal-Organic Frameworks for Optoelectronic Functions

\*Satoshi Horike<sup>1</sup>

<sup>1</sup> Kyoto University(Japan)

14:30 - 15:00

(3B-03) Luminescent lanthanide coordination polymers and aggregates for environmental sensing applications

\*Yasuchika Hasegawa<sup>1</sup>

<sup>1</sup> Hokkaido University(Japan)

15:00 - 15:30

(3B-04) Bridging Molecules and Nanoparticles: Composition-Controlled Luminescence in Molecular Cluster Aggregates

\*Muralee Murugesu<sup>1</sup>

<sup>1</sup> University of Ottawa(Canada)

15:30 - 16:00

(3B-05) Exploring functions and properties of lanthanide complexes at nanoscale

\*Shun Omagari<sup>1</sup>, Eisuke Hirao<sup>1</sup>, Shun Yoneda<sup>1</sup>, Martin Vacha<sup>1</sup>

<sup>1</sup> Institute of Science Tokyo(Japan)

16:00 - 16:20

(3B-06) Phosphorescent Metal Complexes for Optoelectronic Applications

\*Wai-Yeung Wong<sup>1</sup>

<sup>1</sup> The Hong Kong Polytechnic University(Hong Kong)

#### Thermometer *Chairs: Michele Back, Eva Hemmer*

16:40 - 17:10

(3B-07) The Logic of Luminescence in Single-Molecule Magnets

\*Carlos D.S. Brites<sup>1</sup>, Jérôme R. M. Long<sup>2</sup>, Luís D. Carlos<sup>1</sup>

<sup>1</sup> Phantom-g, CICECO-Aveiro Institute of Materials, Physics Department, University of Aveiro,(Portugal)

<sup>2</sup> ICGM, Univ. Montpellier, CNRS, ENSCM, Montpellier, 34090 France(France)

17:10 - 17:40

(3B-08) Luminescence Thermometry Beyond the Diffraction Limit

\*Andrea Pickel<sup>1</sup>

<sup>1</sup> The University of Texas at Austin(USA)

17:40 - 18:00

(3B-09) When Traps Talk and Mn<sup>2+</sup> Listens: A New Route to Thermal Imaging

\*Lukasz Marciniak<sup>1</sup>, Yuka Abe<sup>1</sup>, Maja Szymczak<sup>1</sup>, Justyna Zeler<sup>2</sup>

<sup>1</sup> Institute of Low Temperature and Structure Research PAS(Poland)

<sup>2</sup> Faculty of Chemistry, University of Wrocław(Poland)

18:00 - 18:20

(3B-10) Merging the fields of luminescent thermometry and ferroelectricity by functionalizing cyanido metal complexes

\*Szymon Chorazy<sup>1</sup>, Pawel J. Bonarek<sup>1,2</sup>, Michal Liberka<sup>1</sup>, Mikolaj Zychowicz<sup>1,2</sup>, Jan Rzepiela<sup>1</sup>, Jakub J. Zakrzewski<sup>1,3</sup>, Karol Wolski<sup>1</sup>, Junhao Wang<sup>4</sup>, Hiroko Tokoro<sup>4</sup>, Shin-ichi Ohkoshi<sup>3</sup>

<sup>1</sup> Faculty of Chemistry, Jagiellonian University(Poland)

<sup>2</sup> Doctoral School of Exact and Natural Sciences, Jagiellonian University(Poland)

<sup>3</sup> Department of Chemistry, School of Science, The University of Tokyo(Japan)

<sup>4</sup> Department of Materials Sciences, Institute of Pure and Applied Sciences, University of Tsukuba(Japan)

18:20 - 18:40

(3B-11) Are garnet phosphors underrated?

\*Eugeniusz Zych<sup>1</sup>, Dagmara Stefanowska<sup>1</sup>, Joanna Trojan-Piegza<sup>1</sup>, Justyna Zeler<sup>1</sup>, Paulina Bukowska<sup>1</sup>

<sup>1</sup> University of Wroclaw(Poland)

## ■ September 24 (Thu)

### Room C

Venue: Center bldg. South-wing Room #11

#### Spectroscopy *Chairs: Vasilii Khanin, Andrey Turshatov*

14:00 - 14:20

(3C-01) Phase-dependent spectroscopic properties of the  $\text{Nd}^{3+}$  ion in nano- and micro-crystalline  $\text{BiPO}_4$  hosts

\*Malgorzata Elzbieta Guzik<sup>1,2</sup>, K.A. Prokop<sup>1,2</sup>, Y Gouyot<sup>3</sup>, G Boulon<sup>3</sup>, M Wilk-Kozubek<sup>1</sup>, A.-V. Mudring<sup>4</sup>, J. Cybińska<sup>1,2</sup>

<sup>1</sup> Łukasiewicz Research Network – PORT Polish Center for Technology Development(Poland)

<sup>2</sup> University of Wrocław, Faculty of Chemistry(Poland)

<sup>3</sup> Univ Lyon, Institute Light Matter (iLM), CNRS-Claude Bernard/Lyon1University(France)

<sup>4</sup> Intelligent Advanced Materials (iAM), Department of Biological and Chemical Engineering and iNANO, Aarhus University(Denmark)

14:20 - 14:40

(3C-02) Decoding nonradiative pathways in  $\text{Cr}^{3+}$ -activated oxides via photoelectric spectroscopy

\*Natalia Majewska<sup>1,2</sup>, Milosz Pol<sup>2</sup>, Yu-Te Lee<sup>3</sup>, Yi-Ting Tsai<sup>3</sup>, Tadeusz Lesniewski<sup>2</sup>, Mu-Huai Fang<sup>3</sup>, Sebastian Mahlik<sup>2</sup>

<sup>1</sup> Faculty of Chemistry, Adam Mickiewicz University(Poland)

<sup>2</sup> Institute of Experimental Physics, Faculty of Mathematic, Physics, and Informatics, University of Gdańsk(Poland)

<sup>3</sup> Research Center for Applied Sciences, Academia Sinica(Taiwan)

14:40 - 15:00

(3C-03) Transition metals-based Luminescent Concentrators for broadband Short-Wave Infrared (SWIR) emission

\*Maël Plouet<sup>1</sup>, Nicolas Caraud<sup>1</sup>, François Balembois<sup>2</sup>, Pascal Loiseau<sup>1</sup>, Bruno Viana<sup>1</sup>

<sup>1</sup> Institut de Recherche de Chimie Paris (IRCP)(France)

<sup>2</sup> Institut d'Optique Graduate School(France)

15:00 - 15:20

(3C-04) I brought you erbium, you brought me cerium: Tailoring the  $\text{Er}^{3+}$  NIR emission in oxyfluoride tellurite glasses via  $\text{CeF}_3$  incorporation

\*Gaston Lozano Calderón<sup>1</sup>, Beatriz Helena Costa<sup>2</sup>, Víctor Anthony García Rivera<sup>3</sup>, Marcos de Oliveira Junior<sup>2</sup>, Euclides Marega Junior<sup>2</sup>, Danilo Manzani<sup>1</sup>

<sup>1</sup> São Carlos Institute of Chemistry, University of São Paulo(Brazil)

<sup>2</sup> São Carlos Institute of Physics, University of São Paulo(Brazil)

<sup>3</sup> Physics Department, Institute of Geosciences and Exact Sciences, São Paulo State University(Brazil)

15:20 - 15:40

(3C-05) Multifunctional Luminescence and Nonlinear Optical Properties of  $\text{Nd}^{3+}$ - $\text{Mn}^{2+}$ -Doped  $\text{ZnS}/\text{CaZnOS}$  Heterostructure

\*Marta Dominika Gordel-Wójcik<sup>1</sup>, Jan Moszczyński<sup>2</sup>, Przemysław Woźny<sup>2</sup>, Marcin Runowski<sup>2</sup>

<sup>1</sup> Faculty of Chemistry, University of Wrocław(Poland)

<sup>2</sup> Faculty of Chemistry, Adam Mickiewicz University(Poland)

15:40 - 16:00

(3C-06)  $\text{Eu}^{3+}$  - Doped Mixed Chalcogenide Phosphors for White LEDs

\*Margarita Samoli<sup>1</sup>, Jintao Kong<sup>1,2</sup>, Andries Meijerink<sup>1</sup>

<sup>1</sup> Utrecht University(Netherlands)

<sup>2</sup> Seaborough(Netherlands)

16:00 - 16:20

(3C-07) PHOTOLUMINESCENCE AN EFFECTIVE METHOD FOR THE NON-INVASIVE ANALYSIS OF GEMSTONES OF CULTURAL HERITAGE MASTERPIECES

\*Gérard Panczer<sup>1</sup>, Roxanne Bauer<sup>2</sup>, Andrea Pazery<sup>3</sup>

<sup>1</sup> ILM Lyon 1 University(France)

<sup>2</sup> DUGEM Lyon 1(France)

<sup>3</sup> Laboratoire français de Gemmologie(France)

**LED phosphor** *Chairs: Takashi Takeda, Malgorzata Elzbieta Guzik*

16:40 - 17:00

**(3C-08) Innovative Solid-State Fluorination Route to  $K_2SiF_6:Mn^{4+}$  Red-emitting Phosphor for High-Performance LED Systems**Chloé RAPATEL<sup>1</sup>, Philippe BOUTINAUD<sup>1</sup>, Tomy FALCON<sup>3</sup>, François REVERET<sup>3</sup>, Katia ARAUJO DA SILVA<sup>2</sup>, \*Damien BOYER<sup>1</sup><sup>1</sup> Clermont Auvergne INP(France)<sup>2</sup> University Clermont Auvergne(France)<sup>3</sup> CNRS(France)

17:00 - 17:20

**(3C-09) Disorder tolerance in LED phosphor host  $CaAlSiN_3$** \*Maryia Shymanovich<sup>1</sup>, Alexander Squires<sup>1</sup>, David Scanlon<sup>1</sup><sup>1</sup> University of Birmingham(UK)

17:20 - 17:40

**(3C-10) Understanding and fixing instability of Ce-doped garnet nanomaterials**\*Vasilii Khanin<sup>1</sup>, Freddy Rabouw<sup>2</sup>, Robin Vogel<sup>2</sup>, Federico Montanarella<sup>1</sup>, Atul Sontakke<sup>1</sup>, Jence Mulder<sup>1</sup>, Mohamed Tachikiri<sup>1</sup>, Mike Krames<sup>1,3</sup>, Marie Anne van de Haar<sup>1</sup><sup>1</sup> Seaborough BV(Netherlands)<sup>2</sup> Utrecht Univ.(Netherlands)<sup>3</sup> Arkesso LLC(USA)

17:40 - 18:00

**(3C-11) Highly Efficient Narrow-Band Green-Emitting Phosphors for Backlight Devices: Advancing High-Definition Display Technologies**\*Sudipta Som<sup>1</sup>, Jatin Dhanuka<sup>1</sup>, Monalisha Behera<sup>1</sup>, Somrita Dutta<sup>1</sup>, H. C. Swart<sup>2</sup><sup>1</sup> Shiv Nadar University Chennai, India(India)<sup>2</sup> University of the Free State(South Africa)

18:00 - 18:20

**(3C-12) Synthesis and Photoluminescence properties of  $Eu^{3+}$ -doped red-emitting phosphate phosphors for pc-WLED applications**\*Chitrkant Belodhiya<sup>1</sup>, D.P. Bisen<sup>1</sup>, Nameeta Brahme<sup>2</sup>, Ganesh Ram Banjare<sup>3</sup>, Sanjay Baghel<sup>1</sup>, Dipti Sahu<sup>1</sup>, Yugbodh Patle<sup>1</sup>, Kanchan Tiwari<sup>1</sup>, Kiran Verma<sup>1</sup>, Garima Dewangan<sup>1</sup>, J Aman Kunjam<sup>1</sup><sup>1</sup> SOS IN PHYSICS AND ASTROPHYSICS PT. RAVISHANKAR SHUKLA UNIVERSITY RAIPUR, 492010, INDIA(India)<sup>2</sup> Centre for Nano-Science and Nano Technology, Pt. Ravishankar Shukla University, Raipur, 492010, India (India)<sup>3</sup> Department of Physics, Government Engineering College, Raipur, 492015, India (India)

18:20 - 18:40

**(3C-13) Photonic nanomaterials of Nd/Yb-codoped oxides for technological applications: Structural, spectroscopic, and thermal studies**\*Lauro June Queiroz Maia<sup>1</sup><sup>1</sup> Physics Institute, Federal University of Goias(Brazil)

## ■ September 24 (Thu)

### Room D

Venue: Center bldg. West-wing Room #12

#### Thermometer *Chairs: Carlos D.S. Brites, Riccardo Marin*

14:00 - 14:20

(3D-01) Analysis of the nonradiative dynamics of the  $^5D_3$  of  $Tb^{3+}$  in huntite-type  $REAl_3(BO_3)_4$  (RE = Y, Gd, Lu)

\*Duong Pham Thuy<sup>1</sup>, Leonardo Ceccon<sup>2</sup>, Marco Bettinelli<sup>2</sup>, Fabio Piccinelli<sup>2</sup>, Markus Suta<sup>1</sup>

<sup>1</sup> Heinrich Heine University Düsseldorf (Germany)

<sup>2</sup> University of Verona and INSTM (Italy)

14:20 - 14:40

(3D-02) 808 nm near infrared excited  $Ho^{3+}$  and  $Tm^{3+}$  based metal-organic frameworks for luminescent thermometry and photothermal conversion

\*Helene Serier-Braut<sup>1</sup>, Albenc Nexha<sup>2</sup>, Dasheng Lu<sup>3</sup>, Maria Cintia Pujol<sup>2</sup>, Jaume Massons<sup>2</sup>, Patricia Haro Gonzalez<sup>4</sup>, Joan Josep Carvajal<sup>2</sup>

<sup>1</sup> CNRS, Institute of Materials Nantes, Nantes university (France)

<sup>2</sup> Univ. Rovira i Virgili, Dept. Química Física i Inorgànica, Campus Sescelades, E-43007, Tarragona (Spain)

<sup>3</sup> College of Rare Earths, Jiangxi University of Science and Technology, Ganzhou (China)

<sup>4</sup> Nanomaterials for Bioimaging Group, Facultad de Ciencias, Universidad Autónoma de Madrid (Spain)

14:40 - 15:00

(3D-03) Structural and luminescent properties of photoluminescent sensor for thermal history diagnostic in the 500-1000 °C range

\*Lisa Guibbert<sup>1,2,3</sup>, Etienne Copin<sup>2</sup>, Sandrine Duluard<sup>1</sup>, Philippe Brevet<sup>3</sup>, Florence Ansart<sup>1</sup>, Thierry Sentenac<sup>2</sup>

<sup>1</sup> Univ. Toulouse, Toulouse INP, CNRS, CIRIMAT (France)

<sup>2</sup> Univ Toulouse, IMT Mines Albi, INSA Toulouse, ISAE-SUPAERO, CNRS, ICA, Albi (France)

<sup>3</sup> Safran Helicopter Engines, Avenue Joseph Szydlowski, Bordes, 64510 (France)

15:00 - 15:20

(3D-04) Development of bismuth-doped orthovanadate nanoparticles for sprayable fast response temperature sensitive paints

\*Encarnacion Arroyo<sup>1</sup>, Victor Castaing<sup>2</sup>, Thierry Gacoin<sup>2</sup>, Corinne Chaneac<sup>3</sup>, Benoît Fond<sup>1</sup>

<sup>1</sup> Department of Aerodynamics, Aeroelasticity and Acoustics (DAAA), ONERA The French Aerospace Lab, Meudon, 92190 (France)

<sup>2</sup> Laboratoire de Physique de la Matière Condensée (PMC), CNRS, Ecole Polytechnique – Institut Polytechnique de Paris, Palaiseau, 91120 (France)

<sup>3</sup> Laboratoire de Chimie de la Matière Condensée de Paris (LCMCP), CNRS, Sorbonne Université, Paris, 75005 (France)

15:20 - 15:40

(3D-05) Internal Validation of Thermometric Readout via Dual Boltzmann and Stark Intensity Ratios in Upconverting Probes

\*Leonardo Saraiva<sup>1</sup>, Airtton Germano Bispo-Jr.<sup>2</sup>, Sergio Antonio Marques Lima<sup>1</sup>, Ana Maria Pires<sup>1</sup>

<sup>1</sup> São Paulo State University (UNESP) (Brazil)

<sup>2</sup> Institute of Chemistry, University of São Paulo (USP) (Brazil)

15:40 - 16:00

(3D-06) Mapping the Funnel of Life: Luminescent Nanoprobes as Reporters of Hydration-Water Structural Heterogeneity

\*Ramon Raposo Filho<sup>1</sup>, Carlos D.S. Brites<sup>1</sup>, Luís Carlos<sup>1</sup>, Nikita Panov<sup>2</sup>, Riccardo Marin<sup>2</sup>, Daniel Jaque<sup>2</sup>, Fernando Maturi<sup>2</sup>

<sup>1</sup> CICECO - University of Aveiro (Portugal)

<sup>2</sup> NanoBIG - Universidad Autónoma de Madrid (Spain)

#### Nanomaterial/Upconversion *Chairs: Yong Zhang, Kensuke Miyajima*

16:40 - 17:00

(3D-07) Ratiometric luminescent pH sensors based on lignin derived carbon quantum dots

\*Karolina Elzbieciak-Piecka<sup>1</sup>, Maja Szymczak<sup>1</sup>, Lukasz Marciniak<sup>1</sup>, Jelena Papan Djaniš<sup>2,3</sup>

<sup>1</sup> Institute of Low Temperature and Structure Research PAS Wrocław (Poland)

<sup>2</sup> Faculty of Chemistry and Chemical Technology, Univ. of Ljubljana (Slovenia)

<sup>3</sup> Centre of Excellence for Photoconversion, Vinča Institute of Nuclear Sciences, National Institute of the Republic of Serbia, Univ. of Belgrade (Serbia)

17:00 - 17:20

(3D-08)  $\text{Eu}^{3+}$  doped carbon dots for volatile organic compounds sensing: insights into structure and photoluminescence properties

\*Bruno Seiki Domingos Onishi<sup>1,2</sup>, Leonardo F Saraiva<sup>3</sup>, Valmor R Mastelaro<sup>4</sup>, Sidney J. L. Ribeiro<sup>5</sup>, Boris Mizaikoff<sup>2</sup>, Danilo Manzani<sup>1</sup>

<sup>1</sup> São Carlos Institute of Chemistry, USP, São Carlos(Brazil)

<sup>2</sup> Institute of Analytical and Bioanalytical Chemistry, Ulm University, Ulm(Germany)

<sup>3</sup> School of Technology and Sciences, UNESP, Presidente Prudente, SP(Brazil)

<sup>4</sup> São Carlos Institute of Physics, USP, São Carlos(Brazil)

<sup>5</sup> Institute of Chemistry, UNESP, Araraquara(Brazil)

17:20 - 17:40

(3D-09) Wet Chemistry Control of Visible and Near-Infrared  $\text{Er}^{3+}$  Luminescence in  $\text{YPO}_4$  Nanocrystals

Rocio Molina Motos<sup>1</sup>, Jose Francisco Fernandez Iozano<sup>1</sup>, \*Victor Fuertes de la Llave<sup>1</sup>

<sup>1</sup> The Institute of Ceramics and Glass (ICV-CSIC)(Spain)

17:40 - 18:00

(3D-10) Temperature behaviour and stability of luminescence of  $\text{LaAlO}_3$  sol-gel nanoparticles under synchrotron excitation

\*Oksana Chukova<sup>1</sup>, Aleksei Kotlov<sup>1</sup>, Tetiana Voitenko<sup>2</sup>, Alina Popova<sup>3</sup>, Ihor Fesych<sup>4</sup>

<sup>1</sup> Deutsches Elektronen-Synchrotron DESY(Germany)

<sup>2</sup> University of Cambridge(UK)

<sup>3</sup> V. N. Karazin Kharkiv National University(Ukraine)

<sup>4</sup> Taras Shevchenko National University of Kyiv(Ukraine)

18:00 - 18:20

(3D-11) Photoluminescence and energy transfer dynamics in  $\text{Ce}^{3+}/\text{Tb}^{3+}$  doped  $\text{BaF}_2$  nanoparticles for latent fingerprint detection and anti-counterfeit applications

\*Ningombam Yaiphaba<sup>1</sup>, Henasurkishore Oinam<sup>1</sup>

<sup>1</sup> Manipur University(India)

## ■ September 24 (Thu)

### Room E

Venue: Base of ILAS bldg.

#### Scintillator *Chairs: Takayuki Yanagida, Masanori Koshimizu*

14:00 - 14:20

(3E-01) Synchrotron radiation in the luminescence research: comparative study of the single crystals and films of Ce<sup>3+</sup> doped Gd<sub>3</sub>(Al,Ga)<sub>5</sub>O<sub>12</sub> garnets, (Gd,Y,Lu)AlO<sub>3</sub> perovskites and (Gd,Y,Lu)<sub>2</sub>SiO<sub>5</sub> orthosilicates

\*Yuriy Zorenko<sup>1</sup>

<sup>1</sup> Kazimierz Wielki University in Bydgoszcz(Poland)

14:20 - 14:40

(3E-02) Growth and characterization of Y<sub>2</sub>SiO<sub>5</sub>:Ce,Mg single crystals

\*Herbert Kindl<sup>1,2</sup>, Jan Pejchal<sup>1</sup>, Romana Kučerková<sup>1</sup>, Alena Beitlerová<sup>1</sup>, Jiří Antonín Mareš<sup>1</sup>, Martin Nikl<sup>1</sup>

<sup>1</sup> Institute of Physics of the Czech Academy of Sciences(Czech Republic)

<sup>2</sup> Department of Inorganic Chemistry, University of Chemistry and Technology, Prague (UCT Prague) (Czech Republic)

14:40 - 15:00

(3E-03) Challenges of growth of LaAlO<sub>3</sub>:Ce,Cr,Mg single-crystals by micro-pulling-down and its luminescence mechanism

\*Frantisek Zajic<sup>1,2</sup>, Frantisek Hajek<sup>1</sup>, Petra Zemenova<sup>1</sup>, Jan Pejchal<sup>1</sup>

<sup>1</sup> Institute of Physics of the Czech Academy of Sciences (FZU CAS)(Czech Republic)

<sup>2</sup> Faculty of Nuclear Sciences and Physical Engineering of the Czech Technical University in Prague (FNSPE CTU)(Czech Republic)

15:00 - 15:20

(3E-04) Scintillation of Cd<sub>3</sub>SiO<sub>5</sub> pure and 1%Pr<sup>3+</sup> doped

\*Elena Iraê Santos<sup>1</sup>, Flávio Maron Vichi<sup>2</sup>

<sup>1</sup> Departament of Fundamental Chemistry at University of São Paulo(Brazil)

<sup>2</sup> Departament of Fundamental Chemistry, University of São Paulo(Brazil)

15:20 - 15:40

(3E-05) Reactive Nanocasting as a Route to Rare-Earth Silicate Nanoscintillators for X-ray Photodynamic Therapy

\*Rowan Schokkaert<sup>1</sup>, Domitille Mostacchi<sup>1</sup>, Christophe Dorandeu<sup>1</sup>, Christophe Dujardin<sup>2</sup>, Tangi Aubert<sup>1</sup>, Aurélie Bessière<sup>1</sup>

<sup>1</sup> ICGM, University of Montpellier, CNRS, ENSCM, Montpellier(France)

<sup>2</sup> Universite Lyon1, CNRS UMR5306, ILM, 69622 Villeurbanne(France)

15:40 - 16:00

(3E-06) Ca co-doping Effect on Scintillation Properties of Y<sub>3</sub>(Al,Ga)<sub>5</sub>O<sub>12</sub>:Ce Garnet Single Crystals

\*Hisato Suezumi<sup>1,2</sup>, Kei Kamada<sup>2,3,4</sup>, Masao Yoshino<sup>2,3</sup>, Rikito Murakami<sup>2,3</sup>, Satoshi Ishizawa<sup>2,3</sup>, Yuui Yokota<sup>2,4</sup>, Akira Yoshikawa<sup>2,3,4</sup>

<sup>1</sup> Graduate School of Engineering, Tohoku University(Japan)

<sup>2</sup> Institute for Materials Research, Tohoku University(Japan)

<sup>3</sup> C&A corporation(Japan)

<sup>4</sup> New Industry Creation Hatchery Center, Tohoku University(Japan)

16:00 - 16:20

(3E-07) Luminescence properties of Ce<sup>3+</sup>-doped rare-earth sulfohalides

\*Vojtech Vanecek<sup>1</sup>, Vitezslav Jary<sup>1</sup>, Lubomir Havlak<sup>1</sup>, Romana Kucerkova<sup>1</sup>, Alena Beitlerova<sup>1</sup>, Vladimir Babin<sup>1</sup>, Frantisek Zajic<sup>1,2</sup>, Jan Barta<sup>2</sup>

<sup>1</sup> FZU AVCR(Czech Republic)

<sup>2</sup> FNSPE CTU(Czech Republic)

#### Persistent phosphor *Chairs: Chao-Nan Xu, Philippe Smet*

16:40 - 17:00

(3E-08) Persistent Luminescence in Nanocomposite Thin Films: Photonic Control of Trap Dynamics

\*Victor Castaing<sup>1,2</sup>, Thierry Gacoin<sup>1</sup>, Manuel Romero<sup>2</sup>, Gabriel Lozano<sup>2</sup>, Hernán Míguez<sup>2</sup>

<sup>1</sup> Laboratoire de Physique de la Matière Condensée (PMC), CNRS, Ecole Polytechnique(France)

<sup>2</sup> Institute of Materials Science of Seville, Spanish National Research Council – University of Seville(Spain)

17:00 - 17:20

## (3E-09) The (Glow)curvy Road to Modelling Persistent Phosphors

\*Verena Fritz<sup>1</sup>, David Van der Heggen<sup>1</sup>, Philippe F. Smet<sup>1</sup><sup>1</sup> Ghent University(Belgium)

17:20 - 17:40

(3E-10) Unraveling the Electronic Structure and Multi-Modal Luminescence of Sm<sup>3+</sup> Doped Hexagonal BaZrSi<sub>3</sub>O<sub>9</sub> Phosphor\*Nameeta Brahme<sup>1</sup>, Akesh Kumar<sup>1</sup>, Kanchan Tiwari<sup>1</sup><sup>1</sup> School of Studies in Physics and Astrophysics, Pt. Ravishankar Shukla University, Raipur Chhattisgarh, India(India)**Mechanoluminescence** *Chairs: Philippe Smet, Chao-Nan Xu*

17:40 - 18:00

## (3E-11) Elastic mechanoluminescence of rare-earth free ZnO for self-powered near-infrared emissions

\*Tomoki Uchiyama<sup>1,2</sup>, Koki Otonari<sup>2</sup>, Reona Omori<sup>2</sup>, Guangfa Yang<sup>2</sup>, Eiji Nishibori<sup>3</sup>, Ying Chen<sup>4</sup>, Xu-Guang Zheng<sup>1,5</sup>, Chao-Nan Xu<sup>1,2</sup><sup>1</sup> Department of Material Science and Engineering, Faculty of Engineering, Tohoku University(Japan)<sup>2</sup> Department of Material Science and Engineering, Graduate School of Engineering, Tohoku University(Japan)<sup>3</sup> Department of Physics, Faculty of Pure and Applied Sciences, University of Tsukuba(Japan)<sup>4</sup> Global Learning Center, Tohoku University(Japan)<sup>5</sup> Department of Physics, Faculty of Science and Engineering, Saga University(Japan)

18:00 - 18:20

(3E-12) Sound- and force-activated luminescence of Mn<sup>2+</sup>-Nd<sup>3+</sup> for excitation-light-free imaging and thermometry: application in biological systems\*Jan Moszczyński<sup>1</sup>, Kevin Soler-Carracedo<sup>1</sup>, Justyna Barzowska<sup>2</sup>, Przemysław Woźny<sup>1</sup>, Teng Zheng<sup>3</sup>, Sebastian Mahlik<sup>2</sup>, Dengfeng Peng<sup>4</sup>, Marcin Runowski<sup>1</sup><sup>1</sup> Adam Mickiewicz University(Poland)<sup>2</sup> University of Gdansk(Poland)<sup>3</sup> Hangzhou City University(China)<sup>4</sup> Shenzhen University(China)

18:20 - 18:40

## (3E-13) Luminescent mechanochromic materials based on copper(I) iodide complexes

\*Alexia Rocheteau<sup>1</sup>, Hélène Serier-Brault<sup>1</sup>, Sandrine Perruchas<sup>1</sup><sup>1</sup> Nantes Université, CNRS, Institut des Matériaux de Nantes Jean Rouxel, IMN, F-44000 Nantes, France(France)

## ■ September 24 (Thu)

### Area I

Venue: Base of Human and Environmental bldg.

Poster core times differ for odd- and even-numbered posters.

**Odd-numbered posters (01, 03, 05, ...): First poster session (12:20-13:30)**

**Even-numbered posters (02, 04, 06, ...): Second poster session (18:50-20:00)**

#### Spectroscopy

(3PT01) Investigating the Energy Transfer between  $\text{Eu}^{2+}$  and  $\text{Mn}^{2+}$  ions in  $\text{SrZnCl}_4$

\*Bianca Tuschhoff<sup>1</sup>, Claudia Wickleder<sup>1</sup>

<sup>1</sup> University of Siegen(Germany)

(3PT02) Phototransferred glow curves of potassium feldspar ( $\text{KAlSi}_3\text{O}_8$ )

\*Roberto Turibio Ebina Kawanaka Martins<sup>1</sup>, Makaiko Chithambo<sup>2</sup>, Neilo Marcos Trindade<sup>1</sup>

<sup>1</sup> Universidade de São Paulo(Brazil)

<sup>2</sup> Rhodes University(South Africa)

(3PT03) The potential of *N*-phosphorylated carboxamides with heteroaromatic rings as ligands sensitizing UV and NIR  $\text{Ln}^{3+}$  emission utilizing back energy transfer

\*Justyna Nasalska<sup>1</sup>, Albano Carneiro Neto<sup>2</sup>, Viktor Trush<sup>3</sup>, Alina Bieńko<sup>1</sup>, Agata Białońska<sup>1</sup>, Fernando Maturi<sup>4</sup>, Volodymyr Amirkhanov<sup>3</sup>, Luis Carlos<sup>4</sup>, Oscar Malta<sup>5</sup>, Paula Gawryszewska<sup>1</sup>

<sup>1</sup> University of Wrocław(Poland)

<sup>2</sup> University of Santiago de Compostela(Spain)

<sup>3</sup> Kyiv National Taras Shevchenko University(Ukraine)

<sup>4</sup> University of Aveiro(Portugal)

<sup>5</sup> Federal University of Pernambuco(Brazil)

(3PT04) Correlation Between Optically Stimulated Luminescence and Thermoluminescence in Brazilian Fluorapatites

\*Frantz Sagbvagare Vieira<sup>1,2</sup>, Matheus Cavalcanti dos Santos Nunes<sup>1,2</sup>, Neilo Marcos Trindade<sup>1</sup>

<sup>1</sup> University of São Paulo (USP)(Brazil)

<sup>2</sup> São Paulo State University "Júlio Mesquita Filho" (UNESP)(Brazil)

(3PT05) Evaluation of  $\text{Eu}^{3+}$  site occupancy in  $\text{Sr}_3\text{Ca}_2(\text{PO}_4)_3\text{F}$  by spectroscopic analysis

\*Goro Aso<sup>1,2</sup>, Masaaki Yamazaki<sup>2</sup>, Jumpei Ueda<sup>1</sup>

<sup>1</sup> Japan Advanced Institute of Science and Technology(Japan)

<sup>2</sup> SUMITA Optical Glass Corporation Inc.(Japan)

(3PT06) Tailoring Broadband Near-Infrared Luminescence of  $\text{Gd}_3\text{Ga}_5\text{O}_{12}:\text{Cr}^{3+}$  by  $\text{Zn}^{2+}/\text{Zr}^{4+}$  Co-Substitution

\*Meldra Kemere<sup>1</sup>, Pavels Rodionovs<sup>1</sup>, Anatolijs Sarakovskis<sup>1</sup>

<sup>1</sup> Institute of Solid State Physics, University of Latvia(Latvia)

(3PT07) Structural Investigation of Lanthanide  $\beta$ -Diketonate Complexes Using Electron Paramagnetic Resonance (EPR) and Luminescence Spectroscopy

\*Marcelo Cecconi Portes<sup>1</sup>, Lucca Blois<sup>1</sup>, Paulo Roberto da Silva Santos<sup>2,1</sup>, Livia Benitez<sup>1</sup>, Lucas Carvalho Veloso Rodrigues<sup>1</sup>, Hermi Felinto de Brito<sup>1</sup>

<sup>1</sup> University of São Paulo(Brazil)

<sup>2</sup> Instituto de Pesquisas Energéticas e Nucleares(Brazil)

(3PT08) Local-Structure Engineering of Bismuth Active Centers in Bi/Ge Co-Doped Silica Glass and Fiber for Ultrabroadband NIR Emission

\*Xin Li<sup>1</sup>, Ruilin Zheng<sup>2</sup>, Lili Hu<sup>1</sup>

<sup>1</sup> Shanghai Institute of Optics and Fine Mechanics, Chinese Academy of Sciences(China)

<sup>2</sup> College of Science & College of Electronic and Optical Engineering, Nanjing University of Posts and Telecommunications(China)

(3PT09) Luminescence and VUV excitation spectroscopy of  $\text{Mg}_2\text{TiO}_4$  spinel and its electronic structure

\*Vladimir Pakratov<sup>1</sup>, Miroslav D Dramicanin<sup>2</sup>, Katarina Milenkovic<sup>2</sup>, Mina Medic<sup>2</sup>, Kirill Chernenko<sup>3</sup>, Leonid L Rusevich<sup>1</sup>, Eugene A Kotomin<sup>1</sup>

<sup>1</sup> Institute of Solid State Physics, University of Latvia(Latvia)

<sup>2</sup> Vinča Institute of Nuclear Sciences – National Institute of the Republic of Serbia(Serbia)

<sup>3</sup> MAX IV Laboratory, Lund University(Sweden)

(3PT10) *In situ* reduction of Europium(III) using Ammonium Fluoride\*Gustavo Cecconi Portes<sup>1</sup>, Elaine de Mattos<sup>1</sup>, Marcelo Portes<sup>1</sup>, Israel Costa<sup>1</sup>, Hermi de Brito<sup>1</sup>, Lucas Rodrigues<sup>1</sup><sup>1</sup> Institute of Chemistry of the University of São Paulo(Brazil)(3PT11) Influence of A-site cations on the photoluminescence properties of Eu<sup>3+</sup>-doped AOF (A = La, Y, Lu)\*TOAN DUC NGUYEN<sup>1</sup>, Sangwon Wi<sup>1</sup>, Yunsang Lee<sup>1</sup><sup>1</sup> Department of Physics and Integrative Institute of Basic Sciences, Soongsil University(Korea)

## (3PT12) Unveiling the local environment of rare earth-doped glass-forming metal-organic frameworks

\*Leandro Olivetti Estevam da Silva<sup>1</sup>, Beatriz Helena Costa<sup>2</sup>, Bruno Seiki Domingos Onishi<sup>1</sup>, Marcos de Oliveira Júnior<sup>2</sup>, Danilo Manzani<sup>1</sup><sup>1</sup> São Carlos Institute of Chemistry - University of São Paulo(Brazil)<sup>2</sup> São Carlos Institute of Physics - University of São Paulo(Brazil)(3PT13) Luminescence of Pr<sup>3+</sup> and Yb<sup>3+</sup> incorporated into Ca<sub>1-x</sub>Sr<sub>x</sub>TiO<sub>3</sub>\*Germán López-Pacheco<sup>1</sup>, Enrique Barrera-Calva<sup>1</sup>, Federico González<sup>1</sup><sup>1</sup> Universidad Autónoma Metropolitana Unidad Iztapalapa(Mexico)(3PT14) Luminescence Characterization of YTaO<sub>4</sub>, CrTaO<sub>4</sub>, and YNbO<sub>4</sub> Relevant to High-Temperature Coatings\*Marina Konuhova<sup>1</sup>, Zhakyp Karipbayev<sup>2</sup>, Arturas Zalga<sup>3</sup>, Jevgenijs Gabrusenoks<sup>1</sup>, Anatoli I. Popov<sup>1</sup><sup>1</sup> Institute of Solid State Physics, University of Latvia(Latvia)<sup>2</sup> L.N. Gumilyov Eurasian National University(Kazakhstan)<sup>3</sup> Institute of Chemistry, Faculty of Chemistry and Geosciences, Vilnius University(Lithuania)

## (3PT15) Radiophotoluminescence Properties of Ag-doped SABS Glass

\*Caroline Paschoal Fernandes<sup>1,3</sup>, Go Okada<sup>2</sup>, Rene Rojas Rocca<sup>3</sup>, Sonia Hatsue Tatumi<sup>1,3</sup><sup>1</sup> Department of Electrical Engineering, University of São Paulo(Brazil)<sup>2</sup> Co-creative Research Center for Industrial Science and Technology, Kanazawa Institute of Technology(Japan)<sup>3</sup> Department of Marine Sciences, Federal University of São Paulo(Brazil)(3PT16) Luminescence Response of BaMgF<sub>4</sub> Ceramics under VUV Synchrotron IrradiationAssel V. Strelkova<sup>2</sup>, Zhakyp Karipbayev<sup>2</sup>, Amangeldy M. Zhunusbekov<sup>2</sup>, Marina Konuhova<sup>1</sup>, \*Anatoli I. Popov<sup>1</sup><sup>1</sup> Institute of Solid State Physics, University of Latvia(Latvia)<sup>2</sup> L.N. Gumilyov Eurasian National University, Astana (Kazakhstan)

## (3PT17) PFAS Detection Powered by Lanthanide Ion Luminescence

\*Leonardo Ceccon<sup>1</sup>, Silvia Ruggieri<sup>1</sup>, Massimo Fant<sup>2</sup>, Alessandro Pellizzaro<sup>2</sup>, Fabio Piccinelli<sup>1</sup><sup>1</sup> University of Verona(Italy)<sup>2</sup> Acque del Chiampo S.P.A.(Italy)(3PT18) OSL Properties of Ti and Al doped LiMgPO<sub>4</sub> samples\*Sonia Hatsue Tatumi<sup>1,2</sup>, Noemi Aguiar Silva<sup>1</sup>, Anna Carolina Zampieri de Oliveira<sup>1</sup>, Caroline Paschoal Fernandes<sup>2</sup>, Isadora Augusta Machado Duque<sup>2</sup>, Marcio Yee<sup>1</sup>, Rene Rojas Rocca<sup>1</sup>, Alvaro de Farias Soares<sup>1</sup><sup>1</sup> Federal University of São Paulo(Brazil)<sup>2</sup> University of São Paulo(Brazil)(3PT19) White Light Emission of Ce<sup>3+</sup>/Tb<sup>3+</sup> Doped Bismuth Borate Glasses\*Deniz KOCYIGIT KAPLAN<sup>1</sup><sup>1</sup> Pamukkale University(Turkey)

## (3PT20) Thermoluminescent properties of the GreenSpar lunar regolith simulant exposed to beta irradiation

\*Isabela Alves Ferreira<sup>1,2</sup>, Caio Morelli Vicentini<sup>1</sup>, Matheus Cavalcanti dos Santos Nunes<sup>1,2</sup>, Carina Ulsen<sup>1</sup>, Luiz Gustavo Jacobsohn<sup>3</sup>, Neilo Marcos Trindade<sup>1</sup><sup>1</sup> University of São Paulo(Brazil)<sup>2</sup> São Paulo State University(Brazil)<sup>3</sup> Clemson University(USA)

## (3PT21) Tuning optical properties of densified silica glass via high pressure and ultrafast laser excitation

\*Junpei Ueda<sup>1</sup>, Misora Tsubone<sup>1</sup>, Yasuhiko Shimotsuma<sup>1</sup>, Yoshio Kono<sup>2</sup>, Keita Kobayashi<sup>3</sup><sup>1</sup> Kyoto university (Japan)<sup>2</sup> Kwansei Gakuin University(Japan)<sup>3</sup> Japan Atomic Energy Agency(Japan)

## (3PT22) Ytterbium-based coordination compounds: Solid-state emission quantum yield measurement approach

\*Ewa Kasprzycka<sup>1</sup>, Albano N. Carneiro Neto<sup>2</sup>, Viktor A. Trush<sup>3</sup>, Volodymyr M. Amirkhanov<sup>3</sup>, Oscar L. Malta<sup>4</sup>, Paula Gawryszewska-Wilczyńska<sup>1</sup><sup>1</sup> University of Wrocław(Poland)<sup>2</sup> University of Santiago de Compostela(Spain)<sup>3</sup> Kyiv National Taras Shevchenko University (Ukraine)<sup>4</sup> Universidade Federal de Pernambuco(Brazil)

**(3PT23) The Origin of Luminescence in Bi-Doped Silica Glass: Local Structures-Modulated Atomic and Electronic Structures of Bi Species**\*Jiayuan Chen<sup>1</sup>, Ruilin Zheng<sup>1,2</sup>, Lili Hu<sup>1</sup><sup>1</sup> Shanghai Institute of Optics and Fine Mechanics(China)<sup>2</sup> Nanjing University of Posts and Telecommunications(China)**(3PT24) Luminescence and decay kinetics of magnesium aluminate spinel crystals irradiated with swift heavy ions at different temperatures**\*Abdirash Akilbekov<sup>1</sup>, Vladimir Skuratov<sup>2</sup>, Nikita Kirilkin<sup>2</sup>, Arseny Kiryakov<sup>3</sup>, Zhulduz Ospanova<sup>1</sup>, Alma Dauletbekova<sup>1</sup><sup>1</sup> L N Gumilyov Eurasian National University(Kazakhstan)<sup>2</sup> Joint Institute for Nuclear Research, Dubna(Russia)<sup>3</sup> Institute of Solid State Chemistry, UB of RAS, Ekaterinburg(Russia)**(3PT25) Regulating the formation of perovskite quantum dots in glass**\*Kejie Huang<sup>1</sup>, Ruilin Zheng<sup>1,2</sup>, Jian Xu<sup>1,3</sup>, Setsuhisa TANABE<sup>1</sup><sup>1</sup> Kyoto University(Japan)<sup>2</sup> Nanjing University of Posts and Telecommunications(China)<sup>3</sup> Global Environmental Studies (GSGES)(Japan)**(3PT26) Unusual photophysical behavior of homo- and heterobinuclear lanthanide compounds generated by short Ln-O-Ln bridges.**\*Aneta Lipa<sup>1</sup><sup>1</sup> University of Wroclaw(Poland)**(3PT27) Eu<sup>3+</sup> Luminescence as an Optical Probe for Thermal and Pressure-Induced Phase Transition in LaGaO<sub>3</sub> Perovskite**\*Koki Meguro<sup>1</sup>, Jian Xu<sup>1,2</sup>, Takayuki Nakanishi<sup>3</sup>, Setsuhisa TANABE<sup>1,2</sup><sup>1</sup> Kyoto university(Japan)<sup>2</sup> Global Environmental Studies (GSGES), Kyoto University(Japan)<sup>3</sup> National Institute for Materials Science (NIMS)(Japan)**(3PT28) NIR photon downshifting via host sensitization in Yb<sup>3+</sup>-doped SrSnO<sub>3</sub>**\*Isela Padilla Rosales<sup>1</sup>, Germán López Pacheco<sup>3</sup>, Federico Gonzalez<sup>3</sup>, Elizabeth Chavira<sup>2</sup>, Omar Guillermo Morales<sup>1</sup><sup>1</sup> Instituto de Ciencias Aplicadas y Tecnología, Universidad Nacional Autónoma de México(Mexico)<sup>2</sup> Instituto de Investigaciones en Materiales, Universidad Nacional Autónoma de México(Mexico)<sup>3</sup> Departamento de Ingeniería de Procesos e Hidráulica, Universidad Autónoma Metropolitana-Iztapalapa(Mexico)**(3PT29) Optically stimulated luminescence and Thermoluminescence properties of Al<sub>2</sub>O<sub>3</sub>:Mg laser sintered ceramic**\*Matheus Cavalcanti dos Santos Nunes<sup>1,2</sup>, Eliane Pinheiro Silva<sup>3</sup>, Ronaldo Santos Silva<sup>3</sup>, Neilo Marcos Trindade<sup>1</sup><sup>1</sup> São Paulo State university(Brazil)<sup>2</sup> University of São Paulo(Brazil)<sup>3</sup> Federal University of Sergipe(Brazil)

## ■ September 24 (Thu)

### Area II

Venue: Base of Human and Environmental bldg.

Poster core times differ for odd- and even-numbered posters.

Odd-numbered posters (01, 03, 05, ...): First poster session (12:20-13:30)

Even-numbered posters (02, 04, 06, ...): Second poster session (18:50-20:00)

#### Thermometer

(3PT31) Luminescent Thermometry Based on Triply Doped  $\text{Y}_3\text{Al}_5\text{O}_{12}$  Nanophosphors

\*Aleksandra Owczarek<sup>1</sup>, Justyna Zeler<sup>1</sup>, Eugeniusz Zych<sup>1</sup>

<sup>1</sup> University of Wrocław, Faculty of Chemistry(Poland)

(3PT32) Temperature Sensing and Thermal Threshold Indicator Based on  $\text{Ca}_{19}\text{Ce}(\text{PO}_4)_{14}:\text{Mn}^{2+}$

\*Yuka Abe<sup>1</sup>, Maja Szymczak<sup>1</sup>, Justyna Zeler<sup>2</sup>, Rafal Szukiewicz<sup>3</sup>, Łukasz Marciniak<sup>1</sup>

<sup>1</sup> Institute of Low Temperature and Structure Research, Polish Academy of Sciences(Poland)

<sup>2</sup> Faculty of Chemistry, University of Wrocław(Poland)

<sup>3</sup> Faculty of Physics, University of Wrocław, Institute of Experimental Physics(Poland)

(3PT33) Thermoluminescent and thermometric properties of  $(\text{Cr}^{3+}, \text{Yb}^{3+}, \text{Er}^{3+})$  - doped  $\text{LaAlO}_3$

\*Dominika Grzesiak<sup>1</sup>, Eugeniusz Zych<sup>1</sup>, Justyna Zeler<sup>1</sup>

<sup>1</sup> University of Wrocław(Poland)

(3PT34) Designing  $\text{Mn}^{4+}$  Luminescence Kinetics - A Nephelauxetic Approach to Lifetime Thermometry

\*Ayisha Basheer<sup>1</sup>, Maja Szymczak<sup>1</sup>, Michal Piasecki<sup>2</sup>, Alok M Srivastava<sup>3</sup>, Mikhail G Brik<sup>2,4,5,6,7</sup>, Łukasz Marciniak<sup>1</sup>

<sup>1</sup> Institute of Low Temperature and Structure Research, Polish Academy of Sciences, Wrocław(Poland)

<sup>2</sup> Faculty of Science and Technology, Jan Długosz University, Częstochowa(Poland)

<sup>3</sup> Current Chemicals, Inc, Cleveland(USA)

<sup>4</sup> School of Integrated Circuits, Chongqing University of Posts and Telecommunications, Chongqing(China)

<sup>5</sup> Center of Excellence for Photoconversion, Vinča Institute of Nuclear Sciences, University of Belgrade, Belgrade(Serbia)

<sup>6</sup> Institute of Physics, University of Tartu, Tartu(Estonia)

<sup>7</sup> Academy of Romanian Scientists, Bucharest(Romania)

(3PT35)  $\text{Eu}^{2+}/\text{Eu}^{3+}$  valence control and luminescence tuning by dopant concentration in  $\text{SrAl}_2\text{O}_4:\text{Eu}, \text{Dy}$  ceramics laser-sintered in air

\*David Sampaio<sup>1</sup>, Deyvid Silva<sup>1</sup>, Jerre Santos<sup>2</sup>, Marcos Vermelho<sup>1</sup>, Miguel Hernández-Rodríguez<sup>3,4</sup>, Carlos Brites<sup>3</sup>, Luís Carlos<sup>3</sup>, John Ballato<sup>5</sup>, Ronaldo Silva<sup>6</sup>

<sup>1</sup> Federal University of Alagoas(Brazil)

<sup>2</sup> Federal University of Recncavo of Bahia(Brazil)

<sup>3</sup> University of Aveiro(Portugal)

<sup>4</sup> Universidad de La Laguna(Spain)

<sup>5</sup> Clemson University(USA)

<sup>6</sup> Federal University of Sergipe(Brazil)

(3PT36) Photoluminescence properties of tellurite glasses

\*Roman Yatskiv<sup>1</sup>

<sup>1</sup> Institute of Photonics and Electronics, Czech Academy of Sciences(Czech Republic)

(3PT37)  $\text{LuPO}_4:\text{Ln}^{3+}$  as a Radioluminescent Temperature Sensor

\*Anna Klecha<sup>1</sup>, Justyna Zeler<sup>1</sup>, Eugeniusz Zych<sup>1</sup>

<sup>1</sup> University of Wrocław, Faculty of Chemistry(Poland)

(3PT38) Sensing Performance of  $\text{Ba}_2\text{MO}_4:\text{Mn}^{5+}$  (M=Ge, Si, Ti) Doped Materials: From Crystalline Structure to Luminescence Properties.

\*Jacopo Cangiotti<sup>1</sup>, Natalia Majewska<sup>2</sup>, Sebastian Mahlik<sup>2</sup>, Jumpei Ueda<sup>3</sup>, Pietro Riello<sup>1</sup>, Michele Back<sup>1</sup>

<sup>1</sup> Ca' Foscari University of Venice(Italy)

<sup>2</sup> University of Gdansk(Poland)

<sup>3</sup> Japan Advance Institute of Science and Technology(Japan)

(3PT39) Core-Shell Engineering and Dopant Optimization in Lanthanide-Doped Upconverting Nanoparticles for Enhanced Ratiometric Nanothermometry

\*Chi Zhang<sup>1,2</sup>, Jin-Wen Zhang<sup>1</sup>, Xiao-Hang Cao<sup>1</sup>, Ling-Dong Sun<sup>1</sup>, Chun-Hua Yan<sup>1</sup>

<sup>1</sup> Peking University(China)

<sup>2</sup> University of Rochester(USA)

**(3PT40) Fe<sup>3+</sup>-Cr<sup>3+</sup>-Eu<sup>3+</sup> Co-doped LiAl<sub>5</sub>O<sub>8</sub> Spinel for Ratiometric Optical Nanothermometry**

Daiane Maria Medeiros<sup>1</sup>, Tasso Sales<sup>1</sup>, Leonardo Clemente<sup>1</sup>, William Alves<sup>2</sup>, Ariosvaldo Souza<sup>3</sup>, André Moura<sup>1</sup>, Marcos Rezende<sup>2</sup>, \*Carlos Jacinto<sup>1</sup>

<sup>1</sup> Instituto de Física- Universidade Federal de Alagoas (Brazil)

<sup>2</sup> Instituto de Física- Universidade Federal de Sergipe (Brazil)

<sup>3</sup> Instituto de Física- Universidade Federal de Mato Grosso (Brazil)

**(3PT41) Enhancing Thermal Sensitivity of Tb(III) Emission by Ligand Triplet Energy Escape in a Dinuclear Tb(III)–Nd(III) Complex**

\*Yusaku Yamaguchi<sup>1</sup>, Takuma Nakai<sup>1</sup>, Shun Omagari<sup>2</sup>, Mengfei Wang<sup>3</sup>, Yasuchika Hasegawa<sup>3,4</sup>, Yuichi Kitagawa<sup>3,4</sup>

<sup>1</sup> Graduate School of Chemical Sciences and Engineering, Hokkaido University (Japan)

<sup>2</sup> Department of Materials Science and Engineering, Institute of Science Tokyo (Japan)

<sup>3</sup> Faculty of Engineering, Hokkaido University (Japan)

<sup>4</sup> Institute for Chemical Reaction Design and Discovery (WPI-ICReDD), Hokkaido University (Japan)

**(3PT42) Beyond Thermally Coupled Levels: Dual-Center Luminescent Nanothermometry in Eu<sup>3+</sup>-Doped YVO<sub>4</sub> Nanoparticles**

Carlos Jacinto Silva<sup>1,3</sup>, \*Tasso Oliveira Sales<sup>1</sup>, Ales Braga Silva<sup>1</sup>, João Pedro Leite<sup>1</sup>, Andressa Novatski<sup>2</sup>

<sup>1</sup> Nano-Photonics and Imaging Group, Institute of Physics, Universidade Federal de Alagoas, 57072-900, Maceio-AL, Brazil. (Brazil)

<sup>2</sup> Departamento de Física, Universidade Estadual de Ponta Grossa, 4748, CEP 84030-900, Ponta Grossa, PR, Brazil. (Brazil)

<sup>3</sup> Programa de Pós-Graduação em Materiais, Centro de Tecnologia, Universidade Federal de Alagoas, 57072-900, Maceio-AL, Brazil. (Brazil)

**(3PT43) Visual Optical based Thermometry in Ce<sup>3+</sup>, Cr<sup>3+</sup> Co-Doped KGaGeO<sub>4</sub>**

\*Antreena George<sup>1</sup>, Maja Szymczak<sup>1</sup>, Łukasz Marciniak<sup>1</sup>

<sup>1</sup> Institute of Low Temperature and Structure Research, PAS (Poland)

**(3PT44) Development of a carbon quantum dot temperature sensing method using machine learning**

\*Haruta Onishi<sup>1</sup>, Yumi Yoshida<sup>1</sup>, Kohji Maeda<sup>1</sup>, Shingo Sotoma<sup>1</sup>

<sup>1</sup> Kyoto Institute of Technology (Japan)

**(3PT45) Luminescence Thermometry Based on Structural Phase Transition of LaGaO<sub>3</sub>:Eu<sup>3+</sup> Co-doped with Al<sup>3+</sup> and Sc<sup>3+</sup>**

\*Muhammad Tahir Abbas<sup>1</sup>, Maja Szymczak<sup>1</sup>, Damian Szymanski<sup>1</sup>, Justyna Zeler<sup>2</sup>, Marek Drozd<sup>1</sup>, Lam Giang<sup>3</sup>, Lukasz Marciniak<sup>1</sup>

<sup>1</sup> Institute of Low Temperature and Structure Research, Polish Academy of Sciences, Wrocław, 50-422, Poland (Poland)

<sup>2</sup> University of Wrocław, Faculty of Chemistry, Wrocław, 50-383, Poland (Poland)

<sup>3</sup> Institute of Materials Science, Vietnam Academy of Science and Technology, Hanoi, Vietnam (Viet Nam)

**(3PT46) Cross-Validation of Nanodiamond Quantum Thermometry with Mn-Doped MFG Phosphor Thermometry**

\*Areesha Kainat<sup>1</sup>, MASAZUMI FUJIWARA<sup>1</sup>, ASHUTOSH RATHI<sup>1</sup>, ALDO MENDIETA<sup>2</sup>, GAVIN SUTTON<sup>2</sup>, ALEX JONES<sup>2</sup>

<sup>1</sup> Graduate School of Environmental, Life, Natural Science and Technology, Okayama University. (Japan)

<sup>2</sup> NATIONAL PHYSICAL LABORATORY, NPL. (UK)

**(3PT47) Structural Phase-Transition-Based Luminescent Platform for Thermal Sensing and Imaging**

\*Anam Javaid<sup>1</sup>, Malgorzata Kubicka<sup>1</sup>, Vasyi Kinzhybalov<sup>1</sup>, Marek Drozd<sup>1</sup>, Damian Szymanski<sup>1</sup>, Maja Szymczak<sup>1</sup>, Lukasz Marciniak<sup>1</sup>

<sup>1</sup> Institute of Low Temperature and Structure Research, Polish Academy of Sciences, Wrocław, 50-422, Poland (Poland)

**(3PT48) Structure-Driven Modulation of Lanthanide Luminescent Thermometers: Charge-Transfer States and Sensitivity–Range Integral (SRI) evaluation**

\*Trofim Polikovskiy<sup>1,2</sup>, Victoria Gontcharenko<sup>1</sup>, Ilya Taydakov<sup>1</sup>

<sup>1</sup> P. N. Lebedev Physical Institute of the Russian Academy of Sciences (Russia)

<sup>2</sup> Landau School of Physics and Research, Moscow Institute of Physics and Technology (Russia)

**(3PT49) Eu<sup>3+</sup> based luminescent thermometry in calcite-type structure**

\*Hirohisa Miyata<sup>1</sup>, Yusuke Asai<sup>2</sup>, Kosaku Ohishi<sup>2</sup>, Yuichi Hirai<sup>3</sup>, Miwa Saito<sup>2</sup>, Teruki Motohashi<sup>2</sup>, Takayuki Nakanishi<sup>3</sup>, Jumpei Ueda<sup>1</sup>

<sup>1</sup> Japan Advanced Institute of Science and Technology (Japan)

<sup>2</sup> Kanagawa Univ. (Japan)

<sup>3</sup> National Institute for Materials Science (Japan)

## ■ September 24 (Thu)

### Area III

Venue: Base of Human and Environmental bldg.

Poster core times differ for odd- and even-numbered posters.

Odd-numbered posters (01, 03, 05, ...): First poster session (12:20-13:30)

Even-numbered posters (02, 04, 06, ...): Second poster session (18:50-20:00)

#### Nanomaterial/Upconversion

(3PT51) Ultra-wideband-responsive photon conversion in lanthanide nanocrystals

\*Zhao Jiang<sup>1</sup>, Wanwan Li<sup>2</sup>

<sup>1</sup> University of Cambridge(UK)

<sup>2</sup> Shanghai Jiao Tong University(China)

(3PT52) Influence of Alkaline-Metals Addition on Up-Conversion Luminescence Intensity of CaTiO<sub>3</sub>:Er

\*Masayoshi Nagata<sup>1</sup>, Tomoki Koikawa<sup>1</sup>, Tomoyuki Yamamoto<sup>1</sup>

<sup>1</sup> Waseda University(Japan)

(3PT53) Lanthanide Luminescent Materials for Advanced Anti-Counterfeiting and X-ray Imaging

\*Lili Xie<sup>1</sup>

<sup>1</sup> Fujian Medical University(China)

(3PT54) Selective Sensing of Fe<sup>3+</sup> Ions Using Ce<sup>3+</sup> Sensitized BaF<sub>2</sub>:Tb<sup>3+</sup> Nanocrystals: Static Quenching and Inner Filter Effect Mechanism

\*Oinam Henasurkishore Singh<sup>1</sup>

<sup>1</sup> Manipur University(India)

(3PT55) Indoor Application of Luminescent Solar Concentrators Using Fluorescent Nanocomposite Films of CuInS<sub>2</sub>/ZnS Quantum Dots

\*Hiroki Koyasu<sup>1</sup>, Tetsuhiko Isobe<sup>1</sup>, Yoshiki Iso<sup>1</sup>

<sup>1</sup> Keio university(Japan)

(3PT56) Observation of polarization fluctuations in single superfluorescent pulses from an ensemble of CuCl quantum dots

\*Tomoya Suzuki<sup>1</sup>, Akihiro Ito<sup>1</sup>, Ryotaro Chiba<sup>1</sup>, Jun Ishihara<sup>2</sup>, Kensuke Miyajima<sup>1</sup>

<sup>1</sup> Tokyo University of Science(Japan)

<sup>2</sup> Tohoku University(Japan)

(3PT57) Photoluminescence and energy transfer properties of Mn-doped Zn<sub>1-x</sub>Cd<sub>x</sub>Se alloy quantum dots

\*Yuto Osako<sup>1</sup>, DaeGwi Kim<sup>1</sup>

<sup>1</sup> Osaka Metropolitan University(Japan)

(3PT58) Uponversion luminescence enhancement in UCNP-Metal oxide heterostructures for high resolution imaging

\*Sung Woo Jang<sup>1</sup>, Won Bin Im<sup>1</sup>

<sup>1</sup> Hanyang University(Korea)

(3PT59) Photoluminescence properties of water-soluble CdSe/ZnS quantum dots prepared by a hydrothermal method

\*Takumi Ishikawa<sup>1</sup>, DaeGwi Kim<sup>1</sup>

<sup>1</sup> Osaka Metropolitan University(Japan)

(3PT60) Fano-resonance-driven directional scattering in color conversion layers using SiO<sub>2</sub>@TiO<sub>2</sub> core-shell nanoparticles

\*Min Ji Kim<sup>1</sup>, Won Bin Im<sup>1</sup>

<sup>1</sup> Hanyang University(Korea)

(3PT61) Optimizing the red photoluminescence quantum yield of ligand-exchanged CuInS<sub>2</sub>/ZnS quantum dots in a PBS solution

\*Haowei Tan<sup>1</sup>, Yoshiki Iso<sup>1</sup>, Tetsuhiko Isobe<sup>1</sup>

<sup>1</sup> Keio university(Japan)

**(3PT62) Multicolor Upconversion and Downshifting Luminescence in Tri-Doped  $\text{CaWO}_4$  Nanophosphors for Advanced Photonic Applications**\*Kedukhro Khupfu<sup>1</sup>, Naorem Shanta Singh<sup>1</sup><sup>1</sup> Nagaland University(India)**(3PT63) Change in Intensity Ratio between Red and Green Up-Conversion Luminescence from Er-Doped Oxides**\*Tomoki Koikawa<sup>1</sup>, Mikhail G. Brik<sup>2</sup>, Tomoyuki Yamamoto<sup>1</sup><sup>1</sup> Waseda University(Japan)<sup>2</sup> University of Tartu(Estonia)**(3PT64) Investigation of thermal effects of X-ray excited optical luminescence by primary thermometry**\*Elaine Andrade de Mattos<sup>1</sup>, Lucas Carvalho Veloso Rodrigues<sup>1</sup><sup>1</sup> University of São Paulo(Brazil)**(3PT65) Influence of low phonon energy on  $\text{Yb}^{3+}$ -sensitized upconversion luminescence in  $\text{KPb}_2\text{Cl}_5$  nanocrystals**\*Małgorzata Misiak<sup>1</sup>, Magdalena Sobota<sup>1</sup><sup>1</sup> Institute of Low Temperature and Structure Research Polish Academy of Sciences, Wrocław, Poland(Poland)**(3PT66) Dual-wavelength-excited upconversion luminescence for UV photonic security in  $\text{Tm}^{3+}$ -doped garnets**Bingbing Yang<sup>1</sup>, Feng Liu<sup>1</sup>, \*Yanfang Sun<sup>1</sup>, Xiao-Jun Wang<sup>2</sup>, Yichun Liu<sup>1</sup><sup>1</sup> Northeast Normal University(China)<sup>2</sup> Georgia Southern University(USA)**(3PT67) Rare Earth Doped  $\text{Cs}_3\text{Bi}_2\text{Cl}_9$  for Optical Thermometry and Anticounterfeiting Applications**\*Shanas Fatima<sup>1</sup>, Santosh Kachhap<sup>1</sup>, Zubair Nabi<sup>2</sup>, Sunil Kumar Singh<sup>1</sup><sup>1</sup> Indian Institute of Technology, (BHU)(India)<sup>2</sup> Shiv Nadar Institute of Eminence(India)**(3PT68)  $\text{RbY}_3\text{F}_{10}:\text{Ce}^{3+}, \text{Tb}^{3+}$  Phosphor with Intense Green Emission for Latent Fingerprint Visualization**\*Katarina Milenkovic<sup>1</sup>, Zoran Ristic<sup>1</sup>, Vladimir Pankratov<sup>2</sup>, Anatolijs Sarakovskis<sup>2</sup>, Carlos D. S. Brites<sup>3</sup>, Luis D. Carlos<sup>3</sup>, Vesna Djordjevic<sup>1</sup>, Miroslav D. Dramicanin<sup>1</sup><sup>1</sup> Centre of Excellence for Photoconversion, Vinča Institute of Nuclear Sciences—National Institute of the Republic of Serbia, University of Belgrade(Serbia)<sup>2</sup> Institute of Solid State Physics, University of Latvia, Riga, Latvia (Institute of Solid State Physics, University of Latvia)(Latvia)<sup>3</sup> Phantom-g, CICECO - Aveiro Institute of Materials, Department of Physics, University of Aveiro(Portugal)**(3PT69) Water-insensitive NIR-I-to-NIR-II Down-shifting Nanoparticles Enable Stable Biomarker Detection at Low Power Thresholds in Opaque Aqueous Environments**\*Dongkyu Kang<sup>1,2</sup>, Suyoen Kim<sup>1</sup>, Joonseok Lee<sup>1</sup><sup>1</sup> Hanyang University(Korea)<sup>2</sup> Kyoto University(Japan)**(3PT70) Cu-Doped Layered Double Hydroxide (LDH) nanotubes for  $\text{CO}_2$  reduction under supercritical conditions**\*Alexandre Candido Teixeira<sup>1</sup>, Danilo Mustafa<sup>1</sup><sup>1</sup> Universidade de São Paulo(Brazil)**(3PT71) Resolving Singlet, Triplet, and Excimer Pathways in Porphyrin to Nedyinium-doped Nanoparticles Energy Transfer**\*Julia Osmólska<sup>1</sup>, Lars van Turnhout<sup>1</sup>, Zhongzheng Yu<sup>1</sup>, Akshay Rao<sup>1</sup><sup>1</sup> University of Cambridge(UK)

## ■ September 24 (Thu)

### Area IV

Venue: Base of Human and Environmental bldg.

Poster core times differ for odd- and even-numbered posters.

**Odd-numbered posters (01, 03, 05, ...): First poster session (12:20-13:30)**

**Even-numbered posters (02, 04, 06, ...): Second poster session (18:50-20:00)**

#### Persistent phosphor

(3PT73) Green Persistent Luminescence in  $\text{Eu}^{2+}$ -doped Hackmanite

\*Joshua John Baggott<sup>1,2</sup>, Minnea Tuomisto<sup>1</sup>, J. A. Gareth Williams<sup>3</sup>, Sari Granroth<sup>4</sup>, Ermei Mäkilä<sup>4</sup>, Ari Väisänen<sup>5</sup>, Jani O. Moilanen<sup>5</sup>, Mika Lastusaari<sup>1</sup>

<sup>1</sup> Department of Chemistry, University of Turku(Finland)

<sup>2</sup> University of Turku Graduate School (UTUGS), Doctoral Program in Exact Sciences (EXACTUS)(Finland)

<sup>3</sup> Department of Chemistry, Durham University(UK)

<sup>4</sup> Department of Physics and Astronomy, University of Turku(Finland)

<sup>5</sup> Department of Chemistry, University of Jyväskylä(Finland)

(3PT74) Tailoring Long-Persistent Luminescence via Activator-Dependent Defect Engineering in  $\text{CaSnO}_3\text{:Tb}$  or  $\text{Pr}$  for Neuromorphic Computing

\*YuJune Kim<sup>1</sup>, Sangwon Wi<sup>1</sup>, Yunsang Lee<sup>1</sup>

<sup>1</sup> Department of Physics, Soongsil University(Korea)

(3PT75) Unveiling the structural determinants of Persistent Luminescence in Mn-Doped Halide Double Perovskites

\*Emmanuela Dj Giorgio<sup>1,2</sup>, Francesca Cova<sup>3</sup>, Marta Campolucci<sup>1</sup>, Chiara Solinas<sup>1</sup>, Mauro Fasoli<sup>3</sup>, Alberto Martinelli<sup>4</sup>, Blanka Detlefs<sup>2</sup>, Pieter Glatzel<sup>2</sup>, Federico Locardi<sup>1</sup>

<sup>1</sup> University of Genoa(Italy)

<sup>2</sup> ESRF – The European Synchrotron(France)

<sup>3</sup> University of Milano – Bicocca(Italy)

<sup>4</sup> CNR-SPIN(Italy)

(3PT76) Photonically engineered trap transfer for secure, hierarchical optical storage in electron-trapping phosphors

Lu Chen<sup>1</sup>, \*Feng Liu<sup>1</sup>, Xintong Zhang<sup>1</sup>, Yichun Liu<sup>1</sup>

<sup>1</sup> Northeast Normal University(China)

(3PT77) Persistent luminescence emission characteristics of  $\text{Pr}^{3+}$  and  $\text{Gd}^{3+}$  activated strontium pyrophosphates

\*Didzis Salnajs<sup>1</sup>, Dace Nilova<sup>1</sup>, Guna Doke<sup>1</sup>, Jonas Stadulis<sup>2</sup>, Sapargali Pazylbek<sup>2</sup>, Aleksej Zarkov<sup>2</sup>, Andris Antuzevics<sup>1</sup>

<sup>1</sup> Institute of Solid State Physics, University of Latvia(Latvia)

<sup>2</sup> Institute of Chemistry, Vilnius University(Lithuania)

(3PT78) Triplet Energy Gap-Directed Donor Engineering for Color-Tunable Guest-Host Afterglow Systems

\*Tapashi Sarmah<sup>1</sup>

<sup>1</sup> Indian Institute of Technology, Guwahati(India)

(3PT79) Laser-Induced Sintering of Luminescent Coatings

\*Krisjanis Smits<sup>2,3,4</sup>, Katrina Krizmane<sup>1</sup>, Virginija Vitola<sup>1</sup>

<sup>1</sup> Institute of Solid State Physics, University of Latvia, Riga(Latvia)

<sup>2</sup> Institute of Biomaterials and Bioengineering, Riga Technical University(Latvia)

<sup>3</sup> R4ST Ltd(Latvia)

<sup>4</sup> Institute of Physics and Materials Science, Faculty of Natural Sciences and Technology, Riga Technical University(Latvia)

(3PT80) Thermoluminescent properties of  $\text{GdAlO}_3\text{:Cr}^{3+}, \text{Sm}^{3+}, \text{Ho}^{3+}$

\*Dominika Jurkowska<sup>1</sup>, Eugeniusz Zych<sup>1</sup>, Justyna Zeler<sup>1</sup>

<sup>1</sup> Faculty of Chemistry, University of Wrocław(Poland)

## ■ September 25 (Fri)

### Lecture Hall A

Venue: 3F of ILAS bldg.

#### Thermometer *Chairs: Lukasz Marciniak, Antonio Benayas*

09:00 - 09:30

(4A-01) Light-Driven Frontiers: From Energy Conversion to Health Applications

\*Rogéria Rocha Gonçalves<sup>1</sup>

<sup>1</sup> University of São Paulo(Brazil)

09:30 - 10:00

(4A-02) Towards Volumetric Luminescence Thermometry

\*Erving Ximendes<sup>1</sup>, Liyan Ming<sup>2</sup>, Joan Riera-Cayetano<sup>1</sup>, Riccardo Marin<sup>2</sup>, Daniel Jaque<sup>1</sup>

<sup>1</sup> nanoBIG, Universidad Autónoma de Madrid(Spain)

<sup>2</sup> IONs, Universidad Autónoma de Madrid(Spain)

10:00 - 10:30

(4A-03) *Ex unum, pluribus*: How to get more from a single sensor

\*Riccardo Marin<sup>1</sup>, Liyan Ming<sup>1</sup>, Araceli de Aquino<sup>1</sup>, Nikita Panov<sup>1</sup>, Joan Riera<sup>1</sup>, Daniel Jaque<sup>1</sup>, Erving Ximendes<sup>1</sup>

<sup>1</sup> Universidad Autónoma de Madrid(Spain)

10:50 - 11:10

(4A-04) Beyond the Size: The Site Occupation of Pr<sup>3+</sup>, Tb<sup>3+</sup>, and Eu<sup>3+</sup> in Germanate and Silicate Garnets

\*Dagmara Stefanowska<sup>1</sup>, Andries Meijerink<sup>2</sup>, Eugeniusz Zych<sup>1</sup>

<sup>1</sup> University of Wrocław(Poland)

<sup>2</sup> Utrecht University(Netherlands)

11:10 - 11:30

(4A-05) Divalent Lanthanide Azides, Ln(N<sub>3</sub>)<sub>2</sub> (Ln = Eu, Yb): Synthesis and Luminescence of Binary Lanthanide Nitrogen compounds

\*Mathias Wickleder<sup>1</sup>

<sup>1</sup> University of Cologne, Department of Chemistry (Germany)

11:30 - 11:50

(4A-06) Low temperature synthesis of halide-QD materials using

Novel Water-Assisted Solid-State Reaction method

\*Kenji Toda<sup>1</sup>, Wataru Hikita<sup>1</sup>

<sup>1</sup> Niigata University(Japan)

#### High Pressure *Chairs: Markus Suta, Marcin Runowski*

13:10 - 13:40

(4A-07) Looking for the Next Ruby

Jacopo Cangiotti<sup>1</sup>, Laura Gardini<sup>1</sup>, Hirohisa Miyata<sup>2</sup>, Otgondemberel Galaaraidii<sup>3</sup>, Erdene Norov<sup>4</sup>, Pietro Riello<sup>1</sup>, Jumpei Ueda<sup>2</sup>, \*Michele Back<sup>1</sup>

<sup>1</sup> Ca' Foscari University of Venice(Italy)

<sup>2</sup> Graduate School of Advanced Science and Technology, Japan Advanced Institute of Science and Technology(Japan)

<sup>3</sup> School of Applied Sciences, Mongolian University of Life Sciences(Mongolia)

<sup>4</sup> School of Engineering & Technology, National University of Mongolia(Mongolia)

13:40 - 14:10

(4A-08) High-Pressure Spectroscopy for Probing Energy Structure and Luminescence Mechanisms in Phosphors

\*Sebastian Mahlik<sup>1</sup>

<sup>1</sup> University of Gdansk(Poland)

14:10 - 14:40

(4A-09) Luminescence of lanthanides under pressure

\*Victor Lavin<sup>1,4,3</sup>, Juan Enrique Muñoz-Santiuste<sup>2,3</sup>, Ulises Ruymán Rodríguez-Mendoza<sup>1,5,3</sup>, Miguel Andrés

Hernández-Rodríguez<sup>1,4</sup>

<sup>1</sup> Faculty of Sciences, University of La Laguna(Spain)

<sup>2</sup> Department of Physics, Universidad Carlos III de Madrid(Spain)

<sup>3</sup> Malta-Consolider Team(Spain)

<sup>4</sup> IUDEA(Spain)

<sup>5</sup> IMN(Spain)

14:40 - 15:10

(4A-10) Innovations in High-Pressure Oxonitridoborate Chemistry: From Synthesis to Luminescence

\*Hubert Huppertz<sup>1</sup>

<sup>1</sup> University of Innsbruck(Austria)

**Organic molecule/MOF/Complex/OLED** *Chairs: Ryota Kabe, Shun Omagari*

15:30 - 16:00

(4A-11) Perovskite LEDs and Lasers

\*Dawei Di<sup>1</sup>

<sup>1</sup> Zhejiang University(China)

16:00 - 16:30

(4A-12) Organic/polymeric semiconducting materials for high-performance photoelectronic devices

\*Yunqi Liu<sup>1</sup>

<sup>1</sup> Institute of Chemistry, Chinese Academy of Sciences(China)

16:30 - 17:00

(4A-13) Fluorescence from solution to the solid state: static and dynamic solvation

\*Anna Painelli<sup>1</sup>

<sup>1</sup> University of Parma(Italy)

17:00 - 17:30

(4A-14) FRET is not dead, it just smells funny!

\*Niko Hildebrandt<sup>1</sup>

<sup>1</sup> McMaster University(Canada)

## ■ September 25 (Fri)

### Lecture Hall B

Venue: 3F of ILAS bldg.

#### Transparent material *Chairs: Tanguy Rouxel, Angela Beth Seddon*

09:00 - 09:30

(4B-01) Innovation in Optical Ceramics

\*Akio Ikesue<sup>1</sup>

<sup>1</sup> World Lab. Co.(Japan)

09:30 - 10:00

(4B-02) Boosting luminescence in oxide phosphors by the vitrifying-devitrifying approach

\*Jianrong Qiu<sup>1</sup>

<sup>1</sup> Zhejiang University(China)

10:00 - 10:30

(4B-03) Glass Fibre Lasers for the Molecular Fingerprint Region.

\*Angela Beth Seddon<sup>1</sup>, Joel J Nunes<sup>1</sup>, Boyu Xiao, Mark C Farries<sup>1</sup>, David Furniss<sup>1</sup>, Łukasz Sójka<sup>2</sup>, Sendy Phang<sup>1</sup>, Slawomir Sujecki<sup>2</sup>

<sup>1</sup> University of Nottingham(UK)

<sup>2</sup> Wroclaw University of Science and Technology(Poland)

10:50 - 11:20

(4B-04) Phosphor-in-glass composites for lighting and energy conversion

\*Andréa S. S. de Camargo<sup>1,4</sup>, Divya Gupta<sup>1</sup>, Ricardo Baltieri<sup>1</sup>, Shweta Chahal<sup>1</sup>, Leonnam Merizio<sup>2</sup>, Marzieh Ghadamyari<sup>3</sup>

<sup>1</sup> Federal Institute for Materials Research and Testing (BAM)/Friedrich-Schiller University Jena (FSU)(Germany)

<sup>2</sup> Sao Carlos Institute of Chemistry, University of Sao Paulo(Brazil)

<sup>3</sup> FunGlass – Centre for Functional and Surface Functionalized Glass, TnUAD(Slovakia)

<sup>4</sup> Friedrich Schiller University Jena(Germany)

11:20 - 11:40

(4B-05) Magnetic and Luminescent Garnet Single Crystals Obtained from Controlled Glass Cooling

\*Marcelo Nalin<sup>1</sup>

<sup>1</sup> São Paulo State University(Brazil)

11:40 - 12:00

(4B-06) Directional Control of Photoluminescence from Phosphor plates Using Nanoantenna Stickers

\*Shunsuke Murai<sup>1</sup>, Hongjie Gao<sup>2</sup>, Katsuhisa Tanaka<sup>2</sup>, Koichi Okamoto<sup>1</sup>

<sup>1</sup> Osaka Metropolitan University(Japan)

<sup>2</sup> Kyoto University(Japan)

#### Nanomaterial/Upconversion *Chairs: Setsuhisa Tanabe, Mikhail G. Brik*

13:10 - 13:40

(4B-07) There is plenty of energy at the bottom: NIR to visible up-conversion luminescence driven photocatalytic water-splitting

\*Pablo Acosta Mora<sup>1</sup>, Pedro Esparza<sup>1</sup>, Emma Borges<sup>1</sup>, Miguel Medina Alayón<sup>1</sup>, Javier del-Castillo Vargas<sup>1</sup>, Amador Menéndez Veázquez<sup>2</sup>, A.B. García Delgado<sup>2</sup>, C.B. Mullins<sup>3</sup>, Jorge Méndez Ramos<sup>1</sup>

<sup>1</sup> Universidad de La Laguna(Spain)

<sup>2</sup> Centro Tecnológico IDONIAL(Spain)

<sup>3</sup> The University of Texas(USA)

13:40 - 14:10

(4B-08) Persistent luminescence nanoparticles for biosensors and bioimaging in the NIR range

\*Bruno Viana<sup>1</sup>, Guanyu Cai<sup>1</sup>, Celina Matuszewska<sup>3,1</sup>, Cyrille Richard<sup>2</sup>, Corinne Chaneac<sup>3</sup>

<sup>1</sup> PSL University, IRCP-CNRS Chimie ParisTech, Paris(France)

<sup>2</sup> UTCBS-CNRS, INSERM, University Paris Cite, Paris(France)

<sup>3</sup> LCMCP-CNRS, Sorbonne University, Paris(France)

14:10 - 14:40

(4B-09) Advances in first-principles calculation of luminescence properties of Eu<sup>2+</sup>/Ce<sup>3+</sup>-activated phosphors

\*Masayoshi Mikami<sup>1</sup>

<sup>1</sup> Mitsubishi Chemical Corporation(Japan)

14:40 - 15:10

(4B-10) Lanthanide-Doped Luminescent Nanoprobes: from Fundamentals to Bioapplications

\*Xueyuan Chen<sup>1</sup>

<sup>1</sup> Fujian Institute of Research on the Structure of Matter, Chinese Academy of Sciences(China)

**Mechanoluminescence** *Chairs: Sebastian Mahlik, Hubert Huppertz*

15:30 - 16:00

(4B-11) Frontiers in Mechanoluminescent Materials: Design, Mechanisms, and Applications

\*Chao-Nan XU<sup>1</sup>

<sup>1</sup> Tohoku University(Japan)

16:00 - 16:30

(4B-12) Structure–Mechanics–Luminescence Relationships in Mechanically Responsive Molecular Solids

\*Yuichi Hirai<sup>1</sup>

<sup>1</sup> National Institute for Materials Science(Japan)

16:30 - 16:50

(4B-13) Mechanoluminescence in crystalline inorganic materials: local disorder and the elastic distortion

\*Tanguy Rouxel<sup>1,2</sup>, Xavier Rocquefelte<sup>1</sup>, Alexis Duval<sup>1</sup>, Setsuhisa Tanabe<sup>2</sup>

<sup>1</sup> University of Rennes(France)

<sup>2</sup> University of Kyoto(Japan)

16:50 - 17:10

(4B-14) Sound-to-light conversion

\*Marcin Runowski<sup>1</sup>, Kevin Soler Carracedo<sup>1</sup>, Jan Moszczyński<sup>1</sup>, Przemysław Woźny<sup>1</sup>, Fang Zhao<sup>1</sup>, Justyna Barzowska<sup>4</sup>, Adrian Drozdowski<sup>1</sup>, Tomasz Grzyb<sup>1</sup>, Teng Zheng<sup>2</sup>, Sebastian Mahlik<sup>4</sup>, Dengfeng Peng<sup>3</sup>

<sup>1</sup> Adam Mickiewicz University, Faculty of Chemistry, Uniwersytetu Poznańskiego 8, 61-614, Poznań(Poland)

<sup>2</sup> Hangzhou City University, School of Information and Electrical Engineering(China)

<sup>3</sup> Key Laboratory of Optoelectronic Devices, College of Physics and Optoelectronic Engineering, Shenzhen University, Shenzhen 518060(China)

<sup>4</sup> University of Gdansk, Faculty of Mathematics, Physics and Informatics, Gdansk 80-308(Poland)

17:10 - 17:30

(4B-15) Probing Ultrafast Light Driven Dynamics with an X-ray Free Electron Laser

\*Tim van Driel<sup>1</sup>

<sup>1</sup> SLAC National Accelerator Laboratory / Stanford University(USA)

## ■ September 25 (Fri)

### Room C

Venue: Center bldg. South-wing Room #11

#### Dosimeter *Chairs: Taisei Hangai, Ying Lv*

09:00 - 09:20

(4C-01) Stimulated Luminescence as an Integrated Tool for Dosimetry, Defect Studies, and Extreme-Environment Materials Research

Filipe Santos Costa<sup>1</sup>, Matheus Cavalcanti dos Santos Nunes<sup>1,2</sup>, \*Neilo Marcos Trindade<sup>1</sup>

<sup>1</sup> Institute of Physics - University of São Paulo(Brazil)

<sup>2</sup> Graduate Program in Science and Technology of Materials - São Paulo State University(Brazil)

09:20 - 09:40

(4C-02) Structural, chemical and thermoluminescent properties of the CSM-LMT-1 lunar regolith simulant

\*Caio Morelli Vicentini<sup>1,2</sup>, Isabela Ferreira<sup>1,3</sup>, Matheus Nunes<sup>1,3</sup>, Georgia Pongeluppe<sup>1</sup>, Carina Ulsen<sup>2</sup>, Luiz Jacobsohn<sup>4</sup>, Neilo Trindade<sup>1</sup>

<sup>1</sup> Institute of Physics/University of São Paulo(Brazil)

<sup>2</sup> Technological Characterization Laboratory/University of São Paulo(Brazil)

<sup>3</sup> Graduate Program in Science and Technology of Materials/São Paulo State University(Brazil)

<sup>4</sup> Department of Materials Science and Engineering/Clemson University(USA)

09:40 - 10:00

(4C-03) Processes related to phototransfer from deep traps in BeO

\*Makaiko Chithambo<sup>1</sup>

<sup>1</sup> Rhodes University(South Africa)

10:00 - 10:20

(4C-04) Ce Activated BaB<sub>4</sub>O<sub>7</sub> Phosphor for Thermoluminescence Electron Dosimetry

\*Kishor Hanumant Gavhane<sup>1</sup>, Shailendra S. Dahiwal<sup>1</sup>, Sanjay D. Dhole<sup>2</sup>

<sup>1</sup> Savitribai Phule Pune University, Pune(India)

<sup>2</sup> Dnyaan Prasad Global University, Pune (DPGU), Pimpri-Chinchwad, Pune(India)

#### Persistent phosphor *Chairs: Ying Lv, Taisei Hangai*

10:50 - 11:10

(4C-05) Defect related spectroscopic properties of Yb-doped CaF<sub>2</sub> nanocrystals

Giorgio Enrico Gagliardo Briuccia<sup>1</sup>, Vitalii Boiko<sup>1</sup>, Bogusław Macalik<sup>1</sup>, Vladyslav Seminko<sup>2</sup>, Mirosława Pawlyta<sup>3</sup>, Oleksii Bezukrovnyi<sup>1</sup>, Andris Antuzevičs<sup>4</sup>, Anatolijs Šarakovskis<sup>4</sup>, \*Dariusz Hreniak<sup>1</sup>

<sup>1</sup> Institute of Low Temperature and Structure Research, Polish Academy of Sciences(Poland)

<sup>2</sup> Institute for Scintillation Materials, National Academy of Sciences of Ukraine(Ukraine)

<sup>3</sup> Materials Research Laboratory, Silesian University of Technology(Poland)

<sup>4</sup> Institute of Solid State Physics, University of Latvia(Latvia)

11:10 - 11:30

(4C-06) Spectral Engineering of Invisible Persistent Luminescence from UV to NIR

\*Guna Doke<sup>1,2</sup>, Andris Antuzevics<sup>1</sup>, Pavels Radionovs<sup>1</sup>, Guna Krieke<sup>1,2</sup>, Aleksej Zarkov<sup>2</sup>

<sup>1</sup> Institute of Solid State Physics, University of Latvia(Latvia)

<sup>2</sup> Institute of Chemistry, Vilnius University(Lithuania)

11:30 - 11:50

(4C-07) ZnGa<sub>2</sub>O<sub>4</sub>:Cr<sup>3+</sup> persistent luminescence nanoparticles encapsulated in a hybrid nanocarrier for potential biomedical applications

\*Piotr Kuich<sup>1</sup>, Adrian Cernescu<sup>2</sup>, Urszula Bazylińska<sup>1</sup>, Dominika Wawrzynczyk<sup>1</sup>

<sup>1</sup> Wrocław University of Science and Technology(Poland)

<sup>2</sup> neaspec - attocube systems AG(Germany)

11:50 - 12:10

**(4C-08) The Impact of Nanostructuring on the Persistent Luminescence of Metal Halides**Emmanuela Di Giorgio<sup>1</sup>, Chiara Maria Solinas<sup>1,2,3</sup>, Philippe F Smet<sup>3</sup>, Andrea Fasciolo<sup>1</sup>, Francesco Di Stasio<sup>2</sup>, Alberto Martinelli<sup>4</sup>, Mauro Fasoli<sup>5</sup>, Francesca Cova<sup>5</sup>, \*Federico Locardi<sup>1</sup><sup>1</sup> Department of Chemistry, University of Genoa, 16146 Genova (Italy)<sup>2</sup> Photonic Nanomaterials, Italian Institute of Technology, 16163 Genova (Italy)<sup>3</sup> LumiLab, Department of Solid State Sciences, Ghent University, 9000 Ghent (Belgium)<sup>4</sup> CNR-SPIN, 16152 Genova (Italy)<sup>5</sup> Department of Materials Science, University of Milano – Bicocca, 20125 Milano, (Italy)**Persistent phosphor** Chairs: Victor Castaing, Jian Xu

13:10 - 13:30

**(4C-09) Study on intrinsic trap centers and rare-earth-ion regulation behaviors in oxynitride persistent luminescence materials**\*Ying Lv<sup>1,2</sup>, Jumpei Ueda<sup>1</sup><sup>1</sup> Japan Advanced Institute of Science and Technology (Japan)<sup>2</sup> Jiangxi University of Water Resources and Electric Power (China)

13:30 - 13:50

**(4C-10) Red Persistent Luminescence Properties in Eu<sup>2+</sup>-doped Sr<sub>3</sub>Al<sub>2</sub>O<sub>5</sub>Cl<sub>2</sub> by Controlling Lanthanide Electron Traps**\*Taisei Hangai<sup>1</sup>, Sana Takagi<sup>1</sup>, Jumpei Ueda<sup>1</sup><sup>1</sup> Japan Advanced Institute of Science and Technology (Japan)

13:50 - 14:10

**(4C-11) Defect-engineered Ca<sub>2</sub>SnO<sub>4</sub>:RE (Sm<sup>3+</sup>, Pr<sup>3+</sup>) Phosphors for Battery Free UV Dose Monitoring**\*Yunsang Lee<sup>1,2</sup>, Sangwon Wi<sup>1,2</sup><sup>1</sup> Soongsil University (Korea)<sup>2</sup> Integrative Institute of Basic Sciences (Korea)

14:10 - 14:30

**(4C-12) Photonic Neural Network Processing based on Long-Persistent Luminescence and *f-f* Transitions of Luminescent Materials**\*Sangwon Wi<sup>1</sup>, YuJune Kim<sup>1</sup>, N. D. Toan<sup>1</sup>, Tae-ung Ha<sup>2</sup>, Ky-ju Lee<sup>2</sup>, Yunsang Lee<sup>1</sup><sup>1</sup> Soongsil University (Korea)<sup>2</sup> Chungnam National University (Korea)

14:30 - 14:50

**(4C-13) Persistent Luminescence as Emergent Relaxation in a Disordered Kinetic Landscape**\*José Miranda de Carvalho<sup>1</sup><sup>1</sup> UFABC - Federal University of ABC (Brazil)

14:50 - 15:10

**(4C-14) Enhanced Afterglow Properties of Orange-Red Emitting Sr-silicate Nanophosphors for Efficient Biological Applications**Vishnu Vikesh Jaiswal<sup>1</sup>, Haranath Divi<sup>2</sup>, Anamika A Jaiswal<sup>3</sup>, Abdul Azeem P<sup>2</sup>, \*Nagabhushana KR<sup>1</sup><sup>1</sup> Amity University Bengaluru (India)<sup>2</sup> National Institute of Technology Warangal (India)<sup>3</sup> IQVIA, Omega, Embassy Tech Square Bangalore (India)**Persistent phosphor** Chairs: Dariusz Hreniak, Victor Castaing

15:30 - 15:50

**(4C-15) Tailoring trap depth distributions in ZnGa<sub>2</sub>O<sub>4</sub>:Cr<sup>3+</sup> persistent luminescence nanoparticles for cryopreservation monitoring and biosensing applications**\*Celina Matuszewska<sup>1,2</sup>, Izabel Mazon Anselmo<sup>1</sup>, Nadia Touati<sup>2</sup>, Laurent Binet<sup>2</sup>, Zied Ferjaoui<sup>3</sup>, Cyrille Richard<sup>3</sup>, Bruno Viana<sup>2</sup>, Corinne Chaneac<sup>1</sup><sup>1</sup> LCMCP, CNRS, Sorbonne Université (France)<sup>2</sup> IRCP, PSL, CNRS, Chimie ParisTech (France)<sup>3</sup> UTCBS, CNRS, INSERM, Université Paris Cité (France)

15:50 - 16:10

**(4C-16) H<sub>2</sub>O<sub>2</sub>-Enhanced Persistent Luminescence of Cr-Doped ZnGa<sub>2</sub>O<sub>4</sub> Nanoparticles for Ultrasensitive Biosensing**\*Jianhua Liu<sup>1</sup>, Yingshuai Liu<sup>3</sup>, Daniel Scherman<sup>2</sup>, Cyrille Richard<sup>2</sup><sup>1</sup> Xinjiang University (China)<sup>2</sup> Université Paris Cité (France)<sup>3</sup> Southwest University (China)

16:10 - 16:30

(4C-17) Defect-mediated luminescence in alkaline earth phosphates

\*Andris Antuzevics<sup>1</sup>, Didzis Salnajs<sup>1</sup>, Guna Doke<sup>1,2</sup>, Guna Krieke<sup>1,2</sup>, Sapargali Pazylbek<sup>2</sup>, Aleksej Zarkov<sup>2</sup>

<sup>1</sup> Institute of Solid State Physics, University of Latvia(Latvia)

<sup>2</sup> Institute of Chemistry, Vilnius University(Lithuania)

16:30 - 16:50

(4C-18) Multi-layer time-resolved optical authentication using luminescent physical unclonable functions

\*Ana Rita Bastos<sup>1,2</sup>, Lília Dias<sup>1,4</sup>, Lianshe Fu<sup>3,4</sup>, Rute A.S. Ferreira<sup>3,4</sup>, Paulo S.B. André<sup>2,1</sup>

<sup>1</sup> Instituto de Telecomunicações(Portugal)

<sup>2</sup> Department of Electrical and Computer Engineering, Instituto Superior Técnico, Universidade de Lisboa(Portugal)

<sup>3</sup> Department of Physics, University of Aveiro(Portugal)

<sup>4</sup> CICECO—Aveiro Institute of Materials, University of Aveiro(Portugal)

16:50 - 17:10

(4C-19) Persistent and Photostimulable Phosphors at Cryogenic Temperatures: Dynamic Trapping and Luminescence

\*Joseph Schuyt<sup>1</sup>, Hellen Nalumaga<sup>1</sup>, Shen Chong<sup>1</sup>, Grant Williams<sup>1</sup>

<sup>1</sup> Victoria University of Wellington (New Zealand)

17:10 - 17:30

(4C-20) From Thermal Ionization to Modulometric Luminescence

Thermometry: A Frequency-Domain Approach

\*Manuel Romero<sup>1</sup>, Victor Castaing<sup>1,4</sup>, Shunsuke Murai<sup>2</sup>, Daniel Rytz<sup>3</sup>, Gabriel Lozano<sup>1</sup>, Hernán Míguez<sup>1</sup>

<sup>1</sup> Institute of Materials Science of Seville (CSIC-US)(Spain)

<sup>2</sup> Department of Physics & Electronics, Graduate School of Engineering, Osaka Metropolitan University(Japan)

<sup>3</sup> BREVALOR Sàrl(Switzerland)

<sup>4</sup> Laboratoire de Physique de la Matière Condensée (PMC), CNRS, Ecole Polytechnique-Institut Polytechnique de Paris(France)

## ■ September 25 (Fri)

### Room D

Venue: Center bldg. West-wing Room #12

**Nanomaterial/Upconversion** *Chairs: Pablo Acosta Mora, Steve Smith*

09:00 - 09:20

(4D-01) Tailoring the Photophysical Properties of Natural Photosensitizers through Selenium Nanoparticle-Surface Interactions

\*Lilia Courrol<sup>1</sup>, Geovanna Noleto Barnabé<sup>1</sup>, Marcia Regina Franzolin<sup>2</sup>, Isabela Santos Lopes<sup>1</sup>

<sup>1</sup> Universidade Federal de São Paulo(Brazil)

<sup>2</sup> Instituto Butantan(Brazil)

09:20 - 09:40

(4D-02) Mechanisms of ligand-assisted transformation from defect to band-edge emission in AgInS<sub>2</sub> quantum dots

Takahiro Seto<sup>1</sup>, Taro Takayama<sup>1</sup>, \*Yasushi Hamanaka<sup>1</sup>, Toshihiro Kuzuya<sup>2</sup>

<sup>1</sup> Nagoya Inst. Tech.(Japan)

<sup>2</sup> Muroran Inst. Tech.(Japan)

09:40 - 10:00

(4D-03) Unveiling Exciton Fine Structure in Atomically Thin CsPbBr<sub>3</sub> Nanoplatelets

Kaouther Tlili<sup>1</sup>, Victor Guilloux<sup>2</sup>, Violette Steinmetz<sup>2</sup>, Kais Boujdaria<sup>1</sup>, Emmanuel Lhuillier<sup>2</sup>, Thierry Barisien<sup>2</sup>, Laurent Legrand<sup>2</sup>, Christophe Testelin<sup>2</sup>, \*Maria Chamarro<sup>2</sup>

<sup>1</sup> Université de Carthage, Faculté des Sciences de Bizerte, Laboratoire de Physique des Matériaux : Structure et Propriétés, 7021 Zarzouna, Bizerte(Tunisia)

<sup>2</sup> Sorbonne Université, CNRS, Institut des NanoSciences de Paris, F-75005, Paris(France)

10:00 - 10:20

(4D-04) Not Making the Cut: Photon-Correlation Evidence Against Quantum Cutting in Yb<sup>3+</sup> Doped CsPbCl<sub>3</sub> Nanocrystals

\*Vincent R.M. Benning<sup>1</sup>, Faris Horani<sup>2</sup>, Daniel R. Gamelin<sup>2</sup>, Freddy T. Rabouw<sup>1</sup>

<sup>1</sup> Utrecht University(Netherlands)

<sup>2</sup> University of Washington(USA)

10:50 - 11:10

(4D-05) Synthesis, structural, and optical properties of low-dimensional hybrid lead halide perovskite.

\*Dagmara Stefańska<sup>1</sup>, Anna Gągor<sup>1</sup>, Barbara Popanda<sup>1</sup>, Maciej Ptak<sup>1</sup>, Mirosław Mączka<sup>1</sup>

<sup>1</sup> Institute of Low Temperature and Structure Research PAS(Poland)

11:10 - 11:30

(4D-06) Various doping strategies for inorganic, micrometric halide perovskites and corresponding results

\*Mariusz Stefanski<sup>1</sup>, Bartosz Bondzior<sup>1</sup>, Weronika Jagielowicz<sup>1</sup>, Maciej Ptak<sup>1</sup>, Bibo Lou<sup>2</sup>, Chong-Geng Ma<sup>2</sup>

<sup>1</sup> Institute of Low Temperature and Structure Research PAS(Poland)

<sup>2</sup> School of Optoelectronic Engineering and CQUPT-BUL Innovation Institute, Chongqing University of Posts and Telecommunications, No. 2 Chongwen Road, Nan'an District, Chongqing 400065, China(China)

11:30 - 11:50

(4D-07) High-Throughput Photon Correlation Quantifies Biexciton-Efficiency Heterogeneity in Quantum Shells

\*Tjom Arens<sup>1</sup>, Mikhail Zamkov<sup>2</sup>, Freddy Rabouw<sup>1</sup>

<sup>1</sup> Utrecht University(Netherlands)

<sup>2</sup> Bowling Green State University(USA)

11:50 - 12:10

(4D-08) Bifunctional molecular materials: exploring the opto-magnetic properties of a mononuclear Yb complex

\*Julio Corredoira Vázquez<sup>1,2</sup>, Paula Oreiro-Martínez<sup>1</sup>, Ana M. García-Deibe<sup>1</sup>, Jesús Sanmartín Matalobos<sup>1,2</sup>, Matilde Fondo<sup>1</sup>

<sup>1</sup> Departamento de Química Inorgánica, Facultade de Química, Universidade de Santiago de Compostela, 15782 Santiago de Compostela(Spain)

<sup>2</sup> Institute of Materials (iMATUS), Universidade de Santiago de Compostela, 15782 Santiago de Compostela(Spain)

**Thermometer** *Chairs: Rogéria Rocha Gonçalves, Erving Ximendes*

13:10 - 13:30

(4D-09) Hybrid thermometry–photodynamic therapy nanoplatfrom fully operating in the NIR range

\*Ian Pompermayer Machado<sup>1</sup>, Ayse Alici<sup>1</sup>, Syed Razi<sup>1</sup>, Maximilian Stremel<sup>2</sup>, Markus Suta<sup>2</sup>, Anna M. Kaczmarek<sup>1</sup><sup>1</sup> NanoSensing Group, Department of Chemistry, Ghent University, Krijgslaan 289-S3, 9000 Gent, Belgium(Belgium)<sup>2</sup> Inorganic Photoactive Materials, Institute of Inorganic Chemistry, Heinrich Heine University Düsseldorf, Universitätsstraße 1, 40225 Düsseldorf, Germany(Germany)

13:30 - 13:50

(4D-10) Thermal Sensing in Challenging Environments via Thermoluminescence and Scintillation

\*Justyna Anna Zeler<sup>1</sup>, Aleksandra Owczarek<sup>1</sup>, Dominika Grzesiak<sup>1</sup>, Anna Klecha<sup>1</sup>, Luís D. Carlos<sup>2</sup>, Eugeniusz Zych<sup>1</sup><sup>1</sup> University of Wrocław, Faculty of Chemistry(Poland)<sup>2</sup> Phantom-g, CICECO-Aveiro Institute of Materials, Department of Physics, University of Aveiro(Portugal)

13:50 - 14:10

(4D-11) Luminescence Thermometry 2.0: Full-Spectrum Machine Learning Approaches to Elevate Temperature Measurement Performance

\*Zoran Ristić<sup>1</sup>, Aleksandar Ćirić<sup>1</sup>, Miroslav Dramićanin<sup>1</sup><sup>1</sup> Centre of Excellence for Photoconversion, Vinča Institute of Nuclear Sciences - National Institute of the Republic of Serbia, University of Belgrade, Belgrade, Serbia (Serbia)

14:10 - 14:30

(4D-12) Multiparametric Sensing from a Single Luminescent Platform

\*Araceli de Aquino Samper<sup>1</sup>, Liyan Ming<sup>1</sup>, Riccardo Marin<sup>1</sup><sup>1</sup> Universidad Autónoma de Madrid(Spain)

14:30 - 14:50

(4D-13) Convolutional Neural Networks-enhanced Luminescence Thermometry

\*Liyan Ming<sup>1</sup>, Erving Ximendes<sup>2</sup>, Daniel Jaque<sup>2</sup>, Riccardo Marin<sup>1</sup><sup>1</sup> Intelligent Optical Nanomaterials (IONs) Lab, Universidad Autónoma de Madrid(Spain)<sup>2</sup> Universidad Autónoma de Madrid(Spain)

14:50 - 15:10

(4D-14) Reading the Past: Eu<sup>3+</sup>/Eu<sup>2+</sup> Co-doped Materials as Thermal History Phosphors\*Maja Szymczak<sup>1</sup>, Lukasz Marciniak<sup>1</sup><sup>1</sup> Institute of Low Temperature and Structure Research Polish Academy of Sciences(Poland)**Nanomaterial/Upconversion** *Chairs: Yasushi Hamanaka, Maria Chamarro*

15:30 - 15:50

(4D-15) Statistical Analysis of NIR to Visible Upconversion Luminescence from Single NaYF<sub>4</sub>:Yb<sup>3+</sup>,Tm<sup>3+</sup> Nanoparticles on Plasmonic Substrates\*Steve Smith<sup>1</sup><sup>1</sup> South Dakota Mines(USA)

15:50 - 16:10

(4D-16) Enhancing Light Extraction in Luminescent Coatings: The Role of Nanocrystal Size and Gold Nanosphere Scatterers

\*Arjun Babu<sup>1</sup>, François Reveret<sup>1</sup>, Audrey Potdevin<sup>1</sup>, Federico Cisnetti<sup>1</sup>, Kevin Lemoine<sup>1</sup>, Geneviève Chadeyron<sup>1</sup>, Philippe Boutinaud<sup>1</sup>, Emmanuel Centeno<sup>2</sup>, Rafik Smaali<sup>2</sup>, Damien Boyer<sup>1</sup><sup>1</sup> Université Clermont Auvergne, Clermont Auvergne INP, CNRS, Institut de Chimie de Clermont-Ferrand (ICCF)(France)<sup>2</sup> Université Clermont Auvergne, CNRS, SIGMA Clermont, Institut Pascal, Clermont-Ferrand(France)

16:10 - 16:30

(4D-17) A crown ether-ammonium supramolecular platform for luminescent [Cu<sub>4</sub>I<sub>6</sub>]<sup>2-</sup> cluster phosphors\*Disnel Ferrera<sup>1</sup>, Vojtech Jancik<sup>2</sup>, Estrella Ramos<sup>1</sup>, Diego Solis<sup>1</sup>, Juan de Dios Guzmán<sup>2</sup>, Juan Carlos Alonso<sup>1</sup>, Ioantani Álvarez<sup>1</sup>, Jesús U Balderas<sup>1</sup><sup>1</sup> Institute of Materials Research, National Autonomous University of Mexico(Mexico)<sup>2</sup> Institute of Chemistry, National Autonomous University of Mexico(Mexico)

16:30 - 16:50

(4D-18) Design of lanthanide MOFs for luminescence thermometry: from directed energy transfer to laser surgery application

\*Valentina V Utochnikova<sup>1</sup>, Daniil S Koshelev<sup>1</sup>, Lyubov O Tcelykh<sup>1</sup>, Anastasiia V Orlova<sup>1</sup><sup>1</sup> Lomonosov Moscow State University(Russia)

## ■ September 25 (Fri)

### Room E

Venue: Base of ILAS bldg.

#### LED phosphor *Chair: Takatoshi Seto*

09:00 - 09:20

(4E-01) Characterization of defects in red-emitting  $\text{ZnTa}_2\text{O}_6\text{:Eu,Li}$  using phototransferred thermoluminescence.

\*Fiindje Elias Muliokela Elago<sup>1,2</sup>, Luyanda Noto<sup>1</sup>, Mubarak Yagoub<sup>3</sup>

<sup>1</sup> Univ. SA(South Africa)

<sup>2</sup> CB Univ.(Zambia)

<sup>3</sup> Univ. J(South Africa)

09:20 - 09:40

(4E-02) Effect on photoluminescence property in mono, di- and trivalent ions co-doped with rare earth ion activated molybdates phosphors for display device applications

\*Shivakumara C<sup>1</sup>

<sup>1</sup> Indian Institute of Science(India)

09:40 - 10:00

(4E-03) Optical and structural insights of  $\text{Tb}^{3+}$  doped  $\text{Na}_2\text{SrMg}(\text{PO}_4)_2$  phosphors for solid state lighting and anticounterfeiting applications

JAYASREE JAYARAMAN<sup>1</sup>, RATHINA MALA V<sup>2</sup>, \*S Masilla Moses Kennedy<sup>1</sup>

<sup>1</sup> SRI SIVASUBRAMANIYA NADAR COLLEGE OF ENGINEERING(India)

<sup>2</sup> SRI VIDYA COLLEGE OF ENGINEERING AND TECHNOLOGY(India)

#### Organic molecule/MOF/Complex/OLED *Chair: Gaël Ung*

10:50 - 11:10

(4E-04) Luminescent photochromism in multifunctional metal-organic materials based on uranyl cations

\*Jakub J. Zakrzewski<sup>1,2</sup>, Aleksander Hoffman<sup>1</sup>, Junhao Wang<sup>3</sup>, Dariusz Matoga<sup>1</sup>, Hiroko Tokoro<sup>3</sup>, Shin-ichi Ohkoshi<sup>2</sup>, Szymon Choraży<sup>1</sup>

<sup>1</sup> Faculty of Chemistry, Jagiellonian University(Poland)

<sup>2</sup> Department of Chemistry, The University of Tokyo(Japan)

<sup>3</sup> Institute of Pure and Applied Sciences, University of Tsukuba(Japan)

11:10 - 11:30

(4E-05) Synthesis, Structures, and Luminescent Properties of Divalent Lanthanide Triflates

\*David Jan van Gerven<sup>1</sup>, Alina Mircov<sup>1</sup>, Niko T. Flosbach<sup>1</sup>, Mathias S. Wickleder<sup>1</sup>

<sup>1</sup> University of Cologne(Germany)

11:30 - 11:50

(4E-06) Temperature-dependent spectroscopic properties of Ln(III)-based chiral complexes

\*Silvia Ruggieri<sup>1</sup>, Fernando Eduardo Maturi<sup>2,3</sup>, Albano Neto Carneiro Neto<sup>2,4</sup>, Cristina Sissa<sup>5</sup>, Francesco Zinna<sup>6</sup>, Lorenzo Di Bari<sup>6</sup>, Andrea Gualandi<sup>7</sup>, Luis Dias Carlos<sup>2</sup>, Fabio Piccinelli<sup>1</sup>

<sup>1</sup> University of Verona(Italy)

<sup>2</sup> University of Aveiro(Portugal)

<sup>3</sup> Autonomous University of Madrid(Spain)

<sup>4</sup> University of Santiago de Compostela(Spain)

<sup>5</sup> University of Parma(Italy)

<sup>6</sup> University of Pisa(Italy)

<sup>7</sup> University of Bologna(Italy)

11:50 - 12:10

(4E-07) Synthesis and Characterization of a Tetrakis Eu(III) Furan-2-Carboxylate Complex with Bright Red Luminescence and Excellent Thermometric Performance

\*Raj Kishore Das<sup>1,2</sup>, S. Maji<sup>1</sup>, K. Sundararajan<sup>1,2</sup>, Satendra Kumar<sup>1,2</sup>

<sup>1</sup> Indira Gandhi Centre for Atomic Research(India)

<sup>2</sup> Homi Bhabha National Institute (HBNI)(India)

#### Organic molecule/MOF/Complex/OLED *Chairs: Yasuchika Hasegawa, Mathias Wickleder*

13:10 - 13:30

(4E-08) Determination of the structural factors responsible for high circularly polarized luminescence metrics

\*Gaël Ung<sup>1</sup>

<sup>1</sup> University of Connecticut(USA)

13:30 - 13:50

(4E-09) Multifunctionality of polar luminescent Mn(II)-based molecular hybrids for optical sensing and multitasking devices

\*Aleksander Hoffman<sup>1,2</sup>, Jakub J. Zakrzewski<sup>1,3</sup>, Mikołaj Zychowicz<sup>1,2</sup>, Jan Rzepiela<sup>1</sup>, Sebastian Baś<sup>1</sup>, Shin-ichi Ohkoshi<sup>3</sup>, Fumitaka Kagawa<sup>4,5</sup>, Szymon Choraży<sup>1</sup><sup>1</sup> Faculty of Chemistry, Jagiellonian University(Poland)<sup>2</sup> Doctoral School of Exact and Natural Sciences, Jagiellonian University(Poland)<sup>3</sup> Department of Chemistry, School of Science, The University of Tokyo(Japan)<sup>4</sup> Department of Physics, Tokyo Institute of Technology(Japan)<sup>5</sup> RIKEN Center for Emergent Matter Science (CEMS)(Japan)

13:50 - 14:10

(4E-10) Excitation wavelength dependent luminescence of zeolite-like Ln-MOFs with isonicotinic acid

\*Nikita Madhukar<sup>1</sup>, Shun Fuji<sup>1</sup>, Haruki Takiguchi<sup>1</sup>, Miki Hasegawa<sup>1</sup><sup>1</sup> Aoyama Gakuin University(Japan)

14:10 - 14:30

(4E-11) Ionic Liquid Crystals Bearing Polycyanidometallates Towards Functional Luminescent Molecular Hybrids

\*Kinga Szczecińska<sup>1,2</sup>, Aleksander Hoffman<sup>1,2</sup>, Junhao Wang<sup>3</sup>, Sebastian Lalik<sup>4</sup>, Monika Marzec<sup>4</sup>, Fumitaka Kagawa<sup>5</sup>, Hiroko Tokoro<sup>3</sup>, Shin-ichi Ohkoshi<sup>6</sup>, Szymon Choraży<sup>1</sup><sup>1</sup> Faculty of Chemistry, Jagiellonian Univ., Kraków, 30-387(Poland)<sup>2</sup> Doctoral School of Exact and Natural Sciences, Jagiellonian Univ., Kraków, 30-348(Poland)<sup>3</sup> Department of Materials Science, Institute of Pure and Applied Sciences, Univ. of Tsukuba, Tsukuba, 305-8573(Japan)<sup>4</sup> Faculty of Physics, Astronomy and Applied Computer Science, Jagiellonian Univ., Kraków, 30-348(Poland)<sup>5</sup> RIKEN Center for Emergent Matter Science (CEMS), Wako, 351-0198(Japan)<sup>6</sup> Department of Chemistry, School of Science, The Univ. of Tokyo, Tokyo, 113-0033(Japan)

14:30 - 14:50

(4E-12) Tuning Light with Pressure and Heat: DABNA as a Dual Sensor of Extreme Conditions

\*Przemysław Woźny<sup>1</sup>, Zhao Fang<sup>1</sup>, Jan Moszczyński<sup>1</sup>, Tamilarasu Ganeshamurthy<sup>1</sup>, Szymon Sobczak<sup>1</sup>, Sali Jana<sup>2</sup>, Natalia Majewska<sup>3</sup>, Sebastian Mahlik<sup>3</sup>, Eli Zysman-Coleman<sup>2</sup>, Marcin Runowski<sup>1</sup><sup>1</sup> Adam Mickiewicz University(Poland)<sup>2</sup> University of St Andrews(UK)<sup>3</sup> University of Gdansk(Poland)

14:50 - 15:10

(4E-13) Beyond the molecular antenna: charge-transfer state driving record-luminescence in Ln(III) complexes via supramolecular energy harvesting

\*Lada Puntus<sup>1,2</sup><sup>1</sup> A.V. Topchiev Institute of Petrochemical Synthesis, Russian Academy of Sciences(Russia)<sup>2</sup> V.A. Kotel'nikov Institute of Radioengineering and Electronics, Russian Academy of Sciences(Russia)**Spectroscopy** Chairs: Natalia Majewska, Shunsuke Murai

15:30 - 15:50

(4E-14) Two Photons, One Excited Tm<sup>2+</sup>: Upconversion in RbCaBr<sub>3</sub>:Tm<sup>2+</sup>\*Moritz Justus Dango<sup>1</sup>, Claudia Wickleder<sup>1</sup><sup>1</sup> University of Siegen(Germany)

15:50 - 16:10

(4E-15) Lanthanide-doped Sesquioxides: An alternative approach to analysis and visualization of Stark splitting energy levels

\*Andrei V Racu<sup>1</sup>, Daniel Vizman<sup>2</sup>, Michail G Brik<sup>3,4,5,6</sup><sup>1</sup> National Institute of R&D for Electrochemistry and Condensed Matter, Timisoara(Romania)<sup>2</sup> West University of Timisoara(Romania)<sup>3</sup> Vinča Institute of Nuclear Sciences, University of Belgrade(Serbia)<sup>4</sup> School of Optoelectronic Engineering and CQUPT-BUL Innovation Institute, Chongqing(China)<sup>5</sup> Institute of Physics, University of Tartu(Estonia)<sup>6</sup> Academy of Romanian Scientists, Bucharest(Romania)

16:10 - 16:30

(4E-16) Correlated inhomogeneous absorption profiles across distinct optical transitions in a rare-earth doped crystal

Flora Segur<sup>1,2</sup>, \*Sacha Welinski<sup>1</sup>, Alban Ferrier<sup>3,4</sup>, Perrine Berger<sup>1</sup>, Anne Louchet-Chauvet<sup>2</sup><sup>1</sup> Thales Research & Technology(France)<sup>2</sup> Institut Langevin, ESPCI(France)<sup>3</sup> Institut de Recherche de Chimie Parsi(France)<sup>4</sup> Sorbonne Université(France)

16:30 - 16:50

(4E-17) Boosting the Photoluminescence Quantum Yield of Deep-Blue Emission in  $\text{CaYGaO}_4:\text{Bi}^{3+}$  via Lithium-Based Flux Additives For Plant Applications

\*Abdelrhman Yousif Mohammed<sup>1,2</sup>, Turshatov Andrey<sup>1</sup>, Busko Dmitry<sup>1</sup>, Rajagopalan Krishnan<sup>1</sup>, Elizabeth Coetsee<sup>4</sup>, Richards Bryce Sydney<sup>1,3</sup>

<sup>1</sup> Institute of Microstructure Technology, Karlsruhe Institute of Technology (KIT), Hermann-von-Helmholtz-Platz 1 76344 Eggenstein-Leopoldshafen, Germany (Germany)

<sup>2</sup> University of Khartoum, Department of Physics, Faculty of Education, University of Khartoum, P.O. Box 321, Omdurman 11115, Sudan(Sudan)

<sup>3</sup> Light Technology Institute, Karlsruhe Institute of Technology, Engesserstrasse 13, 76131 Karlsruhe, Germany(Germany)

<sup>4</sup> Department of Physics, University of the Free State, Bloemfontein ZA9300, South Africa(South Africa)

16:50 - 17:10

(4E-18) Luminescence of  $\text{Na}_{3.6}\text{Y}_{1.8-x}\text{Sc}_x(\text{PO}_4)_3$  solid solutions under synchrotron radiation

\*Nataliya Krutyak<sup>1</sup>, Vitali Nagirnyi<sup>1</sup>, Dmitry Spassky<sup>1</sup>

<sup>1</sup> Institute of Physics, University of Tartu(Estonia)

## ■ September 26 (Sat)

### Lecture Hall A

Venue: 3F of ILAS bldg.

**Nanomaterial/Upconversion** *Chairs: Lingdong Sun, Dagmara Stefańska*

09:20 - 09:40

(5A-01) Direct laser writing synthesis of semiconductor nanocrystal

Mansour Abdulrhman<sup>2</sup>, Adilet Zhakeyev<sup>2</sup>, \*Jose Marques-Hueso<sup>1</sup>

<sup>1</sup> Universitat De Valencia(Spain)

<sup>2</sup> Heriot-Watt University(UK)

09:40 - 10:00

(5A-02) Nonlinear optical behavior of colloidal core-shell nanoparticles for sensing and labelling applications.

\*Agnieszka Siomra<sup>1</sup>, Marcin Nyk<sup>1</sup>

<sup>1</sup> Wroclaw University of Science and Technology(Poland)

10:00 - 10:20

(5A-03) Strategies to Luminescence Anti-thermal Quenching

\*Ling Huang<sup>1</sup>

<sup>1</sup> Zhejiang University(China)

10:40 - 11:00

(5A-04) Nanocrystalline trigonal  $\text{TbPO}_4 \cdot n\text{H}_2\text{O}$ : a simple compound with remarkably sophisticated optical properties

\*Fabio Piccinelli<sup>1</sup>, Silvia Ruggieri<sup>1</sup>, Emanuele De Rienzo<sup>1</sup>, Leonardo Ceccon<sup>1</sup>, Marco Bettinelli<sup>1</sup>, Francesco Zinna<sup>2</sup>, Lorenzo Arrico<sup>2</sup>, Lorenzo Di Bari<sup>2</sup>

<sup>1</sup> Luminescent Materials Laboratory, University of Verona(Italy)

<sup>2</sup> Department of Chemistry and Industrial Chemistry, University of Pisa(Italy)

11:00 - 11:20

(5A-05) A Strategy to enhance photon upconversion emission in lanthanide metal-organic frameworks

\*Min Ying Tsang<sup>1</sup>, Tapendu Samanta<sup>1</sup>, Aleksandra Gerszendorf<sup>1</sup>, Szymon J. Zelewski<sup>2</sup>, Jan Zareba<sup>2</sup>

<sup>1</sup> Lukaszewicz PORT(Poland)

<sup>2</sup> Wroclaw University of Science and Technology(Poland)

11:20 - 11:40

(5A-06) Luminescence enhancement in monolayer  $\text{MoS}_2$  driven by a ferroelectric substrate phase transition

\*David Hernández Pinilla<sup>1,2</sup>, Dennis P. Cachago<sup>1</sup>, Yi An Xia<sup>1</sup>, Guillermo López Polín<sup>1,3</sup>, Maria de la O Ramírez<sup>1,2,3</sup>, Luisa E. Bausá<sup>1,2,3</sup>

<sup>1</sup> Universidad Autónoma de Madrid(Spain)

<sup>2</sup> Instituto Nicolás Cabrera(Spain)

<sup>3</sup> Condensed Matter Physics Center (IFIMAC)(Spain)

11:40 - 12:00

(5A-07) Taming  $\text{Mn}^{5+}$ : From Synthetic Constraints to Optical Response in Nanoparticles

\*Maxime Delaey<sup>1</sup>, Azin Khamesan<sup>2,3</sup>, Quan Zhang<sup>4</sup>, Daniela Maggioni<sup>2</sup>, Daniela Meroni<sup>2</sup>, Dirk Poelman<sup>1</sup>

<sup>1</sup> Ghent university(Belgium)

<sup>2</sup> Università degli Studi di Milano(Italy)

<sup>3</sup> University of Ottawa(Canada)

<sup>4</sup> Anhui Jianzhu University(China)

## ■ September 26 (Sat)

### Lecture Hall B

Venue: 3F of ILAS bldg.

#### Scintillator *Chair: Jian Xu*

09:20 - 09:40

(5B-01) Microstructure and luminescence of  $(\text{Mg}_{1-x}\text{Zn}_x)\text{Al}_2\text{O}_4$  solid state solutions

\*Luiz G. Jacobsohn<sup>1</sup>, Robin L. Conner<sup>1</sup>

<sup>1</sup> Clemson University(USA)

09:40 - 10:00

(5B-02) Crucible-Free Melt Growth of Ultrahigh Melting Point  $\text{Y}_2\text{O}_3$  Crystal by the OCCC Method

\*Kei Kamada<sup>1,2</sup>, Taketoshi Tomida<sup>2</sup>, Masanori Kitahara<sup>2</sup>, Masao Yoshino<sup>1,2</sup>, Rikito Murakami<sup>1,2</sup>, Vladimir Kochurikhin<sup>2</sup>, Yasuhiro Shoji<sup>2</sup>, Koichi Kakimoto<sup>1</sup>, Akira Yoshikawa<sup>1,2</sup>

<sup>1</sup> Tohoku Univ.(Japan)

<sup>2</sup> C&A Corporation(Japan)

10:00 - 10:20

(5B-03) Visualizing non-radiative electron annihilation processes following the ionization of  $\text{Ce}^{3+}$  ions in  $\text{Lu}_3\text{Al}_{5-x}\text{Ga}_x\text{O}_{12}:\text{Ce}$  ( $x=3-5$ ) crystals by a mid-infrared free-electron laser

\*Mamoru Kitaura<sup>1</sup>, Heishun Zen<sup>2</sup>, Shinta Watanabe<sup>3</sup>, Kei Kamada<sup>4</sup>, Kyoung Jin Kim<sup>5</sup>, Akira Yoshikawa<sup>5</sup>, Jumpei Ueda<sup>6</sup>

<sup>1</sup> Yamagata University(Japan)

<sup>2</sup> Kyoto University, IAE(Japan)

<sup>3</sup> AGC(Japan)

<sup>4</sup> Tohoku University, NICHe(Japan)

<sup>5</sup> Tohoku University, IMR(Japan)

<sup>6</sup> JAIST(Japan)

10:40 - 11:00

(5B-04) Observation of crystallization in Eu-doped glass phosphor by in-situ X-ray total scattering and photoluminescence measurements

\*Seiya Shimono<sup>1</sup>, Yasushi Nanai<sup>2</sup>

<sup>1</sup> Japan Synchrotron Radiation Research Institute (JASRI)(Japan)

<sup>2</sup> National Defense Academy(Japan)

#### Thermometer *Chair: Kei Kamada*

11:00 - 11:20

(5B-05) Luminescence thermometry today: latest experiments within a nanoparticle plus LUMETH metrology project

\*Antonio Benayas<sup>1</sup>

<sup>1</sup> nanoBIG - Universidad Autónoma de Madrid (Spain)

11:20 - 11:40

(5B-06) Multimodal Luminescent and Raman Nanothermometry in Acoustofluidic Microdevices

Leonardo C. E. de Barros<sup>1</sup>, Harrison D. A. Santos<sup>1,2</sup>, Wagner F. Silva<sup>1</sup>, Andressa Novatski<sup>3</sup>, Flávio O. S. D'Amato<sup>1,2</sup>, Glauber T. Silva<sup>2,4</sup>, \*Carlos Jacinto da Silva<sup>1,4</sup>

<sup>1</sup> Nano-Photonics and Imaging Group, Institute of Physics, Universidade Federal de Alagoas, Maceió-AL(Brazil)

<sup>2</sup> Group of Physical Acoustics & Microfluidics, Institute of Physics, Universidade Federal de Alagoas, Maceió-AL(Brazil)

<sup>3</sup> Departamento de Física, Universidade Estadual de Ponta Grossa, Ponta Grossa-PR(Brazil)

<sup>4</sup> Programa de Pós-Graduação em Materiais, Centro de Tecnologia, Universidade Federal de Alagoas, Maceió-AL(Brazil)

11:40 - 12:00

(5B-07) Optical Thermometry Study of  $\text{Er}^{3+}$  co-doped  $\text{SrMoO}_4:\text{Dy}^{3+}$  phosphor

\*Praveen Chandra Pandey<sup>1</sup>

<sup>1</sup> Indian Institute of Technology (BHU) Varanasi (India)

## ■ September 26 (Sat)

### Room C

Venue: Center bldg. South-wing Room #11

**Transparent material** *Chairs: Jianrong Qiu, Marcelo Nalin*

09:20 - 09:40

(5C-01) When Upconversion Meets Persistent Luminescence: A Glass Composite Story

\*Leonnam Gotardo Merizio<sup>1</sup>, Luidgi Giordano<sup>1</sup>, Everton Bonturim<sup>2</sup>, Lucas Carvalho Veloso Rodrigues<sup>1</sup>, Danilo Manzani<sup>1</sup>

<sup>1</sup> University of São Paulo (Brazil)

<sup>2</sup> Mackenzie Presbyterian University (Brazil)

09:40 - 10:00

(5C-02) Exploring the potential of Nd<sup>3+</sup>-doped perovskite-type BaLaLiTeO<sub>6</sub> and BaLaNaTeO<sub>6</sub> for transparent ceramics

\*Kacper Albin Prokop<sup>1,2</sup>, Miłosz Siczek<sup>1</sup>, Elżbieta Tomaszewicz<sup>3</sup>, Yannick Gouyot<sup>4</sup>, Sandrine Cottirino<sup>5</sup>, Vincent Garnier<sup>5</sup>, Gilbert Fantozzi<sup>5</sup>, Martyna Zieciak<sup>1</sup>, Malgorzata Guzik<sup>1,2</sup>

<sup>1</sup> University of Wrocław, Faculty of Chemistry, 50-383 Wrocław, Poland (Poland)

<sup>2</sup> Łukasiewicz Research Network – PORT Polish Center for Technology Development, 54-066 Wrocław, Poland (Poland)

<sup>3</sup> West Pomeranian University of Technology, Department of Inorganic and Analytical Chemistry, 71-065 Szczecin, Poland (Poland)

<sup>4</sup> Univ Lyon, Institute Light Matter (iLM), CNRS-Claude Bernard/Lyon1 University, 69100 Villeurbanne, France (Poland)

<sup>5</sup> Institut National des Sciences Appliquées INSA Lyon, Université Claude Bernard Lyon 1, CNRS, MATEIS, 69621 Villeurbanne, France (Poland)

10:00 - 10:20

(5C-03) Development of Rare-Earth-Doped Luminescent Thin Films Grown by Magnetron Sputtering

\*Everton Bonturim<sup>1</sup>, Leonnam Gotardo Merizio<sup>3,2</sup>, João Pedro de Freitas Rodrigues Ribeiro<sup>1</sup>, Bianca Sanches Toledo<sup>1</sup>, Enzo Prevideli de Andrade<sup>1</sup>, Ruan Victor Bastos Durães<sup>1</sup>, Karoline Tiemi Sakai<sup>1</sup>, Lucas Carvalho Veloso Rodrigues<sup>3</sup>

<sup>1</sup> Mackenzie Presbyterian Univ. (Brazil)

<sup>2</sup> University of São Paulo (IQSC/USP) (Brazil)

<sup>3</sup> University of São Paulo (IQ/USP) (Brazil)

10:40 - 11:00

(5C-04) Optical characterization of highly rare-earth ions doped glasses prepared by levitation technique

\*Koki Tanabe<sup>1</sup>, Atsunobu Masuno<sup>1</sup>, Nobuaki Terakado<sup>1</sup>, Yuta Shuseki<sup>1</sup>, Katsuhisa Tanaka<sup>1</sup>

<sup>1</sup> Graduate School of Engineering, Kyoto University (Japan)

11:00 - 11:20

(5C-05) Microstructured lanthanide-doped polymer films for improved photonic management in luminescent solar concentrators

\*Sandra FH Correia<sup>1</sup>, Francisca V Silva<sup>2</sup>, Lianshe Fu<sup>1</sup>, Vitor Sencadas<sup>2</sup>, Rute AS Ferreira<sup>1</sup>

<sup>1</sup> Department of Physics and CICECO - Aveiro Institute of Materials, University of Aveiro (Portugal)

<sup>2</sup> Department of Materials and Ceramic Engineering and CICECO - Aveiro Institute of Materials, University of Aveiro (Portugal)

11:20 - 11:40

(5C-06) Strategies for Phosphor-in-glass Refractive Index Matching for Fully Transparent Luminescent Materials

Natalia Miniajluk-Gawel<sup>1</sup>, Radosław Lisiecki<sup>1</sup>, Karolina Szkaradek<sup>1</sup>, Nirajan Ojha<sup>2</sup>, Khaldoun Nasser<sup>2</sup>, Laetitia Petit<sup>2</sup>, \*Bartosz Bondzior<sup>1</sup>

<sup>1</sup> Institute of Low Temperature and Structure Research, Polish Academy of Sciences (Poland)

<sup>2</sup> Photonics Laboratory, Tampere University (Finland)

## ■ September 26 (Sat)

### Room D

Venue: Center bldg. West-wing Room #12

#### LED phosphor *Chairs: Yuuki Kitagawa*

09:20 - 09:40

(5D-01) Preparation of Cu(I)-Based Hybrid Scintillation Thin Films and Their Application in Smart X-ray Imaging

\*Shuai Zhang<sup>1</sup>

<sup>1</sup> South China University of Technology(China)

09:40 - 10:00

(5D-02) Enhanced luminescence in  $\text{Mg}_2\text{Lu}(\text{V,P})\text{O}_6:\text{Eu}^{3+}$  phosphor by  $\text{P}^{5+}$ -doping and its application in optical thermometry

\*Abinaya Mayavan<sup>1</sup>

<sup>1</sup> Zhejiang Normal University, China (China)

10:00 - 10:20

(5D-03) Luminescent properties of  $\text{Ba}_2\text{Al}_2\text{SiO}_7:\text{Ce}^{3+}$  phosphor: Synthesized by different routes

\*Tripti Richhariya<sup>1</sup>, Nameeta Brahme<sup>1</sup>

<sup>1</sup> SoS in Physics and Astrophysics, Pt. Ravishankar Shukla University(India)

#### Dosimeter *Chairs: Yuuki Kitagawa*

10:20 - 10:40

(5D-04) Ti-Doped Zirconia Synthesized via Diverse Routes : Comparative Study of the Theoretical, Structural and Luminescent Properties for Multiple Applications

\*Kanchan Tiwari<sup>1</sup>, Nameeta Brahme<sup>1</sup>, D.P. Bisen<sup>1</sup>, Akesh Kumar<sup>1</sup>

<sup>1</sup> Pandit Ravishankar Shukla University(India)

10:40 - 11:00

(5D-05) Electronic Structure, Judd-Ofelt Dynamics, and Stimulated Luminescence in  $\text{Dy}^{3+}$ -Doped  $\text{BaZrSi}_3\text{O}_9$  Phosphors

\*Akesh Kumar<sup>1</sup>, D.P. Bisen<sup>1</sup>, Kanchan Tiwari<sup>1</sup>, Chitrakant Belodhiya<sup>1</sup>, J. Aman Kunjam<sup>1</sup>, Nameeta Brahme<sup>1</sup>

<sup>1</sup> SoS in Physics and Astrophysics, Pandit Ravishankar Shukla University(India)

11:00 - 11:20

(5D-06) Enhancing OSL Intensity in Synthetic Quartz through Optimized Thermal Treatments

\*Yogesh Dattatray Kale<sup>1</sup>, Dr Trilok B Akhani<sup>1</sup>, Dr Yashesh H Gandhi<sup>2</sup>

<sup>1</sup> Department of Physics, Parul Institute of Applied Sciences, Parul University, Vadodara, Gujarat (India)

<sup>2</sup> Applied Physics Department, Faculty of Technology and Engineering, The M S University of Baroda, Vadodara, Gujarat (India)

11:40 - 12:00

(5D-07) Sensitivity Analysis of OSL Components in Synthetic Quartz and Their Correlation with High-Temperature TL Glow Peaks

\*Trilokkumar Bharatkumar Akhani<sup>1</sup>, YOGESH D KALE<sup>1</sup>, YASHESH H GANDHI<sup>2</sup>

<sup>1</sup> Department of Physics, Parul Institute of Applied Sciences, Parul University, Vadodara, Gujarat, 391760, India (India)

<sup>2</sup> Applied Physics Department, The M S University of Baroda, Gujarat, 39001, India(India)

## ■ September 26 (Sat)

### Room E

Venue: Base of ILAS bldg.

#### Bioimaging *Chairs: Andrea Pickel, Niko Hildebrandt*

10:40 - 11:00

(5E-01) From Surface Engineering to Bioimaging: Silica-Based Lanthanide Stain with Tunable Photophysics

\*Alessandra Garbosa Mutti<sup>1</sup>, João Antonio Oliveira Santos<sup>2</sup>, Felipe Silva Manrique Canisares<sup>3</sup>, Ana Maria Pires<sup>1,4</sup>, Sergio Antonio Marques Lima<sup>1,4</sup>

<sup>1</sup> FCT-UNESP(Brazil)

<sup>2</sup> IQ-UNESP(Brazil)

<sup>3</sup> IQ-USP(Brazil)

<sup>4</sup> IBILCE-UNESP(Brazil)

11:00 - 11:20

(5E-02) Achieving thermal tomography with lanthanide doped nanoparticles

\*Natalia Ochoa<sup>1</sup>, Chenxi Peng<sup>3</sup>, Guanying Chen<sup>2</sup>, Dirk H. Ortgies<sup>1</sup>, Xiaowang Liu<sup>3</sup>, Daniel Jaque<sup>1</sup>

<sup>1</sup> UNIVERSIDAD AUTÓNOMA DE MADRID(Spain)

<sup>2</sup> Harbin Institute of Technology(China)

<sup>3</sup> Northwestern Polytechnical University Xi'an(China)

11:20 - 11:40

(5E-03) Responsive Probes for Background-Free Luminescence Biosensing and Imaging

\*Run Zhang<sup>1,2</sup>

<sup>1</sup> Australian Institute for Bioengineering and Nanotechnology, The University of Queensland(Australia)

<sup>2</sup> Centre for Nutrition and Food Sciences, Queensland Alliance for Agriculture and Food Innovation (CNAFS, QAAFI), The University of Queensland(Australia)

11:40 - 12:00

(5E-04) Seeing the invisible: luminescent nanoprobe for tracking nano- and microplastics across biological systems

\*Tomasz Grzyb<sup>1</sup>, Joanna Musiał<sup>1</sup>, Klaudia Krysiak-Smulek<sup>1</sup>, Dominika Przybylska<sup>1</sup>, Adrian Drozdowski<sup>1</sup>, Zbigniew Hnatejko<sup>1</sup>, Anna Ekner-Grzyb<sup>2</sup>, Cátia Venâncio<sup>3</sup>, Isabel Lopes<sup>3</sup>, Wojciech Smulek<sup>4</sup>, Ewa Kaczorek<sup>4</sup>, František Štětina<sup>5</sup>, Hans H. Gorris<sup>5</sup>, Zdeněk Farka<sup>5</sup>

<sup>1</sup> Department of Rare Earths, Faculty of Chemistry, Adam Mickiewicz University, Poznań(Poland)

<sup>2</sup> Department of Cell Biology, Faculty of Biology, Adam Mickiewicz University, Poznań(Poland)

<sup>3</sup> Centre for Environmental and Marine Studies (CESAM) & Department of Biology, University of Aveiro(Portugal)

<sup>4</sup> Institute of Chemical Technology and Engineering, Faculty of Chemical Technology, Poznan University of Technology(Poland)

<sup>5</sup> Department of Biochemistry, Faculty of Science, Masaryk University(Czech Republic)

■ September 26 (Sat)

Saturday Afternoon Program

Venue: Lecture Hall A & B

|               |                               |
|---------------|-------------------------------|
| 13:00 - 13:40 | George Blasse Award Lecture 1 |
| 13:40 - 14:20 | George Blasse Award Lecture 2 |
| 14:20 - 14:40 | Coffee Break                  |
| 14:40 - 15:40 | ICL Prize Lecture             |
| 15:50 - 16:20 | Closing Ceremony              |