



# ICPP14

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# KYOTO

INTERNATIONAL CONFERENCE ON  
PORPHYRINS & PHTHALOCYANINES

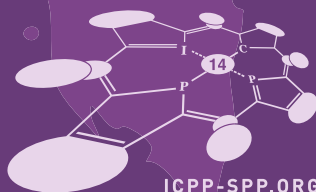
**28 JUNE - 3 JULY 2026**

KYOTO TERRSA CONFERENCE CENTER JAPAN

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**SCIENTIFIC PROGRAM**

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ICPP-SPP.ORG



### Synthesis (7)

#### **1. Emergence of novel fused and strained porphyrinoids: Synthesis and structures**

Yasuhide Inokuma, Jeyaraman Sankar & Miłosz Pawlicki

#### **2. Subphthalocyanine and related contracted porphyrinoids: Advances in their chemistry and applications**

M. Salomé Rodríguez-Morgade, Timothy Bender & Soji Shimizu

#### **3. Corroles**

Roberto Paolesse, Takayuki Tanaka, Daniel Gryko & Sara Nardis

#### **4. Carbaporphyrinoids with N-confusion and fusion**

Hiroyuki Furuta & Yongshu Xie

#### **5. Synthesis and properties of porphyrinoids**

Tomás Torres, Andrew Cammidge & Gemma de la Torre

#### **6. aza-BODIPYs and their analogs**

Victor Nemykin & Christopher Ziegler

#### **7. Functional porphyrinoids for health applications and sustainability**

Claude Gros, Mathias Senge & Kevin Smith

### Characterization (7)

#### **8. Exotic porphyrins and novel heteroaromatic macrocycles**

Hong Wang, Pradeepta Panda & Tomohiro Higashino

#### **9. NIR-responsive porphyrinoids**

Taniyuki Furuyama, Yoshihiro Matano & Harry Anderson

#### **10. Highly conjugated porphyrinoids**

Masayoshi Takase, Jishan Wu & Tetsuo Okujima

#### **11. Porphycenes**

Jacek Waluk, Arkadiusz Listkowski & Toshikazu Ono

#### **12. Aromaticity and antiaromaticity**

Hiroshi Shinokubo, Dongho Kim & Jonathan Sessler

#### **13. Chiral porphyrinoids and related systems**

Alessandro D'Urso & Manuela Stefanelli

#### **14. Advances in the chemistry of porphyrazines (azaporphyrins) and their analogues**

Pavel Stuzhin

### Materials (6)

#### **15. Porphyrinoids at interfaces**

Willi Auwärter, David Écija & Wolfgang Schöfberger

#### **16. Organic electronics and sensors**

Marcel Bouvet, Corrado Di Natale, Benoît Lessard & Hiroko Yamada

#### **17. Self-assembled systems and materials**

Giovanni Bottari, Athanassios Coutsouelos & David Gonzalez-Rodriguez

#### **18. Pyrrole-based $\pi$ -systems**

Hiromitsu Maeda & Jean Weiss

#### **19. Artificial photosynthetic systems**

Dirk Guldi, Angela Sastre-Santos & Francis D'Souza

#### **20. MOF and COF**

Shengqian Ma & Takashi Uemura

### Energy (6)

#### **21. Catalysis for sustainability**

Tadashi Ema, Xianhong Wang & Emma Gallo

#### **22. Solar cells and fuels**

Hiroshi Imahori & Fabrice Odobel

#### **23. Redox chemistry and electrochemistry of porphyrinoids and oligopyrroles**

Charles Devillers, Gabriel Canard & Masatoshi Ishida

#### **24. Photocatalysis**

Zeev Gross & Yusuke Kuramochi

#### **25. Spin transport and dynamics in molecular and nanoscale systems**

Michael Therien & Ryan Hadt

#### **26. Catalytic activation of CO<sub>2</sub>: From fuels to complex molecules**

Marc Robert, Mio Kondo & Shigeyuki Masaoka

### Biomedical (7)

#### **28. Activatable probes for cancer imaging and therapy**

Gang Zheng & Yasuteru Urano

#### **29. Health and sustainability**

Francesca Giuntini, Antonino Mazzaglia & Hiroaki Kitagishi

#### **30. Functional chromophores for sensing and imaging**

Veronika Novakova, Anzhela Galstyan & Jonathan Hill

#### **31. Development of advanced photosensitizers**

Pui-Chi Lo & Yutaka Amao

#### **32. Photoimmunotherapy**

Janusz Dabrowski & Tayyaba Hasan

#### **33. Porphyrinoids in photomedicine**

Fabienne Dumoulin & Takahiro Nomoto

### Biochemistry (6)

#### **34. Heme proteins and synthetic analogues**

John Dawson & Takashi Hayashi

#### **35. Catalysis in natural and biosynthetic heme proteins**

Anabella Ivancich, Giulietta Smulevich & Osami Shoji

#### **36. Heme sensors, regulations and trafficking**

Koichiro Ishimori & Emily Weinert

#### **37. Heme enzymes: Structure and function**

Shun Hirota, Denis Rousseau & Syun-Ru Yeh

#### **38. Chemistry and biology of corrinoids and related compounds**

Felix Zelder, Hisashi Shimakoshi & Dorota Gryko

#### **39. Chemistry and biology of natural porphyrinoid pigments**

Hitoshi Tamiaki & Bernhard Kräutler

### Theory (2)

#### **40. Optical spectroscopy and photochemistry**

Mikalai Kruk, Sergei Vinogradov, John Mack, Zhen Shen & Kazuyuki Ishii

#### **41. Theory and spectroscopy**

Martin Stillman and Nagao Kobayashi



# ICPP14 | K Y O T O



## Specialized Symposia Schedule : Oral Presentations

**SYNTHESIS****CHARACTERIZATION****MATERIALS****ENERGY****BIOCHEMISTRY****BIOMEDICAL****THEORY**

### Monday, 29 June

### Tuesday, 30 June

### Thursday, 2 July

### Friday, 3 July

FLOOR	ROOM	AM 11:00 - 13:00	PM 14:00 - 16:00	PM 16:30 - 18:30
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FLOOR	ROOM	AM 10:30 - 12:50	PM 14:00 - 16:00	PM 16:30 - 18:30
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FLOOR	ROOM	AM 10:30 - 12:50	PM 14:00 - 16:00	PM 16:30 - 18:30
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FLOOR	ROOM	AM 10:30 - 12:50	PM 14:00 - 16:00
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<b>3F</b>	Conference Room 2	34	34	35
	Large Conference Room A + B	Lunch Room 12:00 to 13:45	8	8
	Large Conference Room C	18	18	15
	Conference Room D	Lunch Room 12:00 to 13:45	19	41

	35	36	36
	12 10:30 to 11:50	Lunch Room 12:00 to 13:45	13
	15	20	20
	Lunch Room 12:00 to 13:45	24	24

	37	37	34
	10	11	14
	17	17	17 16:30 to 17:30
	40 10:30 to 11:30	Lunch Room 12:00 to 13:45	40
			42 17:30 to 18:30 contributed

	38 10:30 to 12:10	39 12:10 to 13:10	39
	14 10:30 to 11:30	9 11:30 to 12:30	9
	16	16	
	40	6	

<b>2F</b>	Seminar Rooms 1 + 2	Lunch Room 12:00 to 13:45	26	26
	Medium Conference Room	28 11:00 to 12:00	Lunch Room 12:15 to 13:45	28
			1	
	Rehearsal Room	Lunch Room 12:00 to 13:45		
	AV Training Room	Lunch Room 12:00 to 13:45		

	25 10:30 to 11:50	Lunch Room 12:00 to 13:45	25
			23
	33	33	33
	Lunch Room 12:00 to 13:45		
	Lunch Room 12:00 to 13:45		

	23 10:30 to 11:50	Lunch Room 12:00 to 13:45	21
			21
	29 10:30 to 11:50	Lunch Room 12:00 to 13:45	29
			30
	Lunch Room 12:00 to 13:45		
	Lunch Room 12:00 to 13:45		

	22 10:30 to 11:50	Lunch Room 12:00 to 13:45	22
	32	31 14:00 to 15:00	43 15:00 to 16:00 contributed
	Lunch Room 12:00 to 13:45		
	Lunch Room 12:00 to 13:45		

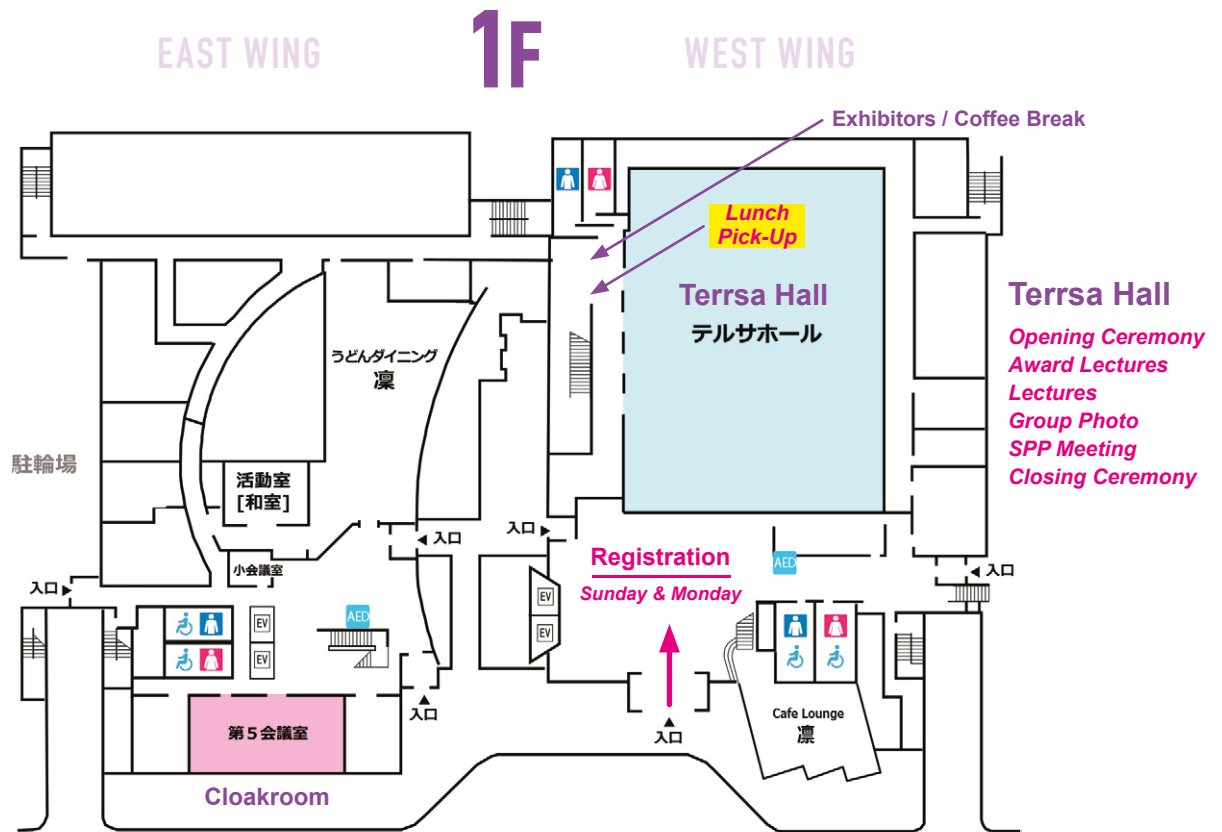
<b>1F</b>	Terra Hall	5	5	5
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	5	5 14:00 to 15:00	4 15:00 to 16:00	4
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	2	2	3
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	3 10:30 to 12:10	7 12:10 to 12:50	7
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# Conference Center Floor Plan



## Conference Center Floor Plan



## Specialized Symposia by Room

### 3F

Conference Room 2	34, 35, 36, 37, 38, 39
Large Conference Rooms A + B	8, 9, 10, 11, 12, 13, 14
Large Conference Room C	15, 16, 17, 18, 20, 42
Conference Room D	6, 19, 24, 40, 41

### 2F

Training Room	Posters
Conference Room 9	Posters
Seminar Rooms 1 + 2	21, 22, 23, 25, 26
Seminar Room 3	Posters
Medium Conference Room	1, 28, 29, 30, 31, 32, 33, 43

### 1F

Terra Hall	2, 3, 4, 5, 7
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## Sunday, 28 June

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### Conference Registration

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13:00 to 16:00 **Kyoto TERRSA Conference Center** (1.2 km south of Rihga Royal Hotel) - **Floor 1 - Main Lobby**  
[70 Higashikujo Shimotonoda-cho, Minami-ku, Kyoto, Japan](#) (within Kyoto Citizen's Amenity Plaza)

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### Welcome Reception - entry with conference badge only

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18:30 to 20:30 **RIHGA Royal Hotel Kyoto - Floor 2 - Shunju Banquet Hall**  
[1-Taimatsu-cho, Shiokoji-sagaru, HigashiHorikawa-dori, Shimogyo-ku, Kyoto, Japan, 600-8237](#)

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## Monday, 29 June

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### Conference Registration & ICPP Desk

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08:30 **Kyoto TERRSA Conference Center - Floor 1 - Main Lobby**

Tuesday to Friday **Kyoto TERRSA Conference Center - Floor 2 - Conference Room 10**

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### Opening Ceremony

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09:00 to 09:30 **Kyoto TERRSA Conference Center - Floor 1 - Terrsa Hall**

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## Wednesday, 1 July

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### Excursions - See next page

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### Gala Dinner - entry by ticket only

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19:00 to 22:30 **RIHGA Royal Hotel Kyoto - Floor 2 - Shunju Banquet Hall**

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## Friday, 3 July

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### SPP Meeting & Closing Ceremony

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16:15 to 17:15 **Kyoto TERRSA Conference Center - Floor 1 - Terrsa Hall**

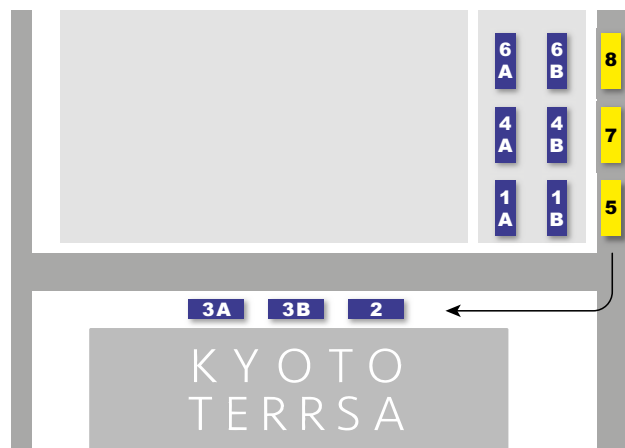
## Excursions

As usual, at every ICPP, we're pleased to include a midweek excursion with your registration. On Wednesday afternoon, July 1st, participants can explore stunning World Heritage sites or visit well-known industrial companies.

Spaces are limited and assigned based on your selection in the ICPP questionnaire. Your chosen excursion and coach number are indicated on a ticket in your registration pack, and your coach number is also on your conference badge. Please bring both to show the conductor that you're on the correct coach.

**After lunch**, participants on the **blue coaches will start boarding**. Those on coaches #5, #7, and #8 should wait inside the Terrsa building until coaches #3A, #3B, and #2 have left, and the yellow buses arrive at the front of the Terrsa entrance.

*Participation in the excursions is voluntary and at your own risk. The conference and local organizers are not responsible for accidents, injuries, losses, or inconveniences. Participants should ensure they have suitable travel or personal insurance, as needed.*



### Excursion 1 : Kinkaku-ji to Ryoan-ji [tinyurl.com/ICPP14-Excursion1](https://tinyurl.com/ICPP14-Excursion1)

- 12:30 After lunch, board your assigned coach on time at the Terrsa Conference Center parking lot.
- 12:45 Coach departure.
- 13:35 Arrive at **Kinkaku-ji temple (A)**.
- 13:50 Students in purple ICPP T-shirts at the entrance will provide you with an admission ticket to **visit the temple**. [www.shokoku-ji.jp/en/kinkakuji/](http://www.shokoku-ji.jp/en/kinkakuji/)
- 14:50 Return to the car-park to board your coach.
- 15:00 Coach departure. (If you miss the coach, it will wait for you at the Ryoan-ji temple - 15~20 min walk from Kinkaku-ji)
- 15:10 Arrive at **Ryoan-ji temple (B)**- students at the entrance will provide a ticket to visit the temple. [www.ryoanji.jp/smph/eng/](http://www.ryoanji.jp/smph/eng/)  
**Optional (not included) : Ninna-ji temple** - 15 min walk from Ryoan-ji temple. <https://ninnaji.jp/en/>
- 16:20 Return to the coach. (If you miss the coach, take the *JR West Bus* - 16:35, 16:55, 17:30, 18:00 - from *Ryoan-ji-mae* bus stop to *Kyoto Station*).
- 16:30 Coach departure.
- 17:20 Stop at *Rihga-Royal Hotel* then at *Kyoto station*



### Excursion 2 : Ginkaku-ji & Philosopher's Path [tinyurl.com/ICPP14-Excursion2](https://tinyurl.com/ICPP14-Excursion2)

- 12:30 After lunch, board your assigned coach on time in front of the Terrsa Conference Center.
- 12:45 Coach departure.
- 13:30 Arrive (A) at **Ginkaku-ji temple (B)**
- 13:45 Students in purple ICPP T-shirts at the entrance will provide you with an admission ticket to **visit the temple**. [www.shokoku-ji.jp/en/ginkakuji/](http://www.shokoku-ji.jp/en/ginkakuji/)
- 15:00 Walk 15 min. to **Hounen-in temple (C)**
- 15:15 Visiting **Hounen-in temple** (no ticket required).
- 15:45 Enjoy a scenic walk on the **Philosopher's Path (C-A)**
- 16:30 Take the city bus n° 105, 5 or 7 at the *Ginkakuji-michi* bus-stop (F), back to *Kyoto station*. (Tickets provided)
- 17:10 Stop at *Kyoto station*.

**Optional (not included): Anraku-ji (D)** - 20 min walk from Ginkaku-ji temple. [www.anrakuji-kyoto.com](http://www.anrakuji-kyoto.com)

**Optional (not included): Hakusason-so (E)**- next to Ginkaku-ji temple car-park. [www.hakusasonso.jp/english](http://www.hakusasonso.jp/english)

**Optional (not incl.): Daimonji mountain** - 40 min walk (one-way) from Ginkaku-ji temple. [insidekyoto.com/mt-daimonji-yama-hike-ginkaku-ji-temple](http://insidekyoto.com/mt-daimonji-yama-hike-ginkaku-ji-temple)

## Excursions



### Excursion 3 : Arashiyama Area [tinyurl.com/ICPP14-Excursion3](http://tinyurl.com/ICPP14-Excursion3)

- 12:30 After finishing lunch, board your assigned coach on time in front of the Terra Conference Center.  
 12:45 Coach departure.  
 13:30 Arrive (A) at **Tenryu-ji temple**. (B)  
 13:45 Students in purple ICPP T-shirts at the entrance will provide you with an admission ticket to **visit the temple**. [www.shokoku-ji.jp/en/ginkakuji/](http://www.shokoku-ji.jp/en/ginkakuji/)

14:00 Start with a visit inside the **Tenryu-ji temple buildings**, then a stroll through the gardens, exiting through the *North Gate* to reach the **Bamboo Forest**.

15:00 Walk along the **Bamboo Forest Path**. (C - E)

*Optional (not included)* : **Jojakko-ji temple** (D) - 10 min walk from the forest path.

16:00 Head to the **observation deck**, (F) then onto the **Katsura river** to see the **Togetsu-kyo bridge**. (H)

16:30 Walk through the **shopping street**, onto the *JR Saga-Arashiyama station* (I) - take the JR train to *Kyoto station*. (Tickets provided)

16:45 Stop at *Kyoto station*.



### Excursion 4 : Fushimi-inari [tinyurl.com/ICPP14-Excursion4](http://tinyurl.com/ICPP14-Excursion4)

- 12:30 After lunch, board your assigned coach on time at the Terra Conference Center parking lot.  
 12:45 Coach departure.  
 13:30 Arrive at **Fushimi-inari** parking.  
 13:45 Walking visit of **Fushimi-inari**. <https://inari.jp/en/>  
 Choose your preferred walk from two **energetic** and two **relaxed** walks :  
<https://inari-kyoto.com/modelcourse>

16:30 Head to *JR Inari station* to take the JR train to *Kyoto station*. (Tickets provided)

16:45 Stop at *Kyoto station*.



### Excursion 5 : Uji-Byodo-in temple [tinyurl.com/ICPP14-Excursion5](http://tinyurl.com/ICPP14-Excursion5)

- 12:30 After finishing lunch, please wait inside the Terra Conference Center Main Lobby  
 12:45 Once the coach is ready, you will be guided to the boarding area.  
 13:40 Arrive at **Uji-Byodo-in temple** (A)  
 13:50 Students in purple ICPP T-shirts at the entrance will provide you with an admission ticket to visit the **gardens** and the **museum**

*Optional (not included)* : To visit the interior of the **Phoenix Hall**, a reservation and separate ticket purchase (300 yen) is required upon entering the temple grounds. Please first secure your ticket before exploring the gardens.

14:50 Cross the **Asagiri-bashi Bridge**, visit the **Uji Shrine** (B) <http://uji-jinja.com/guide/index.html> and **Uji-gami Shrine** (C) <https://www.ujikamijinja.jp>. *Optional* : **Observation Deck** (D) then finish the walk *via* the **Matcha-shops** (E) onto *JR Uji Station* (F).

16:30 At the *JR Uji station*, take the JR train to *Kyoto station*. (Tickets provided)

17:00 Stop at *Kyoto station*.

## Excursions



### Excursion 6 : **Takao Area** <https://tinyurl.com/ICPP14-Excursion6>

- 12:30 After lunch, board your assigned coach on time at the Terrsa Conference Center parking lot.
- 12:45 Coach departure.
- 13:45 Arrive at **Kosan-ji temple** parking.
- Head toward **Jingo-ji Temple**. (B)
  - Walk along the road for a few minutes, then take the path down to the **pedestrian walkway**.
  - **CAUTION**: Be aware of traffic and the transition to the walkway.
- 14:15 Visit the **Jingo-ji temple**. (B) Students in purple ICPP T-shirts at the entrance will provide you with an admission ticket to **visit the temple**. [www.discoverkyoto.com/places-go/jingo-ji/](http://www.discoverkyoto.com/places-go/jingo-ji/)
- A **scenic viewpoint** can be found at the back of the temple grounds.
  - Try **Kawarake-nage**, a traditional Japanese practice in which you throw unglazed clay discs into the valley. It is believed to ward off bad luck and bring good fortune.
- 15:15 **Optional (not included)** : Head toward **Saimyo-ji temple**. (C) Visiting the **Saimyo-ji temple** requires a cash admission fee.
- 16:00 Head back to the **Kosan-ji temple** parking (E). **Optional (not included)** : Visit the **Kosan-ji temple** (D) (cash admission fee).
- 16:20 Board the coach promptly.
- 16:30 Coach departure. (If you miss the coach, take the *JR West Bus* to *Kyoto Station* from the following stops :  
*Togano-o* : 17:14 / 17:59, *Makino-o* : 17:15 / 18:00, *Takao* : 17:16 / 18:01
- 17:20 Stop at *Rihga-Royal Hotel* then at *Kyoto station*



### Excursion 7 : **HORIBA Tour (via Toji-temple)**

- 12:30 After finishing lunch, please wait inside the Terrsa Conference Center Main Lobby
- 12:45 Once the coach is ready, you will be guided to the boarding area.
- 13:00 Coach departure.
- 13:15 Arrive at **Toji-temple** parking.
- 13:20 Students in purple ICPP T-shirts at the entrance will provide you with an admission ticket to **visit the Toji-temple**. <https://toji.or.jp/en/>
- 14:10 Board the coach promptly
- 14:15 Coach departure.
- 14:30 Visiting tour of **HORIBA**
- 16:45 Coach departure from HORIBA
- 17:00 Stop at *Rihga-Royal Hotel* then at *Kyoto station*



### Excursion 8 : **SHIMADZU Tour**

- 12:30 After finishing lunch, please wait inside the Terrsa Conference Center Main Lobby
- 12:45 Once the coach is ready, you will be guided to the boarding area.
- 13:00 Coach departure.
- 13:30 Visiting tour of **SHIMADZU**
- 16:00 Coach departure from **SHIMADZU**
- 16:30 Stop at *Rihga-Royal Hotel* then at *Kyoto station*



This program is supported by a subsidy funded by the accommodation tax from **Kyoto City** and the **Kyoto Convention & Visitors Bureau** supported by **Kyoto Prefecture**.

This program is supported by **The Kyoto University Foundation**.

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SPP Office | ICMUB | Université Bourgogne Franche Comté  
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# ICPP14 | K Y O T O

## 28 JUNE - 3 JULY 2026

### Conference Scope

All aspects of porphyrins, phthalocyanines, and related macrocycles will be covered through invited lectures, oral presentations, and poster sessions over the full five-day meeting. Four scientists will be honored with Lifetime Achievement Awards in 2026, and four Young Investigator Awards will also be presented. All awards will include featured lectures by the recipients.

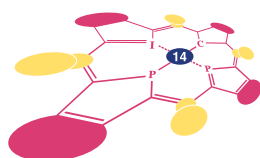
### Local Organizing Committee

**Hiroshi Imahori** - Host and Chairman - *Kyoto University, Japan*  
**Atsuhiko Osuka** - Honorary Chair - *Kyoto University, Japan*  
**Shunichi Fukuzumi** - Honorary Chair - *Osaka University, Japan*

**Hiroko Yamada** - Vice-chair - *Kyoto University, Japan*  
**Takashi Hayashi** - Vice-chair - *Osaka University, Japan*  
**Hiroshi Shinokubo** - Vice-chair - *Nagoya University, Japan*

**Tomohiro Higashino** - *Kyoto University, Japan*  
**Midori Akiyama** - *RIKEN, Japan*  
**Shun Hirota** - *NAIST, Japan*  
**Mitsuaki Yamauchi** - *Kyoto University, Japan*  
**Hiromitsu Maeda** - *Ritsumeikan University, Japan*  
**Soji Shimizu** - *Kyushu University, Japan*  
**Hisashi Shimakoshi** - *Kyushu University, Japan*  
**Yoshihiro Matano** - *Niigata University, Japan*  
**Masayoshi Takase** - *Ehime University, Japan*

**Tetsuo Okujima** - *Ehime University, Japan*  
**Taniyuki Furuyama** - *Kanazawa University, Japan*  
**Yasuhide Inokuma** - *Hokkaido University, Japan*  
**Masatoshi Ishida** - *Tokyo Metropolitan University, Japan*  
**Kazuyuki Ishii** - *University of Tokyo, Japan*  
**Tadashi Ema** - *Okayama University, Japan*  
**Takayuki Tanaka** - *Kyoto University, Japan*  
**W. Ryan Osterloh** - *Kyoto University, Japan*



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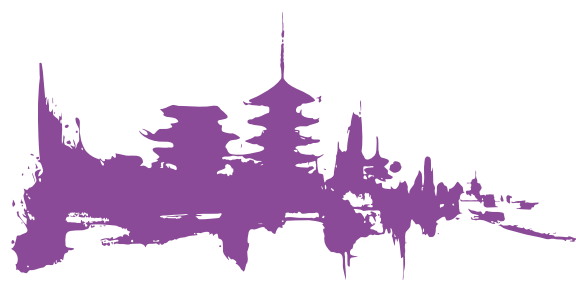
Society of Porphyrins and Phthalocyanines (SPP)

**Karl M. Kadish** - President SPP - *Houston TX, USA* - [icpp@uh.edu](mailto:icpp@uh.edu)  
**Francis D'Souza** - Vice President SPP - *Denton TX, USA* - [francis.dsouza@unt.edu](mailto:francis.dsouza@unt.edu)  
**Matthew Padgett** - General Secretary SPP - *Dijon, France* - [icpp@spp-jpp.org](mailto:icpp@spp-jpp.org)

ICPP14 website : [www.icpp-spp.org](http://www.icpp-spp.org)

SPP website : [www.spp-jpp.org](http://www.spp-jpp.org)





# ICPP14 | K Y O T O

## 28 JUNE - 3 JULY 2026

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## Major Sponsors and Exhibitors

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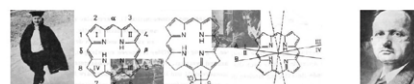
## Lifetime Achievement Awards

Hans-Fischer-Gesellschaft

PorphyChem

Sessler Family Charitable Trust

University of Rome Tor Vergata



Hans-Fischer-Gesellschaft



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## SPP-JPP Young Investigator Awards

Society of Porphyrins & Phthalocyanines (SPP)

World Scientific Publishing Company (WSPC)



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## Barry Lever Young Investigator Award in the Field of Physical Inorganic Chemistry

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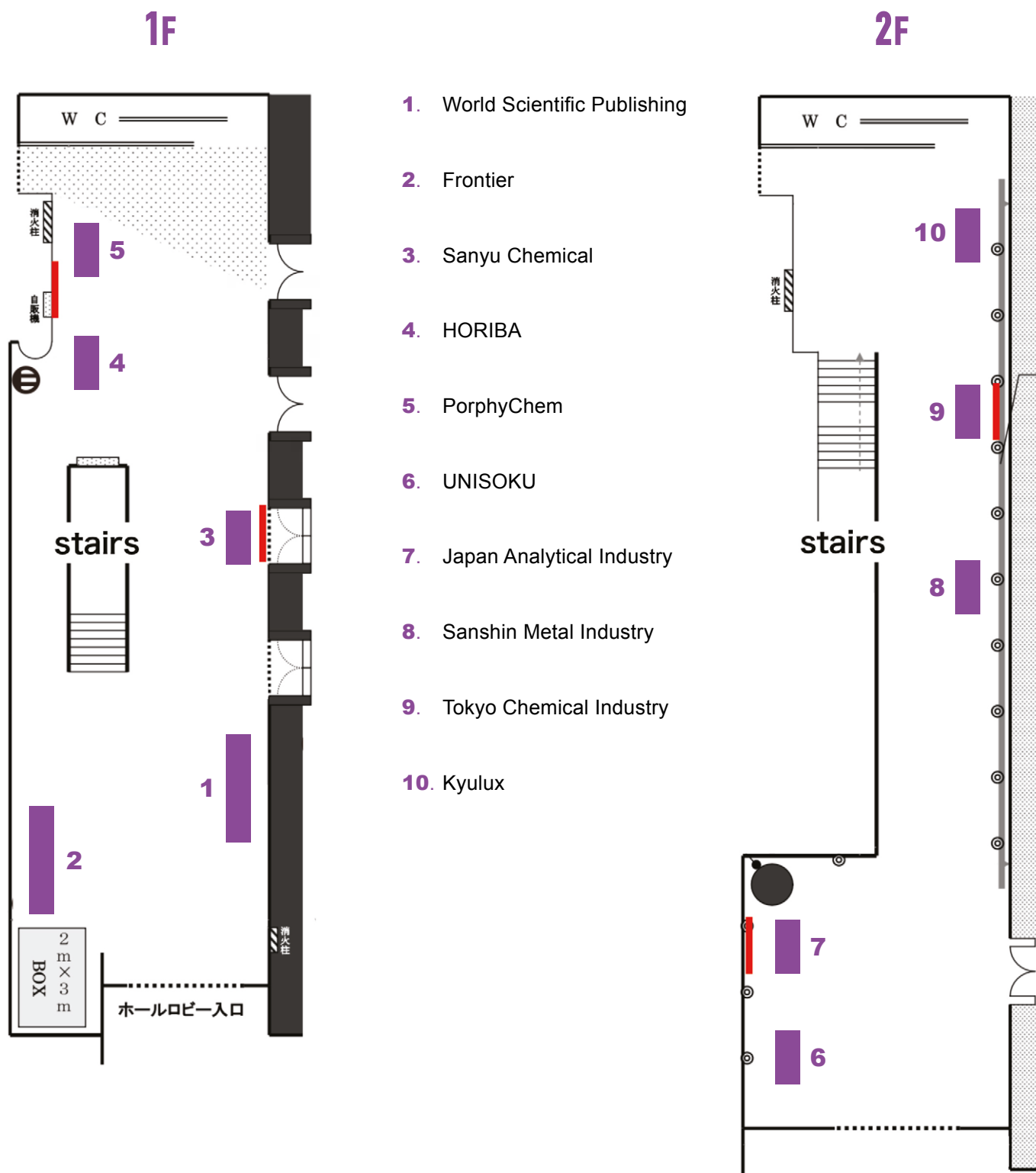
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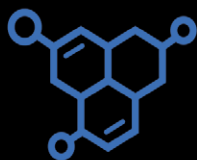
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Phone : (81)-72-767-7517

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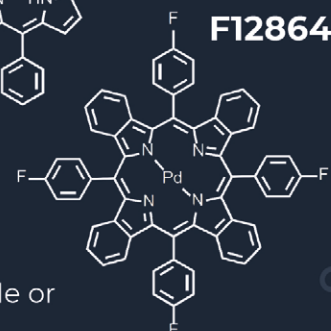
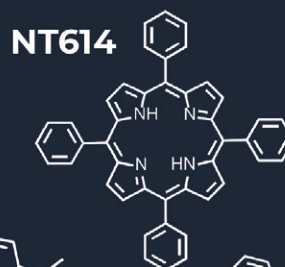
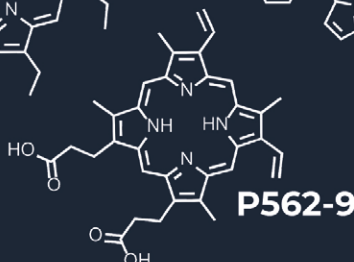
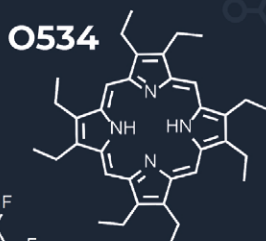
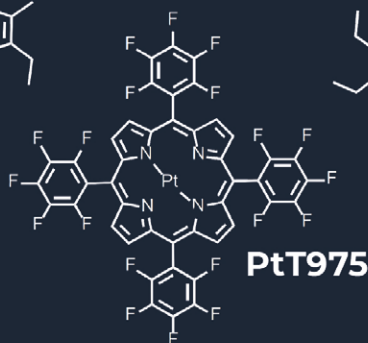
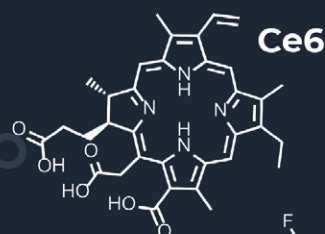
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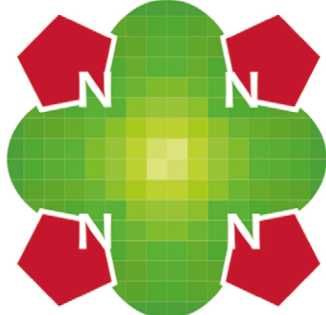


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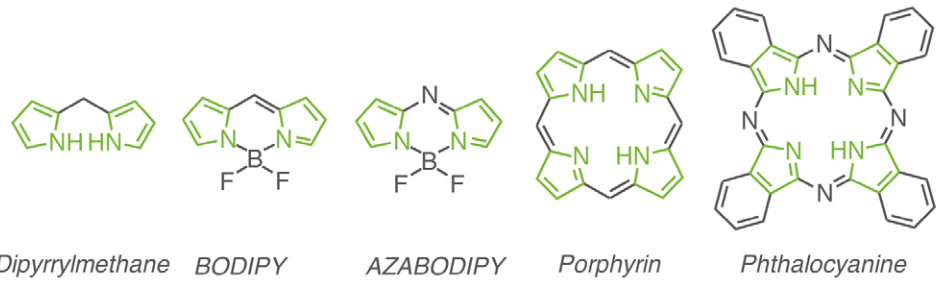
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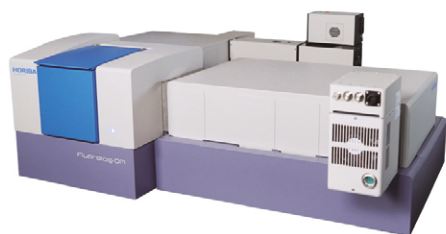
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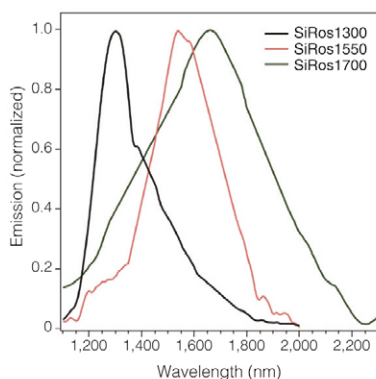
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## Analytical Solution for Photochemistry

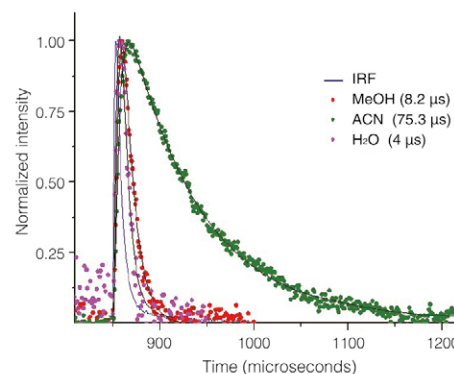
### NIR Emission Spectra and Decays



Spectrofluorometer  
**Fluorolog-QM**



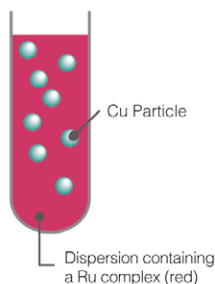
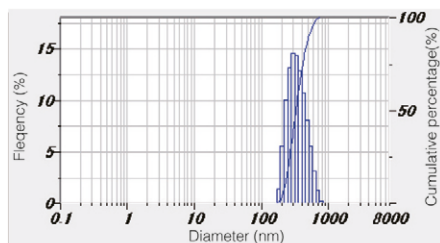
NIR emission spectra of organic dyes



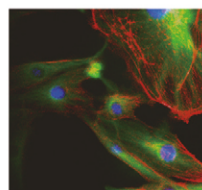
Singlet oxygen phosphorescence decays

- High signal-to-noise (S/N) ratio and high wavelength resolution
- Wide emission wavelength range: 190–5500 nm
- Double-grating monochromator design to minimize stray light
- Expandable configuration with optional accessories (e.g., fluorescence lifetime, phosphorescence, fluorescence quantum yield, polarization, and temperature control)

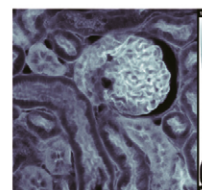
### Complex Particle Analysis



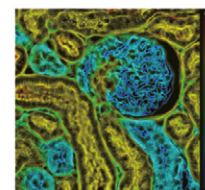
### Fluorescence Lifetime Imaging Microscopy



BPAE cells  
(Intensity images)



Mouse kidney  
FL intensity



Mouse kidney  
FL lifetime

\* This measurement was conducted by the Maeda Laboratory, Tokyo Institute of Technology.

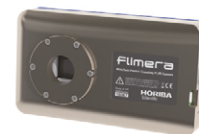
#### Measurement of copper colloidal particles in a dispersion containing a ruthenium complex



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**MALDI-8020**  
Product

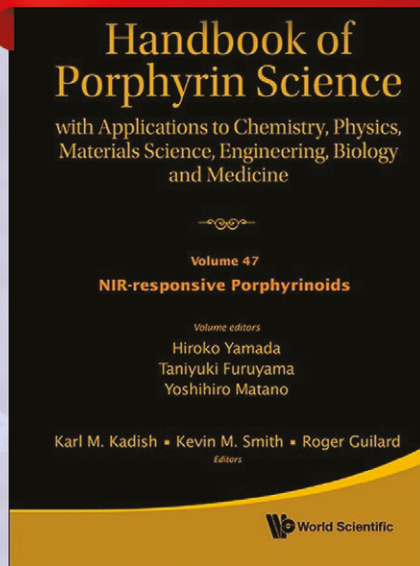


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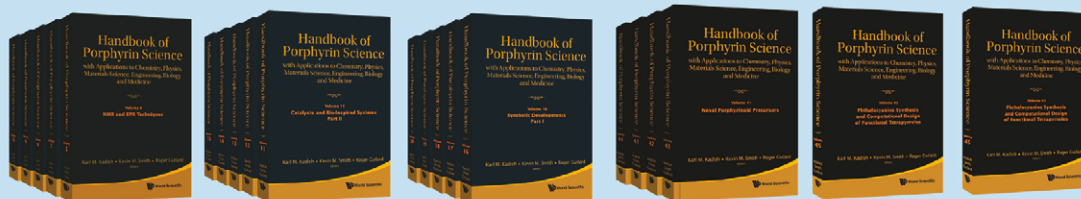
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# Oral Presentations

# Monday, 29 June - Morning

## Award Lecture

Floor 1 : Terrsa Hall



Hans-Fischer Gesellschaft

09:30 to 10:30

**Hans Fischer Career Award** for Lifetime Achievements in the field of Porphyrin Chemistry Lecture

Introduced by Karl M. Kadish

**Francis D'Souza** (University of North Texas, Denton, USA)

Bio-inspired Supramolecular Electron and Energy Transfer: Design Perceptions for Producing High-Potential, Long-Lived Charge Separated States

10:30 to 11:00

Coffee Break

## 5. Synthesis and properties of porphyrinoids

Floor 1 : Terrsa Hall



Chaired by Gema de la Torre, Andrew Cammidge & Tomás Torres

11:00 to 11:40 Invited Lecture

**Takuzo Aida** (The University of Tokyo, Tokyo, Japan)

Supramolecular and Materials Sciences with Porphyrins and Phthalocyanines

11:40 to 12:00 Invited Lecture

**Ángela Sastre Santos** (Universidad Miguel Hernández, Elche, Spain), Lydia Ferrer, Adrián Hernández, Desiré Molina, Javier Ortiz, Jose Garcés-Garcés, Jorge Follana-Berná, Fernando Fernández-Lázaro

Phthalocyanine-Based Molecular Materials: from Symmetry Breaking to Hole Transporting Agents

12:00 to 12:20 Invited Lecture

**Janarthanan Jayawickramarajah** (Southern Methodist Univ. Dallas, USA), Soumen Pradhan, Aunindya Jyoti

Augmenting DNA Nanotechnology using Synthetic Macrocycles

12:20 to 12:40 Invited Lecture

**Yulia G. Gorbunova** (Frumkin Institute of Physical Chemistry and Electrochemistry RAS, Moscow, Russia), Dmitry A. Bunin, Alexander G. Martynov, Aslan Yu. Tsivadze

Self-Assembling of Cationic Phthalocyanines: from Type II to Type I Photodynamic Therapy

12:40 to 13:00 Invited Lecture

**Tomás Torres** (Autonoma University of Madrid, Madrid, Spain), Jorge Labella, Elisa López-Serrano, Marta Gómez-Gómez, Juan Laforga-Martín, Jorge Labrador-Santiago, Daniel Holgado

Subphthalocyanines: Nonplanar Aromatic Chiral Porphyrinoids

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## 18. Pyrrole-based $\pi$ -systems

Floor 3 : Large Conference Room C

---

Chaired by *Hirimitsu Maeda & Jean Weiss*

11:00 to 11:20 *Invited Lecture*

**Stephane Campidelli** (*CEA Paris-Saclay, Gif sur Yvette, France*), Joffrey Pijeat, Karl-Heinz Ernst, Milosł Baljuzović

Synthesis of Planar and Curved  $\pi$ -Extended Anthracenyl Porphyrins by On-Surface Cyclodehydrogenation

11:20 to 11:40 *Invited Lecture*

**Ryohei Yamakado** (*Yamagata University, Yonezawa, Japan*)

Mild Construction of Carbonylated Indazole Frameworks for Functional Molecular Design

11:40 to 12:00 *Invited Lecture*

**Hiroki Horita** (*Ritsumeikan University, Kusatsu, Japan*), Hiroki Okano, Yota Kawai, Hirimitsu Maeda  
Pyrrole-based anion-responsive macrocycles

12:00 to 12:20 *Invited Lecture*

**Tatsuki Morimoto** (*Tokyo University of Technology, Tokyo, Japan*)

Anion-Accelerated Photocatalytic Reduction of Carbon Dioxide Using Pyrrole-Based Photosensitizers

12:20 to 12:40 *Invited Lecture*

**Toshikazu Ono** (*Graduate School of Engineering, Kyushu University, Fukuoka, Japan*)

Al(III)-based Dinuclear Triple-Stranded Helicates for Diverse Photofunctions

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## 28. Activatable probes for cancer imaging and therapy

Floor 2 : Medium Conference Room

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Chaired by *Chaired by Yasuteru Urano & Gang Zheng*

11:00 to 11:20 *Invited Lecture*

**Andrew Beharry** (*University of Toronto Mississauga, Mississauga, Canada*), Ivonne Rebeca Lopez-Miranda  
Photoactivatable  $\beta$ -Lapachone's for Targeted Cancer Therapy

11:20 to 11:40 *Invited Lecture*

**Wei Deng** (*University of Technology Sydney, Ultimo, Australia*), Rui Sang

Radiation-activated photodynamic therapy for rectal cancer treatment

11:40 to 12:00 *Invited Lecture*

**Cristina Kurachi** (*São Carlos Institute of Physics/University of São Paulo, São Carlos, Brazil*), Leticia Martinelli, Layla Pires, Gang Zheng, Brian Wilson

Photothermal therapy with Nano-dICG and the role of immune response at murine melanoma model

*...continued after lunch*

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**34. Heme proteins and synthetic analogues**Floor 3 : Conference Room 2

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*Chaired by Chaired by John Dawson & Takashi Hayashi**11:00 to 11:20 Invited Lecture***David Goldberg** (*Johns Hopkins University, Baltimore, USA*)

Reactivity of High-Valent Iron Porphyrinoid Complexes

*11:20 to 11:40 Invited Lecture***Yuma Morimoto** (*Institute of Science Tokyo, Tokyo, Japan*)Modulation of Hydrogen Abstraction Reactivity of a Compound I Model Complex by Axial Ligand  $\pi$ -Donation*11:40 to 12:00 Invited Lecture***Gayan Wijeratne** (*The University of Alabama, Tuscaloosa, USA*), Shanuk Rajapakse, Dhilanka Udukalage, Steven Zheng

Modeling Heme Peroxo Chemistries that Drive Biologically and Synthetically Crucial Transformations

*12:00 to 12:20 Invited Lecture***Qiyue Mao** (*Doshisha University, Kyoto-fu, Japan*), Hiroaki Kitagishi

A fire toxic gases injectable antidote composed of synthetic porphyrins

*12:20 to 12:40 Invited Lecture***Rudi Fasan** (*The University of Texas at Dallas, Richardson, USA*), Satyajit Roy, Yining Wang, Mary Siriboe, Alistair Sterling, Yong Zhang

Stereoselective carbene transfer reactions with pyridotriazoles catalyzed by engineered hemoproteins

## Monday, 29 June - Afternoon

### 1. Emergence of novel fused and strained porphyrinoids: Synthesis and structures

Floor 2 : Medium Conference Room

*Chaired by Yasuhide Inokuma, Miłosz Pawlicki & Jeyaraman Sankar*

*16:30 to 16:50 Invited Lecture*

**Takayuki Tanaka** (*Kyoto University, Kyoto, Japan*), Yoh Kumagai, Yusuke Matsuo, Shu Seki  
Aza[n]circulenes: Novel Pyrrole-fused Polycycles

*16:50 to 17:10 Invited Lecture*

**Sung Kuk Kim** (*Gyeongsang National University, Jinju-si, Korea*)  
Calixpyrrole-Based Ion Pair Receptors for the Extraction of Lithium and Sodium Salts

*17:10 to 17:30 Invited Lecture*

**Shingo Ito** (*Nanyang Technological University, Singapore, Singapore*)  
Azananographenes with Heptagonal or Octagonal Rings

*17:30 to 17:50 Invited Lecture*

**Ewa Pacholska-Dudziak** (*Faculty of Chemistry, University of Wrocław, Wrocław, Poland*), Paulina Krzyszowska, Emilia Ganczar  
Porphyrin—ruthenium cluster hybrids

*17:50 to 18:10 Invited Lecture*

**Masaaki Suzuki** (*Graduate School of Natural Science and Technology, Shimane University, Matsue, Japan*), Yuzuki Tashiro  
Synthesis of *meso*-Spiroadamantyl-Fused Calix[4]pyrroles and Derivatization of Calix[4]Pyrroles to Calix[4]phyrins

## 5. Synthesis and properties of porphyrinoids

Floor 1 : Terrsa Hall



Chaired by *Chaired by Gema de la Torre, Andrew Cammidge & Tomás Torres*

14:00 to 14:20 *Invited Lecture*

**Hiroyuki Furuta** (*Department of Chemistry, College of Sciences, Shanghai University, Shanghai, China*)

Electronic and magnetic interactions between N-confused porphyrin dimers

14:20 to 14:40 *Invited Lecture*

**Mine Ince** (*Tarsus University, Mersin, Turkey*), Perihan Kübra Demircioglu, Murat Ebic, Sifa Dogan, Seckin Akin

Multifunctional Phthalocyanine-Based Hole Transport and Interfacial Passivation Materials for Perovskite Solar Cells

14:40 to 15:00 *Invited Lecture*

**Jorge Labella** (*Kyoto University, Kyoto, Japan*), Marta Gómez-Gómez, Tomás Torres

Bowl-to-bowl inversion in Subphthalocyanines

15:00 to 15:20 *Invited Lecture*

**Holger Helten** (*Julius-Maximilians-Universität Würzburg, Institute of Inorganic Chemistry and Institute for Sustainable Chemistry & Catalysis with Boron (ICB), Würzburg, Germany*)

Boron-Doped Porphyrinoids: Combining Lewis Acidity with Redox-Switchable Aromaticity

15:20 to 15:40 *Invited Lecture*

**Muthumuni Managa** (*University of South Africa (UNISA), Florida, South Africa*), Mbalenhle K. Nhlabathi-Chidi, Knowledge S Ndlovu, Malomane Nonkululeko

Photodynamic activity of novel porphyrin conjugates against bacteria in water

15:40 to 16:00 *Invited Lecture*

**Umit Isci** (*Marmara University, Istanbul, Turkey*)

N-bridged dimeric porphyrinoids

16:00 to 16:30

Coffee Break

16:30 to 16:50 *Invited Lecture*

**Roberto Paolesse** (*University of Rome Tor Vergata, Rome, Italy*), Giuseppe Pomarico, Martina Marsotto, Sara Nardis, Francesco Pizzoli, Frank R. Fronczek, Kevin M. Smith

$\beta$ -Alkyl-oxocorroles: novel members of the corrinoid family

16:50 to 17:10 *Invited Lecture*

**Pui Chi Gigi Lo** (*City University of Hong Kong, Hong Kong, China*)

Development of Novel Photosensitizers for Inducing Immunogenic Cell Death in Photodynamic Therapy

17:10 to 17:30 *Invited Lecture*

**Sergiu Gorun** (*Seton Hall University, South Orange, USA*), Marius Pelmus, Alexander Fadeev  
Functionalized and Non-functionalized Fluorophthalocyanines: Electronic and Symmetry Effects on Reactivity and Surface Anchoring

17:30 to 17:50 *Invited Lecture*

**Athanasios G. Coutsolelos** (*Department of Chemistry, University of Crete, Heraklion, Greece*), Emmanuel Stratakis  
The pigments of life: A continuous source of inspiration for new materials and applications

17:50 to 18:10 *Invited Lecture*

**David Sánchez-García** (*IQS-URL, Barcelona, Spain*), Iris Pontón, Sandra Núñez, Cristina Díaz-Perlas, Benjamí Oller-Salvia, Carlos Semino  
CD47 peptide-albumin cloaked mesoporous silica nanoparticles for enhanced macrophage evasion and synergistic chemo-photodynamic therapy

18:10 to 18:30 *Invited Lecture*

**Gloria Zanotti** (*Istituto di Struttura della Materia (ISM), Consiglio Nazionale delle Ricerche (CNR), Montelibretti (Rm), Italy*)  
Greener Phthalocyanines: From Sustainable Synthetic Design to Functional Interfaces and Devices

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## 8. Exotic porphyrins and novel heteroaromatic macrocycles

Floor 3 : Large Conference Room A + B

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Chaired by *Chaired by Tomohiro Higashino, Pradeepta Panda & Hong Wang*

14:00 to 14:20 *Invited Lecture*

**Christian Brückner** (*Department of Chemistry, University of Connecticut, Storrs, USA*)  
Converting porphyrins into exotic porphyrinoids

14:20 to 14:40

**Karolina Hurej** (*University of Wroclaw, Wroclaw, Poland*), Paulina Krzyszowska, Michal J. Bialek, Lechoslaw Latos-Grazynski  
The unusual chemistry of pyriporphyrins - from controlled ring inversion to pyridine ring contraction

14:40 to 15:00 *Invited Lecture*

**Jonathan Sessler** (*The University of Texas at Austin, Austin, USA*)  
Proton-coupled Aromaticity Switching

15:00 to 15:20 *Invited Lecture*

**Woo-Dong Jang** (*Yonsei University, Seoul, Korea*)  
Functional applications of triazole-bearing porphyrin derivatives

15:20 to 15:40 *Invited Lecture*

**Norbert Jux** (*Friedrich-Alexander-Universität Erlangen-Nürnberg, Erlangen, Germany*), Christoph Oleszak  
Fusing porphyrins to PAHs

15:40 to 16:00 *Invited Lecture*

**John Mack** (*Tebello Nyokong Institute for Nanotechnology Innovation, Rhodes University, Makhanda, South Africa*), Rodah Soy, Gugu Kubheka, Nthabeleng Molupe, Godfred Sebiawu, Mahlatse Ledwaba, Temlandvo Magwaza, Kaisano Tauyakhale, Vicky Laure Kembou, Pertunia Macigane, Zine Gwaji, Liyema Makeleni, Shakhola Sekeleme, Nolwazi Zitha, Tebello Nyokong

*Meso*-group Functionalization and Nanoparticle Conjugation of Porphyrinoid Singlet Oxygen Photosensitizer Dyes for Biomedical Applications

16:00 to 16:30

Coffee Break

16:30 to 16:50 *Invited Lecture*

**Milosz Pawlicki** (*Jagiellonian University, Kraków, Poland*)  
 $\pi$ -Delocalisation in 2D and 3D Conjugated Skeletons

16:50 to 17:10 *Invited Lecture*

**Muniappan Sankar** (*Indian Institute of Technology Roorkee, Roorkee, India*)  
Synthesis of  $\pi$ -Extended Porphyrins and Their Applications in Catalysis, Nonlinear Optics, Solar Cells and Sensing

17:10 to 17:30 *Invited Lecture*

**Jonathan Hill** (*National Institute for Materials Science, Tsukuba, Japan*)  
Self-assembled Porphyrins for Advanced Applications

17:30 to 17:50 *Invited Lecture*

**Masayoshi Takase** (*Ehime University, Matsuyama, Japan*)  
 $\pi$ -Dimer of an Antiaromatic HomoHPHAC Monocation

17:50 to 18:10 *Invited Lecture*

**Charles Devillers** (*ICMUB, Université Bourgogne Europe, Dijon, France*), Nesrine Amiri, Amelle Mankou-Makaya, H el ene Cattetey  
Unusual  $\beta$ -Bromination of the *meso*-Free 2,7,12,17-Tetra-*tert*-butylporphyrin. Thiopyridinyl Functionalization of the bis- $\beta$ -Brominated porphyrin for the synthesis of C<sub>*meso*</sub>-N Fused Porphyrins

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## 15. Porphyrinoids at interfaces

Floor 3 : Large Conference Room C

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*Chaired by* *Chaired by* Wilhelm Auwärter, David Écija & Wolfgang Schöfberger

16:30 to 16:50 *Invited Lecture*

**Michael Gottfried** (*University of Marburg, Marburg, Germany*)

On-Surface Chemistry of Porphyrins, Corroles, and Phthalocyanines

16:50 to 17:10 *Invited Lecture*

**Shigeki Kawai** (*National Institute for Materials Science, Tsukuba, Japan*)

On-Surface Syntheses of Extended Porphyrins via Cyclodehydrogenation and Homocoupling of Trifluoromethyl groups

17:10 to 17:30 *Invited Lecture*

**José Ignacio Urgel** (*IMDEA Nanoscience, Madrid, Spain*)

On-Surface Synthesis of Carbahemiporphyrazine-Based Polymers

17:30 to 17:50 *Invited Lecture*

**David Ecija** (*IMDEA Nanociencia, Madrid, Spain*)

Coordinative Self-assembly of  $\pi$ -electron magnetic Porphyrins

17:50 to 18:10

**Aurelio Gallardo** (*IMDEA Nanociencia, Madrid, Spain*)

Porphyrin-based Nanostructures characterized by means of computational simulations.

18:10 to 18:20 *Invited Lecture*

**Willi Auwärter** (*Technical University of Munich, Garching, Germany*)

On-Surface Reactions for Chain-Like Porphyrin Architectures

18:20 to 18:30

**Philani Mashazi** (*Rhodes University, Makhanda, South Africa*), Teboho Mpakanyane, Lunathi Ncwane, Tebello Nyokong

Nanomaterial-porphyrinoid composites as excellent electrochemical sensors

## 18. Pyrrole-based $\pi$ -systems

Floor 3 : Large Conference Room C

*Chaired by Hironobu Maeda & Jean Weiss*

*14:00 to 14:20 Invited Lecture*

**Olivier Siri** (*Aix-Marseille University, Marseille, France*)

Dipyrromethene as ancillary ligand in coordination chemistry

*14:20 to 14:40 Invited Lecture*

**Hideaki Takano** (*Nagoya University, Nagoya, Japan*)

Synthesis and Properties of [3]CycloBODIPY: A Highly Strained Pyrrole-Based Macrocyclic  $\pi$ -System

*14:40 to 15:00 Invited Lecture*

**Eri Sakuda** (*Nagasaki University, Nagasaki, Japan*)

Towards Near-Infrared Luminescence via Charge-Transfer Design in Complexes

*15:00 to 15:20 Invited Lecture*

**Jennifer Wytko** (*Institut de Chimie de Strasbourg, Strasbourg, France*), Jean Weiss, Léa Depret

Multi-metallic complexes and assemblies built from a strapped-porphyrin

*15:20 to 15:40 Invited Lecture*

**Tomoya Ishizuka** (*Department of Chemistry, Faculty of Pure and Applied Sciences, University of Tsukuba, Tsukuba, Japan*), Yuma Obata, Risa Nishida, Takahiko Kojima

Proton-Coupled Electron-Transfer Reduction of a Quadruply-Fused Porphyrin Derivative Possessing Imino-Nitrogens at the Periphery

*15:40 to 16:00 Invited Lecture*

**Daniel Leznoff** (*Simon Fraser University, Burnaby, Canada*)

Early transition-metal and f-block phthalocyanines: From colour tuning to catalysis

*16:00 to 16:30*

Coffee Break

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## 19. Artificial photosynthetic systems

Floor 3 : Conference Room D

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*Chaired by Francis D'Souza, Dirk Guldi & Ángela Sastre-Santos*

*14:00 to 14:20 Invited Lecture*

**Fernando Fernández-Lázaro** (*Universidad Miguel Hernández de Elche, Elche, Spain*), Jorge Follana-Berná, Nathalie Zink-Lorre, Ángela Sastre-Santos, Andrew W. Dawson, Francis D'Souza

Symmetry-Breaking Charge Separation Processes in Phthalocyanine-Based Systems

*14:20 to 14:40 Invited Lecture*

**Luis Martin-Gomis** (*Universidad Miguel Hernández, Elche, Spain*), Andrew W. Dawson, Víctor Sobrino-Bastán, Francis D'Souza, Ángela Sastre-Santos

Excited charge separation in silicon(IV) phthalocyanine with axially bound C60 via azobenzene spacers

*14:40 to 15:00 Invited Lecture*

**Christine Paul-Roth** (*INSA de Rennes ISCR, Rennes, France*), Frédéric Paul, Olivier Mongin

New Fluorescent Porphyrins with Fluorenyl-containing Arms Designed for Optics

*15:00 to 15:20 Invited Lecture*

**Val Vullev** (*Department of Bioengineering, University of California, Riverside, Riverside, USA*)

What Dipoles Have to Do with Anything?

*15:20 to 15:40*

**Constantinos Varotsis** (*Department of Chemical Engineering, Cyprus University of Technology, Limassol, Cyprus*), Charalambos Tselios, Charalambos Andreou, Vasiliki Valianti, Eftychia Pinakoulaki

Thermal Dissipation of Absorbed Light in a Photo-Induced Enzymatic Reaction in the Cells of *Phaeodactylum tricornutum* via a trans-cis Isomerization in the Xanthophyll Cycle

*16:00 to 16:30*

Coffee Break

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## 26. Catalytic activation of CO<sub>2</sub> : From fuels to complex molecules

Floor 2 : Seminar Rooms 1 + 2

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Chaired by *Chaired by Mio Kondo, Shigeyuki Masaoka & Marc Robert*

14:00 to 14:20 *Invited Lecture*

**Kara Bren** (*University of Rochester, Rochester, USA*), Karishma Ramesh, Alison Salamatian, Maria Lizarazo, Linda Leone, Angela Lombardi

Cobalt Cytochrome Catalysts for CO<sub>2</sub> Conversion

14:20 to 14:40 *Invited Lecture*

**Kento Kosugi** (*Institute of Science, Tokyo, Meguro, Japan*)

Construction of Highly Efficient Molecular Catalytic Systems for CO<sub>2</sub> Reduction by Controlling Reaction Fields

14:40 to 15:00 *Invited Lecture*

**Eva Nichols** (*University of British Columbia, Vancouver, Canada*)

Dialing In Reactivity and Selectivity of CO<sub>2</sub> Reduction through Second-Sphere Design

15:00 to 15:20 *Invited Lecture*

**Hitoshi Izu** (*Institute for Chemical Research, Kyoto University, Uji, Japan*), Yuto Matsuoka, Kodai Yamamoto, W. M. C. Sameera, Kazuki Tanifuji, Yasuhiro Ohki

Metal-Sulfur Cluster Catalysts for the Direct Conversion of CO<sub>2</sub> into CH<sub>4</sub>

15:20 to 15:40 *Invited Lecture*

**Naonari Sakamoto** (*Toyota Central R&D Labs., Inc., Nagakute, Japan*), Keita Sekizawa, Soichi Shirai, Takamasa Nonaka, Takeo Arai, Shunsuke Sato, Takeshi Morikawa

Synthesis of C<sub>3+</sub> products via the electrochemical CO<sub>2</sub> reduction using dinuclear Cu(I) molecular catalysts

15:40 to 16:00 *Invited Lecture*

**Cyrille Costentin** (*Université Grenoble Alpes, Grenoble, France*)

Self-modulation and Self-protection Mechanisms in Molecular Catalysis of Electrochemical Reactions.

16:00 to 16:30 Coffee Break

16:30 to 16:50 *Invited Lecture*

**Junhyeok Seo** (*Chemistry/Gwangju Institute Of Science and Technology (GIST), Gwangju, Korea*)

Contrasting CO<sub>2</sub> Activation at Low- and High-Valent Metal Centers

16:50 to 17:10 *Invited Lecture*

**Jieun Jung** (*Nagoya University, Nagoya, Japan*)

Catalytic activation of CO<sub>2</sub> via photonic and molecular design

17:10 to 17:30 *Invited Lecture*

**Charles McCrory** (*Department of Chemistry, University of Michigan, Ann Arbor, USA*)

CO<sub>2</sub> Reduction by Cobalt Phthalocyanine: Comparing Aqueous-Phase Batch Reactors and Gas-Fed Flow Electrolyzers

17:30 to 17:50 *Invited Lecture*

**Takashi Nakazono** (*Osaka Metropolitan University, Osaka, Japan*)

Catalytic Activity of a Dinuclear Iron Complex Bearing a Doubly N-Confused Hexaphyrin toward Photocatalytic CO<sub>2</sub> Reduction and Water Oxidation

17:50 to 18:10 *Invited Lecture*

**Amanda Morris** (*Virginia Tech, Blacksburg, USA*)

Mechanistic Investigations of Carbon Dioxide Reduction by Porphyrinic MOFs

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## 28. Activatable probes for cancer imaging and therapy

Floor 2 : Medium Conference Room

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*Chaired by* Yasuteru Urano & Gang Zheng

14:00 to 14:20 *Invited Lecture*

**Ali Makky** (*Université Paris-Saclay, CNRS, Institut Galien Paris-Saclay, Orsay, France*),  
Khatia Merabishvili, Isokjon Pozilov, Jana Alhoussein, Christophe Regnard

Rational Design of Light-Induced Disruptive Porphyosomes for Improved Photodynamic Therapy Applications

14:20 to 14:40 *Invited Lecture*

**Yasuteru Urano** (*The University of Tokyo, Tokyo, Japan*)

Development of Novel Small Molecule-based Theranostics Technologies for Cancer

14:40 to 15:00 *Invited Lecture*

**Jan van Hest** (*Eindhoven University of Technology, Eindhoven, Netherlands*), Shukun Li, Jingxin Shao, Yingtong Luo, Yudong Li, Hanglong Wu, Shoupeng Cao

Topological Control in Polymersome-Based Nanomedicine

15:00 to 15:20 *Invited Lecture*

**Marc Vendrell** (*University of Edinburgh, Edinburgh, United Kingdom*)

Fluorescent probes for translational bioimaging

15:20 to 15:40 *Invited Lecture*

**Juyoung Yoon** (*Chemistry and Nanoscience/Ewha Womans University, Seoul, Korea*)

Recent Progress on Fluorescent Imaging Probes and Phototherapy

15:40 to 16:00 *Invited Lecture*

**Gang Zheng** (*University of Toronto and Princess Margaret Cancer Centre, Toronto, Canada*)

Porphyrin nanomedicine: from activatable photosensitizers to radiopharmaceuticals

16:00 to 16:30 Coffee Break

## 34. Heme proteins and synthetic analogues

Floor 3 : Conference Room 2

*Chaired by Chaired by John Dawson & Takashi Hayashi*

*14:00 to 14:20 Invited Lecture*

**Osami Shoji** (*Nagoya University, Nagoya, Japan*)

Probing and Expanding the Catalytic Scope of Cytochrome P450BM3 for Gaseous Alkane Hydroxylation through Decoy Molecule Strategies

*14:20 to 14:40 Invited Lecture*

**Emily Weinert** (*Dept. of Biochemistry & Molecular Biology, Penn State University, University Park, USA*)

Mechanisms of ligand-dependent activation of bacterial globin coupled sensors

*14:40 to 15:00 Invited Lecture*

**Shun Hirota** (*Nara Institute of Science and Technology, Ikoma, Japan*), Cheng Xie, Takahiro Sakai, Hongxu Yang, Tsuyoshi Mashima, Kassandra Boshae, Bruce Bowler, Hideaki Ogata

Precursor State of 3D Domain Swapping in the Folding Process of Cytochrome c

*15:00 to 15:20 Invited Lecture*

**Petra Hellwig** (*University of Strasbourg, CNRS, Strasbourg, France*), Raaif Siddeeqe, Daniel Hatlem, Hartmut Michel, Frédéric Melin

Role of the CuB Center in the Formation and Stabilization of the F-State in Cytochrome c Oxidase from *Paracoccus denitrificans*

*15:20 to 15:40 Invited Lecture*

**Denis Rousseau** (*Department of Biochemistry/Albert Einstein College of Medicine, Bronx, USA*), Izumi Ishigami, Syun-Ru Yeh

Redox Gating of Proton Translocation in Cytochrome c Oxidase

*15:40 to 16:00 Invited Lecture*

**Anabella Ivancich** (*Centre National de la Recherche Scientifique (CNRS), Marseille, France*)

De novo heme catalysts: [alpha]-helical coiled-coils with unprecedented heme&Trp redox cofactors for bioinspired catalysis featuring [Fe(IV)=O Por<sup>•+</sup>] and [Fe(IV)=O Trp<sup>•</sup>] catalytic intermediates

*16:00 to 16:30*

Coffee Break

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## 35. Catalysis in natural and biosynthetic heme proteins

Floor 3 : Conference Room 2

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*Chaired by Anabella Ivancich, Osami Shoji & Giuletta Smulevich*

*16:30 to 16:50 Invited Lecture*

**Yi Lu** (*The University of Texas at Austin, Austin, USA*), Yiwei Liu, Aaron Ledray, Barshali Ghosh  
Designing biosynthetic models of heme-copper enzymes to understand oxidase and sulfite reductase catalysis

*16:50 to 17:10 Invited Lecture*

**Kenneth Karlin** (*Chemistry/Johns Hopkins University, Baltimore, USA*)  
Heme-M (M = Cu or non-heme Fe) Modeling: Synthetic Constructs and O<sub>2</sub> or NO Reactivity

*17:10 to 17:30 Invited Lecture*

**Nicolai Lehnert** (*University of Michigan, Ann Arbor, USA*), Daniel Castella, Elizabeth Manickas  
Stabilization and Characterization of a Heme-HNO Adduct in a Model Complex for Cytochrome P450nor

*17:30 to 17:50 Invited Lecture*

**Stephen Bell** (*Adelaide University, Adelaide, Australia*), Matthew Podgorski, Joel Lee, Eva Hayball, Alecia Gee, Tuhin Das, Oghenesivwe Osiebe, Maya Doyle, Gashaw Dagnaw  
The Structure and Mechanism of Natural and Engineered Heme Oxygenase Biocatalysts

*17:50 to 18:10 Invited Lecture*

**Michael T. Green** (*University of California, Irvine, USA*)  
P450 Compound I: Is it really a blowtorch?

*18:10 to 18:30 Invited Lecture*

**Samuel Mann** (*University of California, Riverside, Riverside, USA*), Jithin Thomas, Sudha Yadav, Paul Oyala, Veronica Carta, David Goldberg  
A High Valent Mn(V)-Nitrido Species within a De Novo Designed Protein

## 41. Theory and spectroscopy

Floor 3 : Conference Room D

*Chaired by Nagao Kobayashi & Martin Stillman*

*16:30 to 16:50 Invited Lecture*

**Leor Kronik** (*Weizmann Institute of Science, Rehovoth, Israel*)

First principles theory of phthalocyanines and corroles: from molecules to crystals

*16:50 to 17:10 Invited Lecture*

**Anas Santria** (*The University of Osaka, Toyonaka, Japan*), Tsuyoshi Ashida, Naoto Ishikawa

Extending Photoinduced Magnetism to Light Lanthanide through Porphyrin Excited States

*17:10 to 17:30 Invited Lecture*

**Sergei Vinogradov** (*University of Pennsylvania, Philadelphia, USA*)

Zn Dipyrins: Exciton Coupling, Excitation Energy Dynamics and Applications in Biosensing

*17:30 to 17:50 Invited Lecture*

**Alexander Efimov** (*Tampere University, CAM/ENS, Tampere, Finland*), Nagao Kobayashi, Atsuya Muranaka, Aleksandr Penni, Viacheslav Golovanov, Riikka Rimmistö, Sebastian Päscht, Nikita Durandin

The windmill, the dragon and the frog: isomerically pure  $\alpha$ -aryl-substituted phthalocyanines, their spectral features and functions

*17:50 to 18:10 Invited Lecture*

**Hirofumi Ueda** (*Department of Pharmaceutical Sciences, Tohoku University, Sendai, Japan*), Kei Yoshida, Mirai Hayashi, Nagao Kobayashi, Hidetoshi Tokuyama

Development of FePc(CO<sub>2</sub>H)<sub>8</sub>-Catalyzed Oxidative Chemical Modification of Glycine Derivatives

*18:10 to 18:30 Invited Lecture*

**Martin Stillman** (*The University of Western Ontario, London, Canada*)

Quantifying the electronic properties of tetrapyrroles: Predicting spectral properties from the electronic structures

## Tuesday, 30 June - Morning

### Award Lecture

Floor 1 : Terrsa Hall



09:00 to 10:00

*Eraldo Antonini Career Award for Lifetime Achievements in the field of Heme Proteins Lecture*

*Introduced by John H. Dawson*

**Takashi Hayashi** (*The University of Osaka, Graduate School of Engineering, Suita, Japan*)

Modification of Hemoproteins for Creating New Biocatalysts and Bionanomaterials

10:00 to 10:30

Coffee Break

### 5. Synthesis and properties of porphyrinoids

Floor 1 : Terrsa Hall



*Chaired by Gema de la Torre, Andrew Cammidge & Tomás Torres*

10:30 to 10:50 *Invited Lecture*

**Dirk Guldi** (*Profile Center Solar Department of Chemistry and Pharmacy Interdisciplinary Center for Molecular Materials (ICMM), Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU), Erlangen, Germany*)

Exciton Migration in Porphrinc Systems

10:50 to 11:10 *Invited Lecture*

**Dennis Ng** (*Dept of Chemistry, The Chinese University of Hong Kong, Hong Kong, China*), Ka-Hin Chan, Dick Yan Tam

Carrying Photosensitizers and Antisense Oligonucleotides with a G-Quadruplex Platform for Synergistic Photodynamic and Antisense Therapy

11:10 to 11:30 *Invited Lecture*

**Anna Sinelshchikova** (*BCMaterials, Basque Center for Materials, Applications and Nanostructures, Leioa, Spain*), Roberto Fernández de Luis, Stefan Wuttke, Jacopo Andreato

One-pot Porphyrin Metal-Organic Frameworks

11:30 to 11:50

**Nuno M. M. Moura** (*University of Aveiro, Aveiro, Portugal*), Filipe M. P. Morais, Inês Chaves, Cátia Vieira, M. Graça P. M. S. Neves, Adelaide Almeida, M. Amparo F. Faustino

Photodynamic efficacy of cationic porphyrin-triphenylphosphonium conjugates

11:50 to 12:10

**Jong Seung Park** (*Pusan National University, Busan, Korea*)

Efficient Corrosion Protection of Aluminum Alloys Using Metallophthalocyanines for Electrochemical Applications

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## 12. Aromaticity and antiaromaticity

Floor 3 : Large Conference Room A + B

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*Chaired by Dongho Kim, Jonathan Sessler & Hiroshi Shinokubo*

*10:30 to 10:50 Invited Lecture*

**Atsuhiko Osuka** (*Hunan Normal University, Changsha, China*)

Stable Antiaromatic Expanded Porphyrins

*10:50 to 11:10 Invited Lecture*

**Jun-Long Zhang** (*Peking University, Beijing, China*)

NIR Lanthanide Phototheranostics

*11:30 to 11:50 Invited Lecture*

**Yongshu Xie** (*East China University of Science and Technology, Shanghai, China*), Qizhao Li, Yanping Huang, Guangxian Su

Porphyrioid monomers and dimers with tunable aromaticity based on the N-confusion approach

*...continued after lunch*

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## 15. Porphyrinoids at interfaces

Floor 3 : Large Conference Room C

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*Chaired by Wilhelm Auwärter, David Écija & Wolfgang Schöfberger*

*10:30 to 10:50 Invited Lecture*

**Giovanni Bottari** (*Universidad Autónoma de Madrid, Madrid, Spain*), Miguel Martínez García, Sergio Ligos, Tomás Torres, Feifei Xiang, Roman Fasel, David Écija

Tailoring Electronic Properties in  $\pi$ -Extended Porphyrin-based Nanostructures through Bottom-Up Fabrication

*10:50 to 11:10 Invited Lecture*

**Michel Rickhaus** (*University of Geneva, Geneva, Switzerland*)

How Bending Porphyrinoids Leads to Extraordinary Order

*11:10 to 11:30 Invited Lecture*

**Anna Roslawska** (*Max Planck Institute for Solid State Research, Stuttgart, Germany*)

Optical Properties of Individual Chlorophylls and Phthalocyanines Probed at the Atomic Scale

11:30 to 11:50 *Invited Lecture*

**Nan Jiang** (*Department of Chemistry/University of Illinois Chicago, Chicago, USA*)

Ångström-Scale Insights into On-Surface Porphyrin Chemistry via Tip-Enhanced Raman Spectroscopy

11:50 to 12:10 *Invited Lecture*

**Abner de Siervo** (*University of Campinas, Campinas, Brazil*)

On-surface Synthesis of Porphyrin-Based MONs: a Model System for Catalysis and Artificial Spin Lattices

12:10 to 12:30 *Invited Lecture*

**Alex Saywell** (*University of Nottingham, Nottingham, United Kingdom*)

On-Surface Synthesis: Extrinsic Catalysis and Molecular Conformation

12:30 to 12:50 *Invited Lecture*

**Jimmy Jiang** (*University of Cincinnati, Cincinnati, USA*)

Electrosynthesis of Verdoheme and Biliverdin Derivatives Following Enzymatic Pathways

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## 25. Spin transport and dynamics in molecular and nanoscale systems

Floor 2 : Seminar Rooms 1 + 2

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*Chaired by Ryan Hadt & Michael Therien*

10:30 to 10:50 *Invited Lecture*

**Ryan Hadt** (*California Institute of Technology, Pasadena, USA*)

Ultrafast Molecular Spin Coherence for Quantum Transduction in Complex Environments

10:50 to 11:10 *Invited Lecture*

**Francesco Tassinari** (*University of Modena and Reggio Emilia, Modena, Italy*), Martina Campi, Valeria Iacomini, Roberto Biagi, Andrea Cornia, Alessio Nicolini

Spin Selective Catalysis with Chiral Metal-Organic Frameworks

11:10 to 11:30 *Invited Lecture*

**Martin Kirk** (*The University of New Mexico, Albuquerque, USA*), David Shultz, Art van der Est

Mechanistic Insight into Photogenerated Spin Polarization of Single and Exchange Coupled Spin Systems

11:30 to 11:50 *Invited Lecture*

**Yossi Paltiel** (*Applied physics, The Hebrew University of Jerusalem, Jerusalem, Israel*)

Efficient green energy production using chiral coating

*...continued after lunch*

### 33. Porphyrinoids in photomedicine

Floor 2 : Medium Conference Room



Chaired by Fabienne Dumoulin & Takahiro Nomoto

10:30 to 10:50 Invited Lecture

**Takahiro Nomoto** (*Graduate School of Arts and Sciences, The University of Tokyo, Tokyo, Japan*)

Polymer-Photosensitizer Conjugates for Tumor-Targeted Photodynamic Therapy

10:50 to 11:10 Invited Lecture

**Martina Vermathen** (*Dept. Chemistry, Biochemistry & Pharm. Sciences, University of Bern, Bern, Switzerland*)

Advances in the Development of Topical Phospholipid Carriers for Porphyrinic Photosensitizers

11:10 to 11:30 Invited Lecture

**Kei Murata** (*RIKEN, Wako, Japan*), Yuki Saibe, Mayu Uchida, Mizuki Aono, Ryuji Misawa, Yoshiho Ikeuchi, Kazuyuki Ishii

Photorelease of Reactive Carbon Species from Organorhodium Phthalocyanine Complexes

11:30 to 11:50 Invited Lecture

**Sinem Tuncel Kostakoglu** (*Acibadem Mehmet Ali Aydinlar University, Istanbul, Turkey*)

Enzyme-responsive materials for photodynamic therapy

11:50 to 12:10 Invited Lecture

**Hiroaki Horiuchi** (*Kyoto Prefectural University, Kyoto, Jordan*)

Development of low pH-activatable photosensitizers for photodynamic therapy and diagnosis

12:10 to 12:30 Invited Lecture

**Anna Lewandowska-Andralojc** (*Adam Mickiewicz University, Faculty of Chemistry, Poznan, Poland*), Aleksander Kolman, Blazej Scheibe

Tuning Photosensitizer Performance: Spectroscopic Insights into m-THPC Interactions with Proteins, Micelles, and Graphene-Based Nanomaterials

12:30 to 12:50

**Carlos Monteiro** (*LAQV-REQUIMTE, Department of Chemistry, University of Aveiro, Aveiro, Portugal*), Ana Joaquineto, Luca Menilli, Federico Frendo, Giorgia Miolo, Maria Faustino

New Porphyrin Functionalized with Azabicyclic Amidines for PDT Applications

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## 35. Catalysis in natural and biosynthetic heme proteins

Floor 3 : Conference Room 2

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*Chaired by Anabella Ivancich, Osami Shoji & Giulietta Smulevich*

*10:30 to 10:50 Invited Lecture*

**Nikhil Malvankar** (*Yale University, West Haven, USA*)

Imaging & Control of Microbial Metabolism by Targeting Extracellular Electron Transfer via Cytochrome Nanowires

*10:50 to 11:10 Invited Lecture*

**Smilja Todorovic** (*ITQB-NOVA Universidade Nova de Lisboa, Oeiras, Portugal*), Célia M. Silveira, Angelique Pothuizen, Marc J. F. Strampraad, Frank Hollmann

Electrocatalysis of Heme Enzymes, beyond substrate sensing / degradation

*11:10 to 11:30 Invited Lecture*

**Piotr Mak** (*Saint Louis University, Saint Louis, USA*)

Peptide- and DNA-based heme protein models – spectroscopic insight

*11:30 to 11:50 Invited Lecture*

**Pierre Moenne-Loccoz** (*Oregon Health & Science University, Portland, USA*)

Probing active sites outersphere influences in heme and nonheme iron proteins using photolabile exogenous ligand donors at cryogenic temperatures

*11:50 to 12:10 Invited Lecture*

**Federico Sebastiani** (*Dept. of Chemistry DICUS - University of Florence, Sesto Fiorentino (FI), Italy*), Alice Cassiani, Andrea Dali, Thomas Gabler, Maurizio Becucci, Paul Furtmueller, Stefan Hofbauer, Giulietta Smulevich

Iron insertion in bacterial ferrochelatases: active site architecture and iron-sulfur cluster

*12:10 to 12:30 Invited Lecture*

**Syun-Ru Yeh** (*Biochemistry, Bronx, USA*)

Molecular Determinants of Selective Inhibition of Human IDO1 and TDO

## Tuesday, 30 June - Afternoon

### 4. Carbaporphyrinoids with N-confusion and fusion

Floor 1 : Terrsa Hall

*Chaired by Hiroyuki Furuta & Yongshu Xie*

*15:00 to 15:20 Invited Lecture*

**Chen-Hsiung Hung** (*Institute of Chemistry, Academia Sinica, Nankang, Taipei, Taiwan*)

Metal Complexes of N-Confused Porphyrins and Their Sustainable Energy Applications

*15:20 to 15:40 Invited Lecture*

**Christopher Ziegler** (*University of Akron, Akron, USA*)

Interrogating Electronic Structure in N-Confused Porphyrins

*15:40 to 16:00 Invited Lecture*

**Srinivasan Alagar** (*School of Chemical Sciences, Bhubaneswar, India*), Rampal Vishwakarma, Mainak Das

Meso-Modified Porphyrinoids: Its B(III) and bis-Rh(I) Complexes

*16:00 to 16:30*

Coffee Break

*16:30 to 16:50 Invited Lecture*

**Qizhao Li** (*East China University of Science and Technology, Shanghai, China*), Yongshu Xie

Synthesis and properties of novel confused expanded porphyrinoids

*16:50 to 17:10 Invited Lecture*

**Chuanhu Lei** (*Shanghai University, Shanghai, China*)

Rigid Expanded Porphyrinoids: Design, Synthesis, and Properties Study

*17:10 to 17:30*

**Michal Bialek** (*Department of Chemistry, University of Wroclaw, Wroclaw, Poland*), Kinga Szydelko, Wiktor Bara

Regioselective arylation and coordination cavity magic in carbaporphyrinoids

*17:30 to 17:50*

**Wei-Min Ching** (*National Kaohsiung Normal University, Kaohsiung, Taiwan*), Cheng-Chau Chiu, Chen-Hsiung Hung

Regioselective reduction of N-confused porphyrin: N-Confused Chlorin iron nitrosyl complex

## 5. Synthesis and properties of porphyrinoids

Floor 1 : Terrsa Hall



Chaired by Gema de la Torre, Andrew Cammidge & Tomás Torres

14:00 to 14:10

**Jiri Demuth** (*Faculty of Pharmacy in Hradec Kralove, Charles University, Hradec Kralove, Czech Republic*), Radek Machan, Ivan Mocak, Tibor Malinsky, Mona A. El Dahabova, Jakub Holcak, Stefan Bednarik, Miroslav Miletin, Jan Labuta, Veronika Novakova, Petr Zimcik

J-dimers of Tetrapyrazinoporphyrazines

14:10 to 14:20

**Runchang Liu** (*ATA Law Corporation, Richmond, Canada*), David Dolphin

Synthesis of Neo-triphyrin(0.1.1)

14:20 to 14:30

**Sebastian Pätsch** (*Tampere University, Tampere, Finland*), Aleksandr Penni, Luis A. Gallego-Villada, Dmitry Yu. Murzin, Päivi Mäki-Arvela, Alexander Efimov

Understanding the steric influence in  $\alpha$ -substituted metal phthalocyanines on synthesis, structure and reactivity

14:30 to 14:40

**Evgeniya Safonova** (*Frumkin Institute of Physical Chemistry and Electrochemistry, Russian Academy of Sciences, Moscow, Russia*), Marina Polovkova, Anna Ovchenkova, Egor Gorshkov, Roman Akasov, Aslan Tsivadze, Yulia Gorbunova

Water-soluble phosphorus(V) phthalocyanines: From synthesis to biomedical applications

## 12. Aromaticity and antiaromaticity

Floor 3 : Large Conference Room A + B

Chaired by Dongho Kim, Jonathan Sessler & Hiroshi Shinokubo

14:00 to 14:20 *Invited Lecture*

**Yoshihiro Matano** (*Department of Chemistry, Faculty of Science, Niigata University, Niigata, Japan*)

Azaporphyrinoids Bearing *meso*-N-Substituents: Platforms for Evaluating Antiaromaticity and Aromaticity

14:20 to 14:40 *Invited Lecture*

**Dong-Gyu Cho** (*Inha University, Incheon, Korea*)

Exploring the Chemistry of 1,7-Naphthiporphyrin Derivatives through a Molecular Engineering Approach

14:40 to 15:00 *Invited Lecture*

**Henrik Ottosson** (*Uppsala University, Uppsala, Sweden*)

From  $H_3^+$  to Porphyrinoids: An Excursion into the Wide Land of Excited State Aromaticity

15:00 to 15:20 *Invited Lecture*

**Naoyuki Toriumi** (*The University of Tokyo, Tokyo, Japan*), Masanobu Uchiyama  
*meso*-Edited Phthalocyanine Derivatives

15:20 to 15:40

**Martin Peeks** (*University of New South Wales, Sydney, Australia*)  
Manifestations of (anti)aromaticity in porphyrinoids, big and small

16:00 to 16:30 Coffee Break

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### 13. Chiral porphyrinoids and related systems

Floor 3 : Large Conference Room A + B

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*Chaired by Alessandro D'Urso & Manuela Stefanelli*

16:30 to 16:50 *Invited Lecture*

**Alessandro D'Urso** (*Chemical Science Department/ University of Catania, Catania, Italy*)  
Exploiting porphyrins to induce the antiparallel to parallel transition of RNA G-quadruplex

16:50 to 17:10 *Invited Lecture*

**Giorgia Oliviero** (*Department of Molecular Medicine and Medical Biotechnology, University of Naples Federico II, Napoli, Italy*), Nicola Borbone, Stefano D'Errico, Luca De Stefano, Alessandro D'Urso, Maria Grazia Nolli, Monica Terracciano, Gennaro Piccialli

Porphyrin–Gold Nanoaggregates as Multifunctional Platforms for Photothermal Cancer Therapy

17:10 to 17:30 *Invited Lecture*

**Irina Osadchuk** (*Tallinn University of Technology, Department of Chemistry and Biotechnology, Tallinn, Estonia*), Victor Borovkov

Influence of geometrical factors on ECD spectra of porphyrin-based supramolecules

17:30 to 17:50 *Invited Lecture*

**Sankar Prasad Rath** (*Indian Institute of Technology Kanpur, Kanpur, India*)

Modulation of Supramolecular Chirality using 'Nano-size' Trizinc(II)porphyrin Trimers: A Structure-Function Correlation

17:50 to 18:10 *Invited Lecture*

**Manuela Stefanelli** (*University of Rome Tor Vergata, Rome, Italy*), Giuseppe Pomarico, Mariano Venanzi, Roberto Paolesse, Monti Donato

Supramolecular Chirogenesis in Porphyrin-Surfactant Based Heterosystems

18:10 to 18:20

**Andrei Kroitor** (*Institute of Physical Chemistry & Electrochemistry, Russian Academy of Sciences, Moscow, Russia*), Alexander Dmitrienko, Cenna Toullec, Alexander Martynov, Yulia Gorbunova, Alexander Sorokin

Expanding the porphyrinoid toolbox: recent progress in the carbene transfer catalyzed with tetrapyrrolic complexes

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## 23. Redox chemistry and electrochemistry of porphyrinoids and oligopyrroles

Floor 2 : Seminar Rooms 1 + 2

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Chaired by Gabriel Canard, Charles Devillers & Masatoshi Ishida

16:30 to 16:50 *Invited Lecture*

**Elisa Tomat** (*University of Vienna, Wien, Austria*), Iva Habensus, Lily North, Clayton Curtis, Andrei Astashkin

Tripyrindione Radicals: Metal Coordination, Redox Chemistry, and anti-Kasha Fluorescence

16:50 to 17:10 *Invited Lecture*

**Ji-Young Shin** (*Nagoya University, Nagoya, Japan*)

An Exploration Study of Practical Secondary Organic Batteries with Porphyrinoid Electrodes

17:10 to 17:30

**Hirorufumi Yoshikawa** (*Kwansei Gakuin University, Sanda, Japan*)

Application of Iron Phthalocyanine Dimers as Cathode-Active Materials for Rechargeable Batteries

17:30 to 17:50 *Invited Lecture*

**Cédric Colomban** (*CNRS Aix-Marseille University, Marseille, France*)

Caged Metalloporphyrin Complexes: getting closure to metalloenzymes' functionalities.

...continued Thursday morning

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## 24. Photocatalysis

Floor 3 : Conference Room D

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Chaired by Zeev Gross & Yusuke Kuramochi

14:00 to 14:20 *Invited Lecture*

**Marc Robert** (*Sorbonne Université, Paris, France*)

From Innovative Molecular Photocathodes to Photoelectrochemical Cell for Unassisted CO<sub>2</sub> Reduction

14:20 to 14:40 *Invited Lecture*

**Shigeyuki Masaoka** (*Division of Applied Chemistry, Graduate School of Engineering, The University of Osaka, Suita, Japan*)

Development of Molecular Catalysts for Photosynthetic Reactions

14:40 to 15:00 *Invited Lecture*

**Ho-Jin Son** (*Advanced Materials Chemistry, Korea University, Sejong, Korea*), Min-Jong Bong, Seung-Hwan Cha, Sangheon Jeong, Chul Hoon Kim

Porphyrin-Centered Photophysics and Electron-Transfer Strategies for Efficient TiO<sub>2</sub>-Mediated Carbon Dioxide Reduction

15:00 to 15:20 *Invited Lecture*

**Kosei Yamauchi** (*Kyushu University, Fukuoka, Japan*)

Photocatalytic Energy Conversion with Cobalt-NHC Catalysts

15:20 to 15:40 *Invited Lecture*

**Atif Mahammed** (*Technion-Israel Institute of Technology, Haifa, Israel*), Qiu-Cheng Chen

Metalloporphyrins as High-Performance Photoredox Catalysts for Decarboxylative Fluorination

15:40 to 16:00 *Invited Lecture*

**Haining Tian** (*Physical Chemistry, Uppsala University, Uppsala, Sweden*)

Tuning Charge Transfer in Porphyrins for Photocatalysis

16:00 to 16:30

Coffee Break

16:30 to 16:50 *Invited Lecture*

**Taniyuki Furuyama** (*Graduate School of Engineering, University of Hyogo, Himeji, Japan*)

Development of Near-Infrared Light-Responsive Phthalocyanine-Based Photocatalysts

16:50 to 17:10 *Invited Lecture*

**Iti Gupta** (*Indian Institute of Technology Gandhinagar, Gandhinagar, India*), Kritika Agarwal, Samrita Sharma

Exploring Photocatalysis with Metal Dipyrrinato Complexes

17:10 to 17:30 *Invited Lecture*

**Dorota Gryko** (*Institute of Organic Chemistry, Polish Academy of Sciences, Warsaw, Poland*)

Photochemical reactions in aqueous micellar environment

17:30 to 17:50

**Martin Presselt** (*Leibniz-Institut of Photonic Technology, Jena, Germany*), Sarah Jasmin Finkelmeyer, Konrad Hotzel, Charlotte Mankel, Stefan Zechel, Martin D. Hager, Ulrich S. Schubert, Kalina Peneva

Langmuir Monolayers as a Platform for Scalable Two-Dimensional Photocatalytic Membranes

17:50 to 18:10 *Invited Lecture*

**David George Churchill** (*KAIST, Yuseong-Gu, Korea*), Xuan Zhan, Zakir Ullah, Donghyeon Kim

Enabling Dual C–H Chlorination and H<sub>2</sub>O<sub>2</sub> Generation with CF<sub>3</sub>-containing Phosphorus Corroles

18:10 to 18:30 *Invited Lecture*

**Atsushi Kobayashi** (*Tokyo University of Marine Science and Technology, Tokyo, Japan*), Satoshi Odagiri

Dual-porphyrin-sensitized photocatalyst for efficient charge separation and solar hydrogen production

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## 25. Spin transport and dynamics in molecular and nanoscale systems

Floor 2 : Seminar Rooms 1 + 2

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*Chaired by Ryan Hadt & Michael Therien*

*14:00 to 14:20 Invited Lecture*

**David Shultz** (*North Carolina State University, Raleigh, USA*), Anil Reddy Marri, Andre Nogueira, Martin Kirk

Exchange Coupling and Spin Relaxation in Ground State Analogs of Ligand-to-Ligand Charge Transfer Excited States

*14:20 to 14:30*

**Fabio Santanni** (*Trinity College Dublin, Dublin, Ireland*), Christian Teutloff, Kseniia Mamaeva, Anja C. Gotzen, Brendan Twamley, A. Louise Bradley, Robert Bittl, Mathias O. Senge

Weak magnetic coupling interactions and spin dynamics in photochromic porphyrin-based quantum logic gates

*14:40 to 15:00 Invited Lecture*

**Michael Therien** (*Department of Chemistry, Duke University, Durham, USA*), Jiaqi Zhu, Elizabeth Shiby, Anu Gupta, Brian P. Bloom, Anisha Mondal, Chih-Hung Ko, Victoria L. Cinnater, Jonas Fransson, Yossi Paltiel, Ron Naaman, David H. Waldeck

Vertically Aligned Chiral Low-Resistance Porphyrin Wires Enable Spin Valves without Ferromagnetic Contacts

*15:00 to 15:20 Invited Lecture*

**Ron Naaman** (*Weizmann Institute, Rehovot, Israel*)

The Chiral Induced Spin Selectivity- Why it is so special?

*16:00 to 16:30*

Coffee Break

### 33. Porphyrinoids in photomedicine

Floor 2 : Medium Conference Room



Chaired by Fabienne Dumoulin & Takahiro Nomoto

14:00 to 14:20 Invited Lecture

**Srivalleesha Mallidi** (*Tufts University, Medford, USA*)

Towards Photoacoustic Imaging-Enabled Personalized Photodynamic Therapy: From Molecular Contrast to Real-time Oxygen Mapping

14:20 to 14:40 Invited Lecture

**Vincent Sol** (*University de Limoges, Limoges, France*), Luce Janice Nzimbou, Frederique Brégier

Synthesis of New Derivatives of Purpurin Imide with Functional Group for PDT Application.

14:40 to 15:00 Invited Lecture

**Makiko Sasaki** (*Department of Gastroenterology and Metabolism, Nagoya City University Graduate School of Medical Sciences, Nagoya, Japan*), Mamoru Tanaka, Hiromi Kataoka

Cancer Immunity Activation in Photodynamic Therapy Using Talaporfin Sodium

15:00 to 15:20

**Nela Malatesti** (*Faculty of Biotechnology and Drug Development, Rijeka, Croatia*), Martina Mušković Lukić, Martin Lončarić, Nikola Basarić, Ivana Ratkaj

Tripyridyl Porphyrin Derivatives and Their Photodynamic Action on Melanoma Cells under Hypoxic Conditions

15:20 to 15:40 Invited Lecture

**Riku Kawasaki** (*Hiroshima University, Higashi Hiroshima, Japan*), Takuro Eto, Shoma Takeichi, Naoki Tarutani, Kiyofumi Katagiri, Keita Yamana, Takeshi Nagasaki, Atsushi Ikeda

Photodynamic Therapy Using Chlorin e6-Bearing Pullulan Nanogel as a Nano-Based Photosensitizer

15:40 to 16:00 Invited Lecture

**Barbara Ventura** (*Istituto per la Sintesi Organica e la Fotoreattività (ISOF) – Consiglio Nazionale delle Ricerche (CNR), Bologna, Italy*)

Photophysical properties of porphyrin-based Type-I and Type-II photosensitizers

16:00 to 16:30

Coffee Break

16:30 to 16:50 Invited Lecture

**Yuma Yamada** (*Hokkaido University, Sapporo, Japan*)

An Exploratory Approach to Mitochondria-Targeted Photomedicine Using Porphyrinoid-Encapsulated Lipid Nanoparticles

16:50 to 17:10 *Invited Lecture*

**Magali Gary-Bobo** (*IBMM, Castelnau-le-Lez, France*)

Biological Models for Photoactivable Nanoparticles and Photosensitizers Study

17:10 to 17:30 *Invited Lecture*

**Janusz Dabrowski** (*Uniwersytet Jagielloński, Kraków, Poland*)

Structure–Property Modulation in Porphyrinoids: A Molecular Roadmap from Anticancer Photodynamic Therapy to Antimicrobial Photodynamic Inactivation

17:30 to 17:50 *Invited Lecture*

**Emiyu Ogawa** (*Keio University, Yokohama, Japan*)

Monte Carlo and Rate-Equation Modeling of Interstitial Photodynamic Therapy for Brain and Spinal Tumors

17:50 to 18:10 *Invited Lecture*

**Tomohiro Osaki** (*Faculty of Agriculture, Tottori University, Tottori, Japan*), Shuntaro Tao, Isao Sakata, Kiwamu Takahashi, Takashi Iwasaki, Tetsuya Kadonosono, Takahiro Nomoto

Trial of photodynamic therapy for canine bladder transitional cell carcinomas

18:10 to 18:30

**Edith K. Amuhaya** (*United States International University - Africa, Nairobi, Kenya*), Isaiah B. Mwanzia, Margaret W. Murage, Tebello Nyokong

Advances in Photodynamic Materials for Antimicrobial and Environmental Applications

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## 36. Heme sensors, regulations and trafficking

Floor 3 : Conference Room 2

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*Chaired by Koichiro Ishimori & Emily Weinert*

14:00 to 14:20 *Invited Lecture*

**Hitomi Sawai** (*Osaka Metropolitan University, Osaka City, Japan*)

The development of a soft X-ray microscope for imaging of heme iron in living cells to understand its dynamics

14:20 to 14:40 *Invited Lecture*

**Ekaterina Pletneva** (*Department of Chemistry, Dartmouth College, Hanover, USA*)

Displacement of Methionine Coordination at the Heme Iron in Regulation of Signaling and Redox Pathways

14:40 to 15:00 *Invited Lecture*

**Atsuki Nakagami** (*Doshisha University, Kyotanabe, Japan*), Masahito Kodera, Hiroaki Kitagishi

Nitric Oxide Binding to *meso*-Tetraphenylporphyrin Fe(II/III) Complexes Encapsulated in the Cyclodextrin Nanocavities in Aqueous Solution

15:00 to 15:20 *Invited Lecture*

**Molly Sutherland** (*Department of Biological Sciences/University of Delaware, Newark, USA*),  
Alicia Kreiman, Tania Yeasmin

Insights into heme binding and transport in bacterial cytochrome c biogenesis

15:20 to 15:40 *Invited Lecture*

**Rei Tohda** (*Graduate School of Science, University of Hyogo, Hyogo, Japan*), Yukino Tsuji, Norifumi Muraki, Seiki Baba, Hideo Okumura, Yoshiaki Kawano, Takeshi Yokoyama, Takehiko Tosha, Shigetoshi Aono

Molecular mechanisms of heme-based oxygen sensor protein in bacterial chemotaxis

15:40 to 16:00 *Invited Lecture*

**Judith Burstyn** (*University of Wisconsin-Madison, Madison, USA*), Madeleine Roberts, Matthew Dent, Brian Weaver, Christopher Berndsen

Heme-Dependent CO Sensing Transcription Factors: CooA and RcoM

16:00 to 16:30

Coffee Break

16:30 to 16:50 *Invited Lecture*

**Tasuku Hirayama** (*Gifu Pharmaceutical University, Gifu, Japan*)

Chemical tools for fluorescence imaging of labile heme in living cells and tissues

16:50 to 17:10 *Invited Lecture*

**Jennifer DuBois** (*Montana State University, Bozeman, USA*)

A Widespread System for Anaerobically Removing Iron from Heme

17:10 to 17:30 *Invited Lecture*

**Matthew Dent** (*Wayne State University, Detroit, USA*), Nisa Mahmood, Mustafa Alithawi, Jayani Nissanka  
Defining heme pocket factors that drive ligand selectivity in the carbon monoxide sensor protein P<sub>x</sub>RcoM-1

17:30 to 17:50 *Invited Lecture*

**Markéta Martínková** (*Department of Biochemistry, Faculty of Science, Charles University, Prague 2, Czech Republic*), Artur Sergunin, Petr Pompach, Jakub Vavra, Dominik Pasek, Toru Shimizu

The structure-function relationship of heme sensor proteins

17:50 to 18:10 *Invited Lecture*

**Tatsuru Masuda** (*The University of Tokyo, Tokyo, Japan*), Mihoko Takenoya, Takayuki Shimizu  
Trafficking of Heme as Plastid-Derived Retrograde Signal in Plant Cells

# Wednesday, 1 July - Morning

## Award Lectures

Floor 1 : Terrsa Hall



09:00 to 09:30

### *SPP/JPP Young Investigator Award Lecture*

*Introduced by Hiroshi Imahori*

**Tomohiro Higashino** (*Department of Molecular Engineering, Graduate School of Engineering, Kyoto University, Kyoto, Japan*)

Molecular Design Principles of Porphyrinoid-Based Dyes for Efficient Solar Energy Conversion

09:30 to 10:00

### *SPP/JPP Young Investigator Award Lecture*

*Introduced by Dongho Kim*

**Juwon Oh** (*Kyungpook National University, Daegu, Korea*)

Porphyrinoids as a Molecular Platform for Revealing and Understanding Excited-State Aromaticity

10:00 to 10:30

### *SPP/JPP Young Investigator Award Lecture*

*Introduced by Shigeyuki Masaoka*

**Jia-Wei Wang** (*Sun Yat-Sen University, Zhuhai, China*), Fan Ma

Cobalt Porphyrin and Phthalocyanine Catalysts for CO<sub>2</sub> Photoreduction

10:30 to 11:00

Coffee Break

11:00 to 11:30

### *Barry Lever Young Investigator Award in the Field of Physical Inorganic Chemistry Lecture*

*Introduced by Viktor Nemykin*

**Brendon McNicholas** (*University of Tennessee, Knoxville, Knoxville, USA*)

Phthalocyanines as Multifunctional Platforms: Fundamental Electronic Structure, Energy Storage, and Electrocatalytic Applications

*followed by...*

11:30 to 12:00

**Group photo** (*all participants*)

## Thursday, 2 July - Morning

### Award Lecture

Floor 1 : Terrsa Hall



09:00 to 10:00

*Linstead Career Award for Lifetime Achievements in the field of Phthalocyanine Chemistry Lecture*

*Introduced by Tomàs Torres*

**José H. Zagal** (*University of Santiago de Chile, Santiago, Chile*), Laura Scarpetta-Pizo, Wolfgang Schmickler  
Bio-inspired Fe porphyrins as the best catalysis of the reduction of O<sub>2</sub> contradict the Sabatier-Principle volcano correlation of activity versus MN<sub>4</sub>-O<sub>2</sub> binding energy

10:00 to 10:30

Coffee Break

## 2. Subphthalocyanine and related contracted porphyrinoids: Advances in their chemistry and applications

Floor 1 : Terrsa Hall

*Chaired by Timothy Bender, M. Salomé Rodríguez-Morgade & Soji Shimizu*

10:30 to 10:50 *Invited Lecture*

**Ravikanth Mangalampalli** (*Department of Chemistry, IIT Bombay, Powai, Mumbai 400076, India*)  
The Chemistry Of Newly Emerging Contracted 14  $\pi$  Meso-Tetraaryl Triphyrin(2.1.1)s

10:50 to 11:10 *Invited Lecture*

**Satoru Hiroto** (*Graduate School of Human and Environmental Studies, Kyoto University, Kyoto, Japan*),  
Moeko Chujo, Mana Wakita, Masahiko Fukumoto  
Azahelicenes and triazahelicenes as Emerging Platforms for Low Band Gap Materials

11:10 to 11:30 *Invited Lecture*

**M. Victoria Martínez-Díaz** (*Universidad Autónoma de Madrid, Madrid, Spain*), Tomás Torres,  
Lara Tejerina, Giulia Lavarda, María Lahoz, Rodrigo San Miguel  
New Challenges in Chiral Subphthalocyanines

11:30 to 11:50 *Invited Lecture*

**Gokulnath Sabapathi** (*Indian Institute of Science Education and Research (IISER) Thiruvananthapuram, Thiruvananthapuram, India*)  
Persistent vs. Induced Helical Chirality in bis-Subporphyrin-like Boron(III) Complexes and Anthracene Linked Twisted Macrocycles

11:50 to 12:10 *Invited Lecture*

**Yasuhide Inokuma** (*Division of Applied Chemistry, Faculty of Engineering, Hokkaido University, Sapporo, Japan*)

Superacid-Resistant Macrocyclic BODIPYs Inspired by Boron–Calix[3]pyrrole

12:10 to 12:30 *Invited Lecture*

**Gema de la Torre** (*Universidad Autónoma de Madrid, Madrid, Spain*), Ainhoa Salazar, David Sánchez-Fernández, Patricia Calvo

Chiral Self-Sorting in Subphthalocyanine-Based Metallosupramolecular Cages

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## 10. Highly conjugated porphyrinoids

Floor 3 : Large Conference Room A + B

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*Chaired by Tetsuo Okujima, Masayoshi Takase & Jishan Wu*

10:30 to 10:50 *Invited Lecture*

**Naoki Aratani** (*Nara Institute of Science and Technology, Ikoma, Japan*), Hirofumi Morimoto, Hiroko Yamada

Novel Synthetic Method and  $22\pi$  Global Annulene Aromaticity of Photochromic Dibenzodimethyldihydropyrenes

10:50 to 11:10 *Invited Lecture*

**Daiki Kuzuhara** (*Iwate University, Morioka, Japan*), Ryoma Matsuura, Anji Ohta

Syntheses of Expanded Porphyrins from o-Diarylbenzenes and 3,4-Diarylmaleimides

11:10 to 11:30 *Invited Lecture*

**Hiromitsu Maeda** (*Ritsumeikan University, Kusatsu, Japan*)

Porphyrin-based ion-pairing assembly

11:30 to 11:50 *Invited Lecture*

**Mitsuaki Yamauchi** (*Institute for Chemical Research(ICR), Kyoto University, Uji, Japan*)

Hydrogen-Bonded Tetrabenzoporphyrin Thin Films: Evaluation of Assembly Structure and Transistor Properties

## 17. Self-assembled systems and materials

Floor 3 : Large Conference Room C



Chaired by Giovanni Bottari, Athanassios Coutsolelos & David Gonzalez-Rodriguez

10:30 to 10:50 Invited Lecture

**Xavi Ribas** (University of Girona, Girona, Spain)

Multipurpose Porphyrin-Based Supramolecular Nanocapsules for Chemistry at the Confined Space

10:50 to 11:10 Invited Lecture

**Shiki Yagai** (Chiba University, Chiba, Japan)

Curvature-Emergent Supramolecular Polymerization of Chlorophylls and Porphyrins

11:10 to 11:30 Invited Lecture

**Eduardo Anaya-Plaza** (Department of Bioproducts and Biosystems, School of Chemical Engineering, Aalto University, Espoo, Finland), Alba Sanz-Velasco

Multifaceted Exploration of Aggregation in Water: from Self-Assembly to Liquid-Liquid Phase Separation

11:30 to 11:50 Invited Lecture

**Kazunori Sugiyasu** (Kyoto University, Kyoto, Japan)

Precision synthesis of porphyrin-based supramolecular polymers

11:50 to 12:10 Invited Lecture

**Miguel García-Iglesias** (Universidad de Cantabria, QUIPRE department, Santander, Spain), Víctor Rodríguez, David González-Rodríguez, Martijn Kemerink

Self-Assembled Polar Multifunctional Materials

12:10 to 12:30 Invited Lecture

**Takashi Nakanishi** (National Institute for Materials Science, Tsukuba, Japan)

$\pi$ -Gel electrets toward deformable vibration sensors

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## 23. Redox chemistry and electrochemistry of porphyrinoids and oligopyrroles

Floor 2 : Seminar Rooms 1 + 2

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*Chaired by Gabriel Canard, Charles Devillers & Masatoshi Ishida*

*10:30 to 10:50 Invited Lecture*

**Ken-ichi Yamashita** (*Department of Chemistry, Graduate School of Science, The University of Osaka, Osaka, Japan*), Haruna Sugimura, Kana Nakajima

Redox Chemistry of [beta]-Tetracyanoporphyrins: From Free-Base Isophlorins to Lanthanide Double-Decker Complexes

*10:50 to 11:10 Invited Lecture*

**Élodie Anxolabéhère-Mallart** (*Sorbonne Université, Institut Parisien de Chimie Moléculaire, CNRS UMR 8232, Paris, France*), Julien Bonin, Claire Fave, Marc Robert

O<sub>2</sub> activation and CO<sub>2</sub> reduction using Mn and Fe porphyrins: Operando spectroelectrochemical mechanistic studies

*11:10 to 11:30 Invited Lecture*

**Nicolas Boscher** (*Luxembourg Institute of Science and Technology, Esch-sur-Alzette, Luxembourg*)

Fused MetalloPorphyrins Thin Films for the Heterogeneous Electrocatalytic Conversion of Small and Low Energy Molecules into Advanced Chemicals

*11:30 to 11:50 Invited Lecture*

**Philipp Gotico** (*French Alternative Energies and Atomic Energy Commission, Gif-sur-Yvette, France*), Adrien Smith, Régis Guillot, Stéphane Le Gac, Winfried Leibl, Ally Aukauloo, Bernard Boitrel, Marie Sircoglou, Zakaria Halime

Turning Repulsion into Reactivity: A Dynamic Carboxylate Relay in Iron Porphyrin CO<sub>2</sub> Reduction

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## 29. Health and sustainability

Floor 2 : Medium Conference Room

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Chaired by Hiroaki Kitagishi & Antonino Mazzaglia

10:30 to 10:50 Invited Lecture

**David B. Amabilino** (*Barcelona Materials Science Institute (ICMAB-CSIC), Bellaterra, Spain*),  
Kavya Anguluri, Buntty Sharma, Saman Bagherpour, Ana Calpena, Lyda Halbaut, Gurpreet Kaur,  
Ganga Ram Chaudhary, Lluisa Perez-Garcia

Antimicrobial behaviour of supramolecular gels containing a variety of porphyrins

10:50 to 11:10 Invited Lecture

**Anzhela Galstyan** (*University of Duisburg Essen, Essen, Germany*)

Designing Photoactivity: Modulating Antimicrobial Photodynamic Effects through  
Polymer–Photosensitizer Interactions

11:10 to 11:30 Invited Lecture

**M Amparo F Faustino** (*University of Aveiro, Aveiro, Portugal*), Ana S.M. Joaquineto, Cátia Vieira,  
Cristina J. Dias, Carlos J. P. Monteiro, Maria Bartolomeu, Nuno M. M. Moura

Designing Porphyrin Derivatives for Antimicrobial PDT

11:30 to 11:50 Invited Lecture

**Dalip Kumar** (*Birla Institute of Technology and Science, Pilani, Pilani, India*)

Efficient Synthesis of Heterocycle-Fused Porphyrins with Enhanced NIR Absorption and  
Singlet Oxygen Generation

...continued after lunch

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## 37. Heme enzymes: Structure and function

Floor 3 : Conference Room 2

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Chaired by Shun Hirota & Syun-Ru Yeh

10:30 to 10:50 Invited Lecture

**John Hackett** (*Florida International University, Miami, USA*), Kamila Stokowa-Sołtys, Francisco Zarate-Perez  
Applications of small-angle scattering to delineate P450-membrane and redox partner interactions

10:50 to 11:10 Invited Lecture

**Izumi Ishigami** (*Biochemistry / Albert Einstein College of Medicine, Bronx, USA*), Gabriella Angiulli,  
Joshua H. Mendez, Syun-ru Yeh, Denis L. Rousseau

Cryo-EM structure of monomeric bovine cytochrome c oxidase in a lipid nanodisc

11:10 to 11:30 Invited Lecture

**Koichiro Ishimori** (*Hokkaido University, Sapporo, Japan*)

Conformational Gating Mechanism in Electron Transfer Reaction from Cytochrome c to  
Cytochrome c Oxidase

11:30 to 11:50 *Invited Lecture*

**Minoru Kubo** (*University of Hyogo, Ako-gun, Japan*)

Enhanced proton pumping of cytochrome c oxidase in the presence of Higd1A

11:50 to 12:10 *Invited Lecture*

**Takehiko Tosha** (*Graduate School of Science, University of Hyogo, Hyogo, Japan*)

Effects of Dimerization on the Structure and Function of Membrane-bound Nitric Oxide Reductases

12:10 to 12:30 *Invited Lecture*

**Hajime Hirao** (*School of Medicine, The Chinese University of Hong Kong, Shenzhen, China*)

Computational Studies on Cytochrome P450: Reactivity in Drug Metabolism and Bonding Characteristics of Key Intermediates

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## 40. Optical spectroscopy and photochemistry

Floor 3 : Conference Room D

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*Chaired by Kazuyuki Ishii, Mikalai Kruk, John Mack, Zhen Shen & Sergei Vinogradov*

10:30 to 10:50 *Invited Lecture*

**Dongho Kim** (*Yonsei University, Seoul, Korea*)

Interplay between  $\pi$ -Electronic Circuits and Molecular Aromaticity in Fully Conjugated Asymmetric Multicyclic Macrocycles

10:50 to 11:10 *Invited Lecture*

**Hidemitsu Uno** (*Ehime University, Matsuyama, Japan*)

Benzene-Fusion of Porphyrinoids. Synthesis and Effects on Their Optical Properties

11:10 to 11:30 *Invited Lecture*

**Naoto Ishikawa** (*The University of Osaka, Osaka, Japan*)

Exploring the  $4f$ - $\pi$  Coupling in Lanthanide Porphyrinoids: Insights from Magneto-Optical Spectroscopy

*...continued after lunch*

## Thursday, 2 July - Afternoon

### 2. Subphthalocyanine and related contracted porphyrinoids: Advances in their chemistry and applications

Floor 1 : Terrsa Hall

Chaired by Timothy Bender, M. Salomé Rodríguez-Morgade & Soji Shimizu

14:00 to 14:20 Invited Lecture

**Dan Pantos** (*University of Bath, Bath, United Kingdom*), Oliver Nedderman, Tiberiu M. Gianga, Giuliano Siligardi

Subphthalocyanines, Phthalocyanines and Naphthalocyanines in Chiral Emissive Thin Films

14:20 to 14:40 Invited Lecture

**M. Salomé Rodríguez-Morgade** (*Departamento de Química Orgánica, Universidad Autónoma de Madrid, Madrid, Spain*), Gema Pérez de Bustos, Julia Arnanz, Tomás Torres, Inés Corral, Alberto Concellón

Supramolecular Assemblies and Devices based on Subporphyrazines

14:40 to 15:00 Invited Lecture

**David González Rodríguez** (*Universidad Autónoma de Madrid, Madrid, Spain*)

Investigating Watson-Crick Hydrogen-bonding using BODIPY Dye Probes

15:00 to 15:20 Invited Lecture

**Rüdiger Faust** (*University of Kassel, Institute for Chemistry, Kassel, Germany*), Anika Petersen, Lorena Vogt

Remote Photosensitization with SubPc/BOIMPY-Pyridone Dyads

15:20 to 15:40 Invited Lecture

**Timothy Bender** (*University of Toronto, Department of Chemical Engineering and Applied Chemistry, Toronto, Canada*), Jennifer Tong, Andrew Jo, Keerthikah Jegatheesan

Progression on the Development of Boron Subphthalocyanines, Subnaphthalocyanines and Hybrids for their Applications and on the Sustainability Side.

15:40 to 16:00 Invited Lecture

**Daigo Miyajima** (*School of Science and Engineering, The Chinese University of Hong Kong, Shenzhen, China*)

A Subphthalocyanine-Based Platform for Probing Chirality and Polarity Effects

16:00 to 16:30

Coffee Break

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### 3. Corroles

Floor 1 : Terrsa Hall

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*Chaired by Daniel Gryko, Sara Nardis, Roberto Paolesse & Takayuki Tanaka*

*16:30 to 16:50 Invited Lecture*

**Martin Bröring** (*IAAC, TU Braunschweig, Braunschweig, Germany*)

Main Group Corroles

*16:50 to 17:10 Invited Lecture*

**Claude P. Gros** (*Université Bourgogne Europe, ICMUB - UMR CNRS 6302, Dijon, France*),  
Shivani Kessavdjee-Djouma, Nicolas Desbois, Haziq Naseer Khan, Tomas Moravec,  
Nguyet-Thanh Ha Duong

Plant virus-corrole hybrids as bio-inspired antiviral nanomaterials

*17:10 to 17:30 Invited Lecture*

**Zeev Gross** (*Technion- Israel Institute of Technology, 3200003, Israel*)

Minimally Substituted Corroles for Testing Structural and Electronic Effects on Fundamental Properties and Electrocatalysis

*17:30 to 17:50 Invited Lecture*

**Daniel Gryko** (*Institute of Organic Chemistry Polish Academy of Sciences, Warsaw, Poland*),  
Beata Koszarna, Łukasz Kielesiński

Novel  $\pi$ -expanded corroles

*17:50 to 18:10 Invited Lecture*

**Sankar Jeyaraman** (*Indian Institute of Science Education and Research (IISER) Bhopal, Bhopal, India*),  
Baranya Kanungo, Senthamizh Selven

Metal Complexes of Modified Corroles as Novel Electronic Materials

*18:10 to 18:30 Invited Lecture*

**Abhik Ghosh** (*UiT The Arctic University of Norway, Tromsø, Norway*)

Predicting NIR Phosphorescent Emission and Singlet Oxygen Sensitization by 5d  
Metalloporphyrins and Metallocorroles

*...continued Friday morning*

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## 11. Porphycenes

Floor 3 : Large Conference Room A + B

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Chaired by Arkadiusz Listkowski, Toshikazu Ono & Jacek Waluk

14:00 to 14:20 Invited Lecture

**Jacek Waluk** (*Institute of Physical Chemistry, Polish Academy of Sciences, Warsaw, Poland*),  
Arkadiusz Listkowski, Agnieszka Gajewska, Michał Kijak, Idaresit Mbakara, Agnieszka Jamrozik,  
Aleksander Gorski, Barbara Golec

Porphyrcenes: experimental and theoretical studies of photophysics, photostability, and single molecule detectability

14:20 to 14:40 Invited Lecture

**Yasuyuki Yamada** (*Department of Chemistry, Nagoya University, Nagoya, Japan*), Kentaro Tanaka  
Structure-Reactivity Relationship Studies of Monocationic  $\mu$ -Nitrido-Bridged Iron  
Porphyrinoid Dimers

14:40 to 15:00 Invited Lecture

**Yair Litman** (*Max Planck Institute for Polymer Research, Mainz, Germany*)

Quantum Dynamics of Hydrogen Transfer in Porphyrcene: From Gas Phase to Adsorption on  
Metal Surfaces

15:00 to 15:20 Invited Lecture

**Alberto Bossi** (*Istituto di Scienze e Tecnologie Chimiche "G. Natta", CNR-SCITEC, MILANO, Italy*),  
Marta Penconi, Jacek Waluk, Arkadiusz Listkowski, Agnieszka Gajewska, Aurora Antonello,  
Gianlorenzo Bussetti

Porphyrcene Thin Films as Optically Reversible Chemosensors in 2D and 3D Architectures

15:20 to 15:40 Invited Lecture

**Pradeepta Panda** (*School of Chemistry, University of Hyderabad, Hyderabad, India*), Anup Rana,  
Nagamaiah J, Sameeta Sahoo, Narmada K, Jiji K, Raghuvaran R, Pankaj Kumari, Arnab Dutta, Akshat Bisht  
Design and synthesis of 3,6,13,16-substituted porphyrcenes & complexation studies of  $\beta,\beta'$ -  
bipyrrole fused porphyrcenes

15:40 to 16:00 Invited Lecture

**Arkadiusz Listkowski** (*Faculty of Mathematics and Natural Sciences, College of Science, Cardinal Stefan  
Wyszyński University, Warsaw, Poland*), Weronika Bodek, Magdalena Piechocka, Aleksandra Krogulska,  
Michał Kijak, Jacek Waluk

Porphyrcene and Corrrphyrcene: Useful Objects for Intramolecular Hydrogen Bond  
Transfer Studies

16:00 to 16:30

Coffee Break

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## 14. Advances in the chemistry of porphyrazines (azaporphyrins) and their analogues

Floor 3 : Large Conference Room A + B

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*Chaired by Pavel Stuzhin*

*16:30 to 16:50 Invited Lecture*

**Nagao Kobayashi** (*Department of Chemistry/Ochanomizu University, Bunkyo-ku, Japan*), Yusuke Okada, Hirofusa Shirai

Characteristics of Mononuclear High-Spin Ferric Phthalocyanines: Comparison with Ferric Porphyrins

*16:50 to 17:10 Invited Lecture*

**Alexander Sorokin** (*IRCELYON, CNRS, Villeurbanne, France*), Andrey Kroitor, Alexander Dmitrienko, Alexander Martynov, Yulia Gorbunova

Chiral Ruthenium Phthalocyanine for Highly Efficient Dia- and Enantioselective Catalysis

*17:10 to 17:30 Invited Lecture*

**Sandra Belviso** (*Università della Basilicata, Potenza, Italy*), Giuseppe Larotonda, Francesco Pizzoli, Gabriele Magna, Roberto Paolesse

Thioalkyl Porphyrazines: from Materials to Catalysis and Sensing

*17:30 to 17:50 Invited Lecture*

**Dmitri Konarev** (*Federal research center of problems of chemical physics and medicinal chemistry RAS, Chernogolovka, Russia*), Maxim Faraonov, Nikita Romanenko, Dmitriy Nazarov, Akihiro Otsuka

Magnetic and Optical Properties of Anionic Metallomacrocycles.

*17:50 to 18:10 Invited Lecture*

**Pavel A. Stuzhin** (*Ivanovo State University of Chemistry and Technology, Ivanovo, Russia*), Dmitriy A. Lazovskii, Alina M. Fazlyeva, Ivan A. Skvortsov

Hydrolytic Scission of (Sub)porphyrazine Macrocycle as a New Approach to Diazatripyrines

*18:10 to 18:30*

**Svetlana Ivanova** (*Ivanovo State University of Chemistry and Technology, Ivanovo, Russia*), Ekaterina Rychikhina, Pavel Stuzhin

Silicon(IV) Porphyrazines and Corrolazines

*...continued Friday morning*

## 17. Self-assembled systems and materials

Floor 3 : Large Conference Room C



Chaired by Giovanni Bottari, Athanassios Coutsolelos & David Gonzalez-Rodriguez

14:00 to 14:20 Invited Lecture

**Chris Fry** (*Center for Nanoscale Materials, Argonne National Laboratory, Lemont, USA*), Jesse Prelesnik, Henry Chan

Computationally Assisted Design of Heme Binding Self-Assembled Peptide Materials

14:20 to 14:40 Invited Lecture

**Lluïsa Pérez-García** (*Universitat de Barcelona, Barcelona, Spain*), Pascual López-Algarra, Saman Bagherpour, Alba Pereda-Velarde, Silvia Gines, Patricia Vázquez, Marta Duch, Juan Pablo Aguil, José Antonio Plaza, Mariano Redondo-Horcajo, Teresa Suárez

Self-Assembly and Supramolecular Design of Functional Nanostructured Materials for Biological Interfacing

14:40 to 15:00 Invited Lecture

**Amar Flood** (*Indiana University, Bloomington, USA*)

Anchor-Driven Assembly

15:00 to 15:20 Invited Lecture

**Alberto de Juan** (*Universidad Autónoma de Madrid, Madrid, Spain*), A. Priscila Gia, Beatriz Torres-Calvo, David González-Rodríguez

Confined by Porphyrins: Molecular Cages with Exceptional Cooperative Host–Guest Interactions

15:20 to 15:40 Invited Lecture

**Valérie Heitz** (*Institut de Chimie de Strasbourg, Strasbourg, France*)

Switchable Systems Incorporating Porphyrins

15:40 to 16:00 Invited Lecture

**Jean Weiss** (*Institut de Chimie de Strasbourg, Strasbourg, France*)

A 35-year journey in strapped porphyrin self-assembly

16:00 to 16:30

Coffee Break

16:30 to 16:50 Invited Lecture

**Joe Otsuki** (*Nihon University, Tokyo, Japan*)

Face-to-Face Porphyrin Dimers via Coordination and Dynamic Covalent Bonding

16:50 to 17:10 Invited Lecture

**Juan R. Granja** (*Universidade de Santiago de Compostela, Santiago de Compostela, Spain*), Alfonso Bayón, Alba Torrón, Marcos Vilela, Martín Vázquez

Self-Assembling Cyclic Peptides: Fibers and Nanosheets

17:10 to 17:30 *Invited Lecture*

**Thomas A. Jung** (*Paul Scherrer Institute, Villigen PSI, Switzerland*), Jan Girovsky, Milos Baljovic, Sylwia Nowakowska, Jan Nowakowski, Aneliia Waeckerlin, S. Fatemeh Mousavi, Christian Waeckerlin, Aisha Ahsan, Jan Dreiser, Jorge Lobo Checa, Meike Stoehr, Lutz H. Gade, Silvio Decurtins, Shi-Xia Liu, Peter M. Oppeneer, Kartick Tarafder, Nirmalya Ballav

A surface scientist's view into the key mechanisms of porphyrins and phthalocyanines and their chemical, electronic, and spin-tronic action in a broad range of applications

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## 20. MOF and COF

Floor 3 : Large Conference Room C

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*Chaired by Shengqian Ma & Takashi Uemura*

14:00 to 14:20 *Invited Lecture*

**Jier Huang** (*Boston College, Chestnut Hill, USA*), Liangji Chen, James Wilkes

Probing Charge Transport and Separation Mechanism in Porous Crystalline Frameworks

14:20 to 14:40 *Invited Lecture*

**Mio Kondo** (*Department of Chemistry, School of Science, Institute of Science Tokyo, Tokyo, Japan*)

Molecular Assembly for Small Molecule Conversions

14:40 to 15:00 *Invited Lecture*

**Shengqian Ma** (*University of North Texas, Denton, USA*)

Design and Application of Porous Porphyrin-Derivative Frameworks

15:00 to 15:20 *Invited Lecture*

**Daisuke Tanaka** (*Department of Chemistry, School of Science, Kwansei Gakuin University, Sanda, Japan*)

Electrolytic Synthesis of Porphyrinic Zr Metal-Organic Frameworks with Selective Crystal Topologies

15:20 to 15:40 *Invited Lecture*

**Takashi Uemura** (*The University of Tokyo, Tokyo, Japan*)

Reticular Frameworks for Macromolecular Science and Technology

15:40 to 16:00 *Invited Lecture*

**Michito Yoshizawa** (*Institute of Science Tokyo, Yokohama Tokyo, Japan*)

Aromatic Micelles with Host Functions toward Aromatic Polymers

16:00 to 16:30

Coffee Break

16:30 to 16:50

**Lior Elbaz** (*Lior Elbaz, Bar Ilan University, Ramat-Gan, Israel*)

Design and Application of Aerogel-based Catalysts for Oxygen Reduction Reaction in Fuel Cells

*continued over the page*

16:50 to 17:10

**Sébastien Clément** (*ICGM - UMR 5253 - Dpt DI, Montpellier, France*), Julie-Lisa Malaval, Michel Granier, Sébastien Richeter

Porphyrin-based conjugated polyHIPEs for photocatalytic degradation of organic pollutants

17:10 to 17:20

**Amr Nada** (*Luxembourg Institute of Science and Technology, Esch-sur-Alzette, Luxembourg*), Nicolas Boscher, Deepak Bansal

Gas-Phase Synthesis of Porphyrin-based Donor-Acceptor Covalent Organic Framework Thin Films: Electrocatalysts for OER and ORR

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## 21. Catalysis for sustainability

Floor 2 : Seminar Rooms 1 + 2

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Chaired by *Tadashi Ema, Emma Gallo & Xianhong Wang*

14:00 to 14:20 *Invited Lecture*

**Peter Zhang** (*Boston College, Chestnut Hill, USA*)

Open-Shell Metalloporphyrins as Metalloradical Catalysts for Homolytic Radical Reactions

14:20 to 14:40 *Invited Lecture*

**Emma Gallo** (*Department of Chemistry, Milan, Italy*), Matteo Cavalleri, Lucia Invernizzi, Caterina Damiano

Carbene Transfer Reactions in Aqueous Environment Promoted by Heterogenized Iron Porphyrins

14:40 to 15:00 *Invited Lecture*

**Takehiko Yoshimitsu** (*Division of Pharmaceutical Sciences, Graduate School of Medicine, Dentistry, and Pharmaceutical Sciences, Okayama University, Okayama, Japan*)

Visible-Light-Driven Zn(II) porphyrin Catalysis in Natural Product Synthesis

15:00 to 15:20 *Invited Lecture*

**Ivana Ivanovic-Burmazovic** (*Department of Chemistry, LMU, Munich, Germany*)

Secondary-Sphere-Controlled Metalloporphyrins for Activation of Small Molecules of Energy, Environmental, and Biological Relevance

15:20 to 15:40 *Invited Lecture*

**Shunjie Liu** (*Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, Changchun, China*)

Efficient Synthesis of CO<sub>2</sub>-Polyols by Polymeric Aluminum Porphyrin Catalysts

15:40 to 16:00 *Invited Lecture*

**Xianhong Wang** (*Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, Changchun, China*)

Sustainable Pressure-Sensitive Adhesives Derived from CO<sub>2</sub>-Based Polymers

16:00 to 16:30

Coffee Break

16:30 to 16:50 *Invited Lecture*

**Akiharu Satake** (*Tokyo University of Science, Shinjuku-ku, Japan*), Leonardo Hayato Foianesi-Takeshige  
Directly Linked 2,2'-Bipyridine–Porphyrin Architectures: Molecular Platforms for  
Multinuclear Assembly

16:50 to 17:10 *Invited Lecture*

**Hiroaki Kotani** (*University of Tsukuba, Tsukuba, Ibaraki, Japan*), Takahiko Kojima  
Photocatalytic formation of hydrogen (H<sub>2</sub>) and hydrogen peroxide (H<sub>2</sub>O<sub>2</sub>) catalyzed by  
nonplanar porphyrins

17:10 to 17:30 *Invited Lecture*

**Francesca Tessore** (*Department of Chemistry, University of Milan, Milan, Italy*), Ilaria Barlocco,  
Gabriele Di Carlo, Manuel Minnucci, Elisa Pianta, Alberto Villa  
Rhodium Porphyrin-Based Catalysts for Ammonia Borane Hydrolytic Dehydrogenation

17:30 to 17:50 *Invited Lecture*

**Tadashi Ema** (*Okayama University, Okayama, Japan*)  
Synthesis of CO<sub>2</sub>-Based Polymers Using Bifunctional Porphyrin Catalysts

17:50 to 18:10

**Ulrike Kramm** (*TU Darmstadt, Department of Chemistry, Darmstadt, Germany*), Kosovare Zullufi,  
Anusree Ghosh, Nicole Segura-Salas, Lingmei Ni, Herbert Plenio  
Comparing FeN<sub>4</sub> motifs with either pyridinic or pyrrolic coordination for the activation  
of oxygen

18:10 to 18:30

**Dino Villagran** (*Department of Chemistry and Biochemistry, The University of Texas at El Paso, El Paso, USA*), Neidy Ocuane, Alexandria Castillo, Rebeca Favela, Nasim Jafari  
Active-Site Identity and Mechanistic Pathways in Porphyrin-Based Electrocatalysts for  
Water Splitting

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## 29. Health and sustainability

Floor 2 : Medium Conference Room

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*Chaired by Hiroaki Kitagishi & Antonino Mazzaglia*

*14:00 to 14:20 Invited Lecture*

**Teruyuki Komatsu** (*Chuo University, Tokyo, Japan*)

Biocompatible Polymer-Conjugated Hemoglobins: Artificial O<sub>2</sub> Carriers as Red Blood Cell Substitutes

*14:20 to 14:40 Invited Lecture*

**Mariachiara Trapani** (*CNR ISMN Istituto per lo Studio dei Materiali Nanostrutturati, URT Messina, Messina, Italy*), Maria Angela Castriciano, Massimiliano Cordaro, Antonino Mazzaglia, Andrea Romeo, Roberto Zagami, Luigi Monsù Scolaro

Exploiting chromophores and inorganic nanomaterials in functional nanohybrids

*14:40 to 15:00 Invited Lecture*

**Yuki Ohishi** (*University of Toyama, Toyama, Japan*), Taiki Ichikawa, Masahiko Inouye

Highly Water-Soluble and Durable Rotaxane-Type Porphyrin Dyes Used as Photosensitizers for Photodynamic Therapy

*15:00 to 15:20 Invited Lecture*

**Antonino Mazzaglia** (*CNR ISMN, Messina, Italy*), Giuseppe Nocito, Giuseppe Mistretta, Mariachiara Trapani, Simona Salerno, Roberto Zagami, Luigi Monsù Scolaro

Biomaterials based on Porphyrinoid/Cyclodextrin Assemblies: from Hybrids to Composites with Photoantimicrobial Action

*15:20 to 15:40 Invited Lecture*

**Hiroaki Kitagishi** (*Doshisha University, Kyotanabe, Japan*)

Synthesis and Biological Application of Artificial Hemoglobin/Myoglobin

*15:40 to 16:00 Invited Lecture*

**Fabienne Dumoulin** (*Acibadem University, Istanbul, Turkey*)

Phthalocyanines with improved properties for photodynamic applications

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## 30. Functional chromophores for sensing and imaging

Floor 2 : Medium Conference Room

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*Chaired by Anzhela Galstyan, Jonathan Hill & Veronika Novakova*

*16:30 to 16:50 Invited Lecture*

**Luis Arnaut** (*University of Coimbra, Coimbra, Portugal*)

Bacteriochlorins and Phthalocyanines in Photoacoustic Tomography

*16:50 to 17:10 Invited Lecture*

**Sergey Borisov** (*Institute of Analytical Chemistry and Food Chemistry, Graz University of Technology, Graz, Austria*), Ruslan Dmitriev, Angela Debruyne, Irina Okkelman, Giulia Ceriotti, Georg Schwendt, Andreas Matijevic, Torsten Mayr, Michael Kühl

Sensing and Imaging with Red to NIR Emitting Metalloporphyrin and Aza-BODIPY Dyes

*17:10 to 17:30 Invited Lecture*

**Jan Labuta** (*National Institute for Materials Science (NIMS), Tsukuba, Japan*)

NMR Detection of Enantiomeric Excess Using Symmetric Porphyrins as Prochiral Solvating Agents (pro-CSAs)

*17:30 to 17:50 Invited Lecture*

**Juan Chen** (*Princess Margaret Cancer Centre, Canada*), Gang Zheng

Advanced Porphyrin Nanoparticles for Cancer Theranostics

*17:50 to 18:10 Invited Lecture*

**Evelyn Y. Xue** (*The Chinese University of Hong Kong, Hong Kong, China*), Dennis K. P. Ng

Development of Supramolecular and Bioorthogonal Approaches to Overcome the Challenges of Photodynamic Therapy

*18:10 to 18:30*

**Dmitri Papkovsky** (*University College Cork, Cork, Ireland*)

Phosphorescent porphyrin (nano)probes for sensing, imaging and cell analysis

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## 34. Heme proteins and synthetic analogues

Floor 3 : Conference Room 2

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*Chaired by John Dawson & Takashi Hayashi*

*16:30 to 16:50 Invited Lecture*

**Sukyeong Kim** (*Graduate School of Science, Nagoya University, Nagoya, Japan*), Yuichiro Aiba, Hiroshi Sugimoto, Osami Shoji

Construction of Artificial Hemoprotein Assemblies by Rational Design of Porphyrin Oligomers

*16:50 to 17:10 Invited Lecture*

**Takeshi Uchida** (*Hokkaido University, Sapporo, Japan*), Marika Yamaguchi, Koichiro Ishimori  
Dye-Degradation Reaction by Cytochrome P460 from *Nitrosomonas europaea*

*17:10 to 17:30 Invited Lecture*

**Tsunehiko Higuchi** (*Nagoya City University, Nagoya, Japan*), Yuto Tsuzuki, Yosuke Hisamatsu, Naoki Umezawa, Min Liu, Kazuko Saeki, Takehiko Yokomizo

In vitro and In Cell Conversion of Prostaglandin H<sub>2</sub> into A Bioactive Fatty Acid Catalyzed by Cytochrome P450 Mimics

*17:30 to 17:50 Invited Lecture*

**Rebecca Donegan** (*Barnard College, New York, USA*), Grace Wang, Jessica Samudio, Hadia Aftab, Lily Le, Fereshteh Zandakrimi

Export of Coproporphyrin III and its Role in Heme Homeostasis in Mycobacteria

*17:50 to 18:10 Invited Lecture*

**Hannah Palomino** (*Northwestern University, Evanston, USA*), Aaron Shoemaker, Sabrina El-Gamal, Cybele Lemuh Njimoh, Nicolai Lehnert, Bryan Hunter, Karl Scheidt, Nathan Gianneschi

Enzyme-like Polymers: A Synthetic Approach to Mimicking Multimeric Hemoproteins

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## 37. Heme enzymes: Structure and function

Floor 3 : Conference Room 2

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*Chaired by Shun Hirota & Syun-Ru Yeh*

*14:00 to 14:20 Invited Lecture*

**Tsuyoshi Mashima** (*Nara Institute of Science and Technology, Ikoma, Japan*), Haruki Onishi, Yuya Tanaka, Naoya Kobayashi, Shun Hirota

Construction of stable myoglobin oligomers by designed 3D domain swapping

*14:20 to 14:40 Invited Lecture*

**Giulietta Smulevich** (*Chemistry, Sesto Fiorentino, Firenze, Italy*), Federico Sebastiani, Laura Cesati, Mirco Meglioli, Marco Borsari, Gianantonio Battistuzzi

Influence of the distal His and the intramolecular disulfide Cys46-Cys55 bridge on the sulfide binding to human neuroglobin

14:40 to 15:00 *Invited Lecture*

**Sachiko Yanagisawa** (*University of Hyogo, Ako-gun, Hyogo, Japan*)

Temperature dependence of substrate inhibition in human Indoleamine 2,3-dioxygenase1

15:00 to 15:20 *Invited Lecture*

**Mario Rivera** (*Department of Chemistry, Louisiana State University, Baton Rouge, USA*)

The Mobilization of Iron Stored in Bacterioferritin Requires Heme and is Indispensable for Metabolic Homeostasis in Bacteria

15:20 to 15:40 *Invited Lecture*

**George Richter-Addo** (*Chemistry and Biochemistry, Norman, USA*), Tsitsi Kapfunde, Jennifer Londono-Salazar, Chance Lander, Guan Ye, Yong Zhang, Yihan Shao

Insertion of Nitric Oxide Into a Metalloporphyrin-Carbon Bond

16:00 to 16:30

Coffee Break

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## 40. Optical spectroscopy and photochemistry

Floor 3 : Conference Room D

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*Chaired by Kazuyuki Ishii, Mikalai Kruk, John Mack, Zhen Shen & Sergei Vinogradov*

14:00 to 14:20 *Invited Lecture*

**Dage Sundholm** (*Department of Chemistry/University of Helsinki, Helsinki, Finland*), Daniel Blasco, Maria Dimitrova, Rinat T. Nasibullin, Qian Wang

Magnetically Induced Current Densities and Nuclear Magnetic Shielding Tensors

14:20 to 14:40 *Invited Lecture*

**Atsuya Muranaka** (*RIKEN, Wako, Japan*), Yu Hatakenaka, Naoyuki Toriumi, Hiroyuki Koshino, Masanobu Uchiyama

Remarkable Isomeric Effects on Near-Infrared Absorption and Aromaticity of a Core-Modified Phthalocyanine Incorporating Two Phenolic Groups

14:40 to 15:00 *Invited Lecture*

**Nobuhiro Yanai** (*The University of Tokyo, Tokyo, Japan*)

Photo-Excited Porphyrins as a Platform for Spin Hyperpolarization: From Magnetic Resonance to Quantum Sensing

15:00 to 15:20 *Invited Lecture*

**Mikhail Filatov** (*Technological University Dublin, Dublin, Ireland*)

Switchable Formation of Triplet States in BODIPY via Charge Transfer: Toward Next-Generation Photosensitizers

15:20 to 15:40 *Invited Lecture*

**Yusuke Kuramochi** (*Kindai University, Higashi-Osaka, Japan*)

Mechanistic Role of the Excited Triplet State of Zn(II) Porphyrin in Photocatalytic Carbon Dioxide Reduction

16:00 to 16:30

Coffee Break

16:30 to 16:50 *Invited Lecture*

**Kazuyuki Ishii** (*Institute of Industrial Science, The University of Tokyo, Tokyo, Japan*)

Direct Observation of the S<sub>0</sub> → T<sub>n</sub> Transitions in Porphyrin Complexes, Evidenced by Magnetic Circular Dichroism

16:50 to 17:10 *Invited Lecture*

**Victor N. Nemykin** (*University of Tennessee - Knoxville, Knoxville, USA*)

Elucidation of the Electronic Structure of Modified Porphyrins and Their Analogues Using Experimental and Theoretical Methods

17:10 to 17:30 *Invited Lecture*

**Hong Wang** (*Chemistry/University of North Texas, Denton, USA*), Ting Han, Nikhil Kumar, Kendra Hamilton, Yuanxi Wang, Jens Neu, Saad Shiakh

Covalent Organic Frameworks Based on  $\pi$ -Extended Porphyrins: Synthesis and Characterization

17:30 to 17:50 *Invited Lecture*

**Ka-Leung Wong** (*City University of Hong Kong, Hong Kong, China*)

Bimetallic porphyrin PET radiotracers for Low-Dose MRI contrast enhancement

17:50 to 18:10 *Invited Lecture*

**Kosuke Suzuki** (*The University of Tokyo, Kashiwa, Japan*)

Porphyrin-Polyoxometalate Molecular Hybrids as Highly Efficient, Durable, Visible-Light-Responsive Photocatalysts

18:10 to 18:30

**Malkanthi Karunananda** (*Saint Louis University, St. Louis, USA*), Madhusa Manna Peruma, Rishi Ranjan, Dariusz Niedzwiedzki

Tuning Photophysical Properties of Metalloporphyrins via Electronic Control: Experimental and Computational Insights

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## 42. Contributed - Materials

Floor 3 : Large Conference Room C

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*Chaired by Giovanni Bottari, Athanassios Coutsolelos & David Gonzalez-Rodriguez*

17:30 to 17:50

**Daniel Arribas** (*Max Planck Institute for Solid State Research, Stuttgart, Germany*), Thiago G. L. Brito, Myriam Wadsack, Claudia Leticia Gómez Flores, Irena Padniuk, Victor Feitosa, Klaus Kuhnke, Klaus Kern, Kelvin Anggara, Anna Rosławska

Optical characterisation of single chlorophyll molecules at the sub-nanometre scale

17:50 to 18:00

**Aisha Ahsan** (*Department of Physics, Basel University, Basel, Switzerland*), S. Fatemeh Mousavi, Aaron Oechsle, Narmadha Devi, Luiza Buimaga-Iarinca, Christian Morari, Thomas Jung, Jonathan P Hill

Conformational diversity in the supramolecular assembly of porphyrins on single crystal substrates

18:00 to 18:10

**Ana R. Monteiro** (*CiQUS, University of Santiago de Compostela, Santiago de Compostela, Spain*), Jesús Bello-García, Alba García-Frutos, Aurelio Gallardo, Ana Barragán, David Écija, Diego Peña

Expanding the Toolbox for On-Surface Porphyrin Polymerization via Indenyl Coupling

18:10 to 18:20

**Darya Klyamer** (*Nikolaev Institute of Inorganic Chemistry of SB RAS (NIIC SB RAS), Novosibirsk, Russia*), Victoria Ivanova, Pavel Krasnov, Tamara Basova

Hybrid Materials Based on Metal Phthalocyanines and Carbon Nanotubes: Synthesis and Sensor Properties

## Friday, 3 July - Morning

### Award Lecture

Floor 1 : Terrsa Hall

Sessler Family Charitable Trust

09:00 to 10:00

**Robert Burns Woodward Career Award for Lifetime Achievements in the field of Porphyrin Chemistry Lecture**

Introduced by *Abhik Ghosh*

**Harry Anderson** (*University of Oxford, Oxford, United Kingdom*)

Porphyrin-Based Molecular Wires, Nanorings and Nanobelts

10:00 to 10:30

Coffee Break

### 3. Corroles

Floor 1 : Terrsa Hall

Chaired by *Daniel Gryko, Sara Nardis, Roberto Paolesse & Takayuki Tanaka*

10:30 to 10:50 *Invited Lecture*

**Sara Nardis** (*University of Rome Tor Vergata, Rome, Italy*)

N,N-dimethylcorroles: functionalizations and applications

10:50 to 11:10 *Invited Lecture*

**Tetsuo Okujima** (*Ehime University, Matsuyama, Japan*)

Serendipitous formation of *meso*-free corroles via [3+1] approach and its oxidation to *meso*-oxoisocorroles

11:10 to 11:30 *Invited Lecture*

**Giuseppe Pomarico** (*Department of Chemistry, Sapienza - University of Rome, Rome, Italy*),

Martina Marsotto, Manuela Stefanelli, Frank R. Fronczek, Roberto Paolesse

Ag(III) [beta]-alkylcorrolates: the simple made complex

11:30 to 11:50 *Invited Lecture*

**Wolfgang Schöfberger** (*Institute of Organic Chemistry, Johannes Kepler University Linz, Linz, Austria*),

Sankit Vala, Simon Offenthaler, Adrian Dorniak

Cryogenic Mechanochemistry for Sustainable Porphyrinoid Catalyst Design in Energy Storage Systems

11:50 to 12:10 *Invited Lecture*

**Stefano Superchi** (*University of Basilicata, Potenza, Italy*), Ernesto Santoro, Francesco Pizzoli,

Umberto Calice, Alessia Fata, Gabriele Magna, Sara Nardis, Roberto Paolesse

Chiroptical Properties of Inherently Chiral N-Alkyl Corroles

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## 7. Functional porphyrinoids for health applications and sustainability

Floor 1 : Terrsa Hall

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*Chaired by Claude Gros, Mathias Senge & Kevin Smith*

*12:10 to 12:30 Invited Lecture*

**Jonathan Lindsey** (*NC State University, Raleigh, USA*), Duy Chung

Some results concerning tetrapyrrole synthesis methods

*12:30 to 12:50 Invited Lecture*

**Doris Kunz** (*Institut für Anorganische Chemie, University of Tübingen, Tübingen, Germany*),

Benedikt Distel, Viola Munzert, Malin Moya Llasat, Theo Maulbetsch

Carbenaporphyrinoid Complexes of Coinage Metals and Zinc

*...continued after lunch*

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## 9. NIR-responsive porphyrinoids

Floor 3 : Large Conference Room A + B

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*Chaired by Harry Anderson, Taniyuki Furuyama & Yoshihiro Matano*

*11:30 to 11:50 Invited Lecture*

**Mercedes Alonso** (*Vrije Universiteit Brussel, Brussel (Elsene), Belgium*), Eline Desmedt,

Freija De Vleeschouwer

Aromaticity in the Spectroscopic Spotlight: Expanded Porphyrins

*11:50 to 12:10 Invited Lecture*

**Masatoshi Ishida** (*Department of Chemistry, Graduate School of Science, Tokyo Metropolitan University, Hachioji, Japan*)

N-Confused Bilatriene as a Versatile Scaffold for Metal- $\pi$  Conjugated Porphyrinoids

*12:10 to 12:30 Invited Lecture*

**Akimitsu Narita** (*Okinawa Institute of Science and Technology Graduate University, Okinawa, Japan*)

Triply-Fused Porphyrin-Nanographene Conjugates with NIR Absorption and Related Nanographenes with Zigzag Edges

*...continued after lunch*

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## 14. Advances in the chemistry of porphyrazines (azaporphyrins) and their analogues

Floor 3 : Large Conference Room A + B

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Chaired by Pavel Stuzhin

10:30 to 10:50 *Invited Lecture*

**Veronika Novakova** (*Charles University, Faculty of Pharmacy in Hradec Kralove, Hradec Kralove, Czech Republic*), Leon David Rodrigues, Mary Angelia Alfred, Petr Zimcik

Axial and Peripheral Functionalization of Silicon(IV) Phthalocyanines

10:50 to 11:10 *Invited Lecture*

**Tatiana Dubinina** (*Lomonosov Moscow State University, Moscow, Russia*), Mikhail Belousov, Roman Ereemeev, Mikhail Antanyazov, Maria Ivanova, Ivan Burtsev, Alina Markova, Vladimir Kuzmin

Hetero-Annulated Porphyrazines and Subporphyrazines: Promising Photosensitizers and Luminophores

11:10 to 11:20

**Nikita Romanenko** (*Federal Research Center of Problems of Chemical Physics and Medicinal Chemistry, Russian Academy of Sciences (FRC PCPMC RAS), Chernogolovka, Russia*), Dmitry Konarev, Faraonov Maksim

Synthesis and Properties of Trinuclear Complexes Based on Iron(II) Octaethyltetrapyrzainoporphyrazine with 3d and 4f Metals

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## 16. Organic electronics and sensors

Floor 3 : Large Conference Room C

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Chaired by Marcel Bouvet, Corrado Di Natale, Benoît Lessard & Hiroko Yamada

10:30 to 10:50 *Invited Lecture*

**Benoit Lessard** (*University of Ottawa, Ottawa, Canada*)

Silicon Phthalocyanines: From Air Stable N-Type To Record Breaking P-Type Performance In OTFTs

10:50 to 11:10 *Invited Lecture*

**Alessandro Luzio** (*Istituto Italiano di Tecnologia (IIT), Milano, Italy*), Mario Caironi

Phthalocyanine-based Edible Electronics

11:10 to 11:30 *Invited Lecture*

**Hironobu Hayashi** (*National Institute for Materials Science, Tsukuba, Japan*), Hiroko Yamada

Single Crystal Field-Effect Transistor of Tetrabenzoporphyrin with a One-Dimensional Columnar Packing Motif

11:30 to 11:50

**Keitaro Yamamoto** (*ICR, Kyoto University, Uji, Japan*), Hiroko Yamada, Yutaka Ie  
Isothianaphthene Quinoids with Controlled Diradical Character for NIR Phototransistors Using Porphyrin Hybrid Systems

11:50 to 12:10 *Invited Lecture*

**Norihito Fukui** (*Nagoya University, Nagoya, Japan*)  
From porphyrin to functional imide  $\pi$ -systems for organic electronics

12:10 to 12:30 *Invited Lecture*

**Qian Miao** (*The Chinese University of Hong Kong, Hong Kong, China*), Mengna Zhao, Han Chen, Xin Xie, Huishu Ma  
Carbazole-Based Macrocycles and Semiconductors: From Geometric Diversity to Electronic Devices

12:30 to 12:50 *Invited Lecture*

**Hiroko Yamada** (*Institute for Chemical Research, Kyoto University, Uji, Japan*), Kazuya Miyazaki, Keitaro Yamamoto  
Solvent-Desorption-Induced Single-Crystal-to-Single-Crystal Transformation of Tetrabenzoporphyrin Leading to “Layered Herringbone Superlattice”

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## 22. Solar cells and fuels

Floor 2 : Seminar Rooms 1 + 2

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*Chaired by Hiroshi Imahori & Fabrice Odobel*

10:30 to 10:50 *Invited Lecture*

**Ken Sakai** (*Department of Chemistry, Faculty of Science, Kyushu University, Fukuoka, Japan*)  
Photocatalytic CO<sub>2</sub> Reduction in Aqueous Media

10:50 to 11:10 *Invited Lecture*

**Stefano Caramori** (*Department of Chemical, Pharmaceutical and Agricultural Sciences, Università degli studi di Ferrara, Ferrara, Italy*), Edoardo Marchini, Francesca Tessore, Gabriele Di Carlo  
Perfluorinated Zinc Porphyrin for Sensitized Photoelectrosynthetic Cells

11:10 to 11:30 *Invited Lecture*

**Georgios Charalambidis** (*National Hellenic Research Foundation, Athens, Greece*), Fabrice Odobel, Athanassios G. Coutsolelos  
Solar-Driven Photocatalysis for Hydrogen Generation and Carbon Dioxide Conversion

11:30 to 11:50 *Invited Lecture*

**Fabrice Odobel** (*CNRS-Nantes University, Nantes, France*), Diego Defferrari, Stéphane Diring, Paulo Marques-Cordeiro-Junior, Marc Robert  
Porphyrinoid macrocycles as dyes and catalysts for solar energy conversion

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## 32. Photoimmunotherapy

Floor 2 : Medium Conference Room

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*Chaired by Janusz Dabrowski & Tayyaba Hasan*

*10:30 to 10:50 Invited Lecture*

**Tayyaba Hasan** (*MGH/Harvard, Boston, USA*)

The Two Faces of Photoimmunotherapy

*10:50 to 11:10 Invited Lecture*

**Hisataka Kobayashi** (*Kansai Medical University/ National Cancer Institute, laurel, USA*)

Near Infrared Photoimmunotherapy of Cancer

*11:10 to 11:30 Invited Lecture*

**Santi Nonell** (*Institut Quimic de Sarria CETS, Barcelona, Spain*), Mireia Jordà-Redondo, Ana Piqueras, Ana Castillo, Pedro L. Fernández, Roger Bresolí-Obach, Lidia Blay, Joan-Francesc Julián-Ibáñez

Photoimmunotherapy with IRDye700DX Bypasses Trastuzumab Resistance in HER2-Positive Breast Cancer

*11:30 to 11:50 Invited Lecture*

**Huang Chiao Huang** (*Fischell Department of Bioengineering, University of Maryland, College Park, USA*)

Targeted Nanotechnology and Microendoscopy for Photoimmunotherapy of Peritoneal Metastasis

*11:50 to 12:10 Invited Lecture*

**Girgis Obaid** (*University of Texas at Dallas, Richardson, USA*)

Dissecting the mechanisms of photochemical immunogenic cell death by verteporfin-lipid using unsupervised machine learning

*12:10 to 12:30 Invited Lecture*

**Pål Selbo** (*Institute for Cancer Research, Oslo University Hospital, Oslo, Norway*)

Photochemical approaches for strengthening cancer immunotherapy

*12:30 to 12:50 Invited Lecture*

**Layla Pires** (*Texas A&M University, TX, USA*), Carla Calcada, Michael Valic, Tracy Liu, Juan Chen, Gang Zheng, Brian Wilson

Porphysome-mediated photodynamic immune stimulation

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## 38. Chemistry and biology of corrinoids and related compounds

Floor 3 : Conference Room 2

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*Chaired by Dorota Gryko, Hisashi Shimakoshi & Felix Zelder*

*10:30 to 10:50 Invited Lecture*

**Bernhard Kräutler** (*Institute of Organic Chemistry, Innsbruck, Austria*)

B<sub>12</sub> - from Vitamin to Antivitamin B<sub>12</sub>

*10:50 to 11:10 Invited Lecture*

**Robert Doyle** (*Syracuse University, Syracuse, USA*), Nancy Cham, Tito Borner, Matthew R. Hayes, Bart C. De Jonghe

Dicyanocobinamide conjugates of Exendin-4 confers glucoregulation without weight-loss or nausea in tumour-bearing rats

*11:10 to 11:30 Invited Lecture*

**Koji Oohora** (*The University of Osaka, Suita, Japan*)

Engineered Hemoprotein Containing Ni Tetradehydrocorrins as an Artificial Cofactor

*11:30 to 11:50 Invited Lecture*

**Naoki Shibata** (*Department of Life Science, Graduate School of Science, University of Hyogo, Ako-gun, Japan*)

Structure of O<sub>2</sub>-inactivated Radical B<sub>12</sub> Diol Dehydratase and Identification of Adenosylcobalamin Degradation Products

*11:50 to 12:10 Invited Lecture*

**Hisashi Shimakoshi** (*Kyushu University, Fukuoka, Japan*)

Boosting Photocatalytic DDT Dechlorination by B<sub>12</sub> Complex with Formate

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## 40. Optical spectroscopy and photochemistry

Floor 3 : Conference Room D

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*Chaired by Kazuyuki Ishii, Mikalai Kruk, John Mack, Zhen Shen & Sergei Vinogradov*

*10:30 to 10:50 Invited Lecture*

**Alexander G. Martynov** (*Frumkin Institute of Physical Chemistry and Electrochemistry, Russian Academy of Sciences, Moscow, Russia*), Andrey P. Kroitor, Alexander A. Dmitrienko, Yulia G. Gorbunova, Alexander B. Sorokin

Mechanistic insights into carbene transfer catalyzed by transition metal tetrapyrroles:  
bridging spectroscopy and theory

*10:50 to 11:10 Invited Lecture*

**Artur Mardyukov** (*Institute of Organic Chemistry, Justus Liebig University, Giessen, Germany*)

Unconventional Pnictogen–Nitrogen Species as Building Blocks for Molecular Materials

*11:10 to 11:30*

**Yuriy Zhabanov** (*Ivanovo State University of Chemistry and Technology, Ivanovo, Russia*)

Molecular structure and thermodynamic properties of tetrapyrrole macrocycle complexes

## Friday, 3 July - Afternoon

### 6. aza-BODIPYs and their analogs

Floor 3 : Conference Room D

Chaired by Victor Nemykin & Christopher Ziegler

14:00 to 14:20 *Invited Lecture*

**Andrew Neil Cammidge** (*University of East Anglia, Norwich, United Kingdom*), Isabelle Chambrier, Bandar Alshammari, Aishah Alzahrani, Ibtesam Mashnoy, David Hughes

Aza-Dipyrrromethene and Aza-BODIPY analogues; extended systems and diverse complexation chemistry

14:20 to 14:40 *Invited Lecture*

**Toshifumi Iimori** (*Muroran Institute of Technology, Muroran, Japan*), Md. Bulu Rahman, Victoria Villarreal, Victor Nemykin

Electroabsorption Spectroscopy of BOPHY Derivatives: Probing Charge Transfer Character in the Excited State

14:40 to 15:00 *Invited Lecture*

**Yuji Kubo** (*Department of Applied Chemistry, Graduate School of Urban Environmental Sciences, Tokyo Metropolitan University, Hachioji, Japan*)

$\pi$ -Expanded BODIPYs for Applications in Photocatalysis and Photodetection

15:00 to 15:20 *Invited Lecture*

**Francisco Raymo** (*University of Miami, Coral Gables, USA*)

Photoactivation of BODIPY fluorescence with green light

15:20 to 15:40 *Invited Lecture*

**Soji Shimizu** (*Kyushu University, Fukuoka, Japan*)

Far-Red and SWIR aza-BODIPY Oligomers and Their Photothermal Properties

15:40 to 16:00 *Invited Lecture*

**Maria da Graca Vicente** (*Louisiana State University, Baton Rouge, USA*), Simran Dhingra, Mistura Olajuwon, Petia Bobadova, Frank Fronczek, Kevin Smith

Synthesis and Properties of 1,3,5,7-Tetraphenyl-aza-BODIPYs Functionalized with Electron-withdrawing or Donating Groups

16:00 to 16:15

Coffee Break

16:15 to 17:15

SPP Meeting & Closing Ceremony (Terrsa Hall)

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## 7. Functional porphyrinoids for health applications and sustainability

Floor 1 : Terrsa Hall

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*Chaired by Claude Gros, Mathias Senge & Kevin Smith*

*14:00 to 14:20 Invited Lecture*

**Nitika Grover** (*Birla Institute of Technology and Science (BITS), Pilani, India*)

Synthesis and Photophysical Analysis of BODIPY-DPM Conjugates

*14:20 to 14:40 Invited Lecture*

**Sébastien Richeter** (*Institut Charles Gerhardt Montpellier, Montpellier, France*), Sébastien Clément, Jean-François Longevial, Ludivine Poyac, Dimitri Dessaint

Overview of Molecular Systems Combining Porphyrins and N-Heterocyclic Carbenes and their Applications

*14:40 to 15:00 Invited Lecture*

**Nicolas Desbois** (*Université Bourgogne Europe, ICMUB UMR CNRS 6302, Dijon, France*), Gaëlle Divoux, Matthias Roux, Marc Sautour, Stéphane Brandés, Claude P. Gros

Design and Evaluation of the Antimicrobial Activity of New Corroles and Porphyrins Functionalized with Carboxylic or Phosphonic Acids

*15:00 to 15:20 Invited Lecture*

**Bartosz Szyszko** (*University of Wroclaw Faculty of Chemistry, Wroclaw, Poland*)

Tautomerism and Dynamics — Two Sides of the Same Coin. Metallosupramolecular Assemblies Based on Iminopyrroles

*15:20 to 15:40 Invited Lecture*

**Max von Delius** (*Ulm University, Ulm, Germany*)

Using Molecular (Porphyrin) Rings to Functionalize Carbon Allotropes and Create Few-Qubit Architectures

*16:00 to 16:15*

Coffee Break

*16:15 to 17:15*

SPP Meeting & Closing Ceremony (Terrsa Hall)

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## 9. NIR-responsive porphyrinoids

Floor 3 : Large Conference Room A + B

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*Chaired by Harry Anderson, Taniyuki Furuyama & Yoshihiro Matano*

*14:00 to 14:20 Invited Lecture*

**Till Opatz** (*Johannes Gutenberg University Mainz, Mainz, Germany*), Caroline Grundke, Rodrigo Silva, Winald Kitzmann, Katja Heinze, Kleber de Oliveira  
Photochemical [alpha]-Aminonitrile Synthesis Using Zn-Phthalocyanines as Near-Infrared Photocatalysts

*14:20 to 14:40 Invited Lecture*

**Prashanth K. Poddutoori** (*Department of Chemistry and Biochemistry, University of Minnesota Duluth, Duluth, USA*), Peyton Ellis, Abby Kothman, Jam R. Hamza, Jatan K. Sharma, Paul A. Karr, Art van der Est, Francis D'Souza  
Synthesis and Spectroscopy of Hypervalent P(V) and Sb(V) Porphyrins with Charge Transfer NIR Transitions

*14:40 to 15:00 Invited Lecture*

**Hiroshi Shinokubo** (*Nagoya University, Nagoya, Japan*)  
 $\pi$ -Expanded Norcorroles as NIR Absorbing Dyes

*15:00 to 15:20 Invited Lecture*

**Jishan Wu** (*National University of Singapore, Singapore, Singapore*)  
Porphyrinoid-Based Molecular Cages and [2]Catenanes

*16:00 to 16:15*

Coffee Break

*16:15 to 17:15*

SPP Meeting & Closing Ceremony (Terrsa Hall)

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## 16. Organic electronics and sensors

Floor 3 : Large Conference Room C

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*Chaired by Marcel Bouvet, Corrado Di Natale, Benoît Lessard & Hiroko Yamada*

*14:00 to 14:20 Invited Lecture*

**Corrado Di Natale** (*University of Rome Tor Vergata, Rome, Italy*), Rosamaria Capuano, Valerio Allegra, Alexandro Catini, Gabriele Magna, Roberto Paolesse

Porphyrin-conductive polymer hybrids for high sensitive and selective detection of volatile compounds

*14:20 to 14:40 Invited Lecture*

**Junko Aimi** (*National Institute for Materials Science, Tsukuba, Japan*)

Star-Shaped Polymers with a Phthalocyanine Core for Organic Memory Devices

*14:40 to 15:00 Invited Lecture*

**Gabriele Magna** (*Tor Vergata University of Rome, Rome, Italy*), Melanie Cyr, Francesco Pizzoli, Jaclyn L. Brusso, Benoit H. Lessard, Corrado Di Natale, Roberto Paolesse

Electropolymerized Phthalocyanines and Corroles: Tunable Porphyrinoid Polymers for Chemical Sensing

*15:00 to 15:20 Invited Lecture*

**Abhishek Kumar** (*Centre SPIN, Saint Etienne, France*), Marcel Bouvet, Charles Devillers, Mathilde Rieu

Porphyrinoids as functional molecules for application in gas sensors

*15:20 to 15:40 Invited Lecture*

**Tamara Basova** (*Nikolaev Institute of Inorganic Chemistry, SB RAS, Novosibirsk, Russia*)

Metal phthalocyanines and their hybrid structures as active layers of chemiresistive gas sensors

*15:40 to 16:00 Invited Lecture*

**Marcel Bouvet** (*Université Bourgogne Europe, Dijon, France*)

Ambipolar Porphyrinoid-Based Gas Sensors: Inversion of Polarity Through External Stimuli

*16:00 to 16:15*

Coffee Break

*16:15 to 17:15*

SPP Meeting & Closing Ceremony (Terrsa Hall)

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## 22. Solar cells and fuels

Floor 2 : Seminar Rooms 1 + 2

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*Chaired by Hiroshi Imahori & Fabrice Odobel*

*14:00 to 14:20 Invited Lecture*

**Hiroshi Imahori** (*Kyoto University, Kyoto, Japan*)

Engineering Porphyrins and Redox Mediators for Enhanced Dye-Sensitized Solar Cell Performance

*14:20 to 14:40 Invited Lecture*

**Ruben Caballero** (*University of Castilla-La Mancha, Toledo, Spain*), Lina Fernanda Castaño, Pilar de la Cruz

Porphyrins in Third-Generation Organic Solar Cells: Architectural Insights and Design Strategies

*14:40 to 15:00 Invited Lecture*

**Ching-Yao Lin** (*Department of Applied Chemistry, National Chi Nan University, Puli, Taiwan*), Ming-Chi Tsai, Hung-Ming Chang, Shao-Wei Hong, Ren-Bao Wu, Ming-Sin Liu, Chien-Lin Li, Sheng-Ting Wu, Hua-An Liu

Bacteriochlorins and Porphyrin-Bacteriochlorin Dimers for Solar Cell Applications

*15:00 to 15:20 Invited Lecture*

**Chengjie Li** (*East China University of Science and Technology, Shanghai, China*), Conglin Liu, Yuquan Hu, Yinglong Li, Jiazhi Zou, Jiabin Luo, Xueyan Wang, Yuqing Wang, Zhemin Li, Yingying Chen, Qingjun Lu, Kaiwen Zeng, Yongshu Xie

Porphyrin dyes for fabrication of highly efficient DSSCs: A concerted companion strategy

*16:00 to 16:15*

Coffee Break

*16:15 to 17:15*

SPP Meeting & Closing Ceremony (Terrsa Hall)

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## 31. Development of advanced photosensitizers

Floor 2 : Medium Conference Room

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Chaired by *Yutaka Amao & Pui-Chi Lo*

14:00 to 14:20 *Invited Lecture*

**Yutaka Amao** (*Research Centre for Artificial Photosynthesis, Osaka Metropolitan University, Osaka, Japan*)  
Medicinal Precursor Synthesis from Carbon Dioxide with Zinc Porphyrin/ATP-NADH  
Dependent Biocatalysts Hybrid System

14:20 to 14:40 *Invited Lecture*

**Miffy Hok Yan Cheng** (*University of British Columbia, Vancouver, Canada*)  
Porphyrinoid Nanomedicines for Advanced Theranostics

14:40 to 15:00

**Miloslav Macháček** (*Charles University, Faculty of Pharmacy, Department of Biochemical Sciences, Hradec Králové, Czech Republic*), Ingrid Hlbočanová, Pavlína Vávrová, Khaoula Lmcharrag, Klára Konečná, Magdaléna Kozlíková, Monika Rohlíková, Veronik Nováková, Petr Zimčík  
Charged Zinc Phthalocyanines – are they suitable for PDT, VTP, PCI, or PDI?

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## 39. Chemistry and biology of natural porphyrinoid pigments

Floor 3 : Conference Room 2

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Chaired by *Bernhard Kräutler & Hitoshi Tamiaki*

12:10 to 12:30 *Invited Lecture*

**Hitoshi Tamiaki** (*Ritsumeikan University, Kusatsu, Japan*), Shin Ogasawara  
Asymmetrically Coordinated Chlorophylls in Natural and Artificial Systems

12:30 to 12:50 *Invited Lecture*

**Yusuke Tsukatani** (*Japan Agency for Marine-Earth Science and Technology (JAMSTEC), Yokosuka, Japan*)  
The function and evolutionary diversity of chlorophyll biosynthetic enzymes that determine pigment specificity

12:50 to 13:10 *Invited Lecture*

**Makiko Kosugi** (*National Institute for Basic Biology, Okazaki, Japan*), Keisuke Saito, Yusuke Yoneda, Masato Kawasaki, Yutaka Shibata, Kojiro Hara, Shinichi Takaichi, Toshio Moriya, Naruhiko Adachi, Yasuhiro Kamei, Yasuhiro Kashino, Sakae Kudoh, Hiroyuki Koike, Toshiya Senda, Hikaru Kuramochi, Hiroshi Ishikita, Jun Minagawa

Far-Red Light-Harvesting Chl a/b Binding Protein Complex Allows Uphill Energy Transfer for Photosynthesis in an Antarctic Alga

14:00 to 14:20 *Invited Lecture*

**Haruki Yamamoto** (*Nagoya University, Nagoya, Japan*), Kai Funahashi, Yuki Tsuzuki, Sorachi Katayama, Ibuki Takahashi Y., Ryo Nagao, Yuichi Fujita

Plasticity of Pigment Composition and Spectroscopic Properties in Photosystem I of *Acaryochloris marina* Induced by Oxygen-Dependent Regulation of Chlorophyll d Biosynthesis

14:20 to 14:40 *Invited Lecture*

**Min Chen** (*The University of Sydney, Sydney, Australia*)

Red-shifted chlorophylls and their containing organisms: Current status

14:40 to 15:00 *Invited Lecture*

**Gunhild Layer** (*Institute of Pharmaceutical Sciences / University of Freiburg, Freiburg, Germany*), Anika Guther, Sam Washington

Radical SAM enzymes in heme and heme d1 biosynthesis

15:00 to 15:20 *Invited Lecture*

**Andrew Lawrence** (*University of Southampton, Southampton, United Kingdom*)

Biosynthesis of the Cobalamin Lower Base

15:20 to 15:40 *Invited Lecture*

**Markus Ruetz** (*University of Michigan, Ann Arbor, USA*), Ruma Banerjee

Enzyme under Siege: Mechanistic Insights into the Inhibition of Vitamin B<sub>12</sub> Dependent Methylmalonyl CoA Mutase

15:40 to 16:00 *Invited Lecture*

**Felix Zelder** (*University of Zurich, Zurich, Switzerland*)

Metal Substitution and Bioactivity in Vitamin B<sub>12</sub> Derivatives: From Biomimetic Catalysis to Antimicrobial Function

16:00 to 16:15

Coffee Break

16:15 to 17:15

SPP Meeting & Closing Ceremony (Terrsa Hall)

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## 43. Contributed - Biomedical

Floor 2 : Medium Conference Room

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Chaired by Fabienne Dumoulin

15:00 to 15:10

**Elena Gorbunova** (*Lomonosov Moscow State University, Moscow, Russia*), Alina Agranat, Tatiana Dubinina  
Isoamyloxy-substituted phthalocyanine complexes: synthesis, solubilization and photodynamic activity in vitro

15:10 to 15:20

**Giulia Kassab** (*Princess Margaret Cancer Centre/University Health Network, Toronto, Canada*), Juan Chen, Gang Zheng  
Overcoming drug delivery challenges in antimicrobial photodynamic therapy

15:20 to 15:30

**Yuta Takano** (*Hokkaido University, Sapporo, Japan*), Kushal Mohan Gowda, Yasuko Osakada, Mamoru Fujitsuka, Vasudevanpillai Biju  
Oligoglucosamine as a Biomass-Derived Aqueous Platform for Metalloporphyrin Photosensitizers

15:30 to 15:40

**Marina Volostnykh** (*Frumkin Institute of Physical Chemistry and Electrochemistry, Russian Academy of Sciences, Moscow, Russia*), Polina Demina, Kirill Khaydukov, Elizaveta Ermakova, Anastasia Dushina, Roman Akasov, Yulia Gorbunova  
Pd(II) Porphyrin-UCNP Hybrid Biocompatible Systems: Design and Structural Features

15:40 to 15:50

**Daniel Ziental** (*Poznań University of Medical Sciences, Poznań, Poland*), Jolanta Długaszewska, Eduardo Anaya Plaza, Andrés de la Escosura, Tomás Torres, Ana Belén Domínguez, M. Salomé Rodríguez-Morgade, Lukasz Sobotta  
Assessment of cationic phthalocyanines and doxycycline against resistant microbes – innovative approach or dead end?

16:00 to 16:15

Coffee Break



# Poster Presentations

*Sponsored by*

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# Poster Session 1

Tuesday, 30 June : 18:30 - 20:30

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## Floor 2 :

Seminar Room 3 - S01-01 to S06-06

Conference Room 9 - S06-07 to S07-04 and S28-01 to S31-06

Training Room - S31-07 to S39-03

## Synthesis

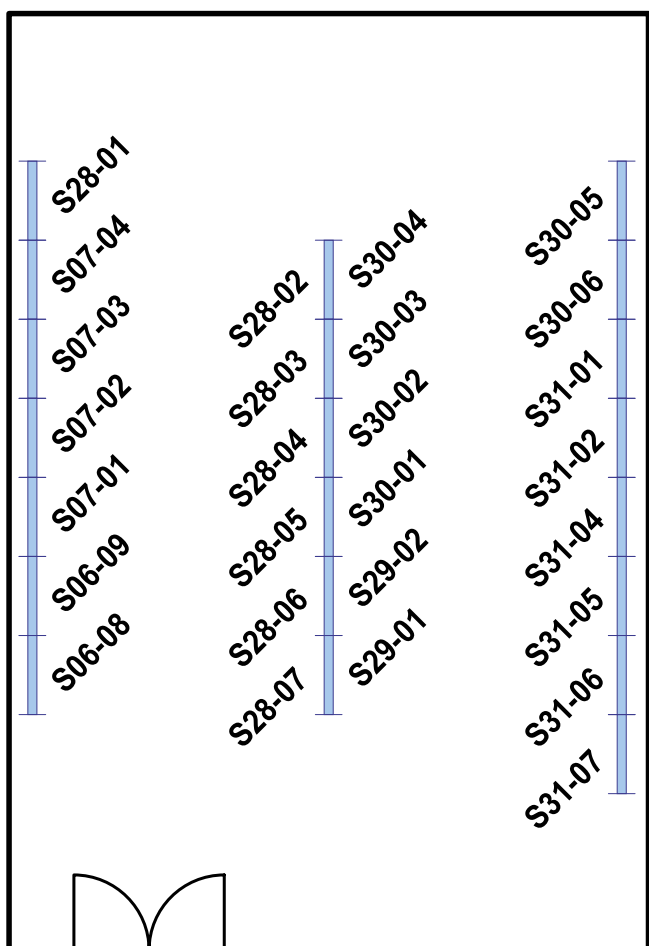
01. Emergence of novel fused and strained porphyrinoids:  
Synthesis and structures
02. Subphthalocyanine and related contracted porphyrinoids:  
Advances in their chemistry and applications
03. Corroles
04. Carbaporphyrinoids with N-confusion and fusion
05. Synthesis and properties of porphyrinoids
06. aza-BODIPYs and their analogs
07. Functional porphyrinoids for health applications and sustainability

## Biomedical

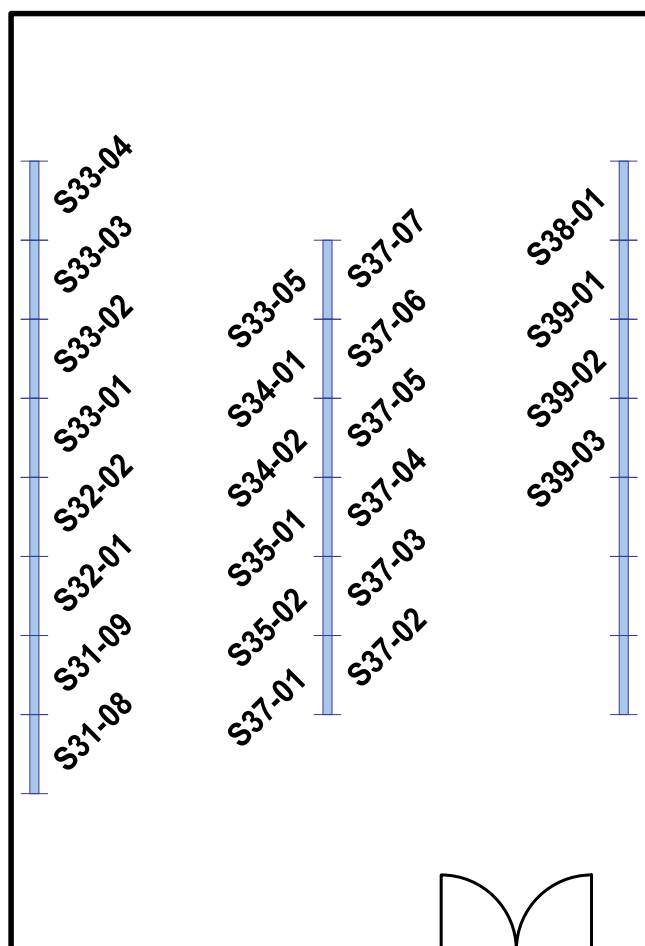
28. Activatable probes for cancer imaging and therapy
29. Health and sustainability
30. Functional chromophores for sensing and imaging
31. Development of advanced photosensitizers
32. Photoimmunotherapy
33. Porphyrinoids in photomedicine

## Biochemistry

34. Heme proteins and synthetic analogues
35. Catalysis in natural and biosynthetic heme proteins
37. Heme enzymes: Structure and function
38. Chemistry and biology of corrinoids and related compounds
39. Chemistry and biology of natural porphyrinoid pigments

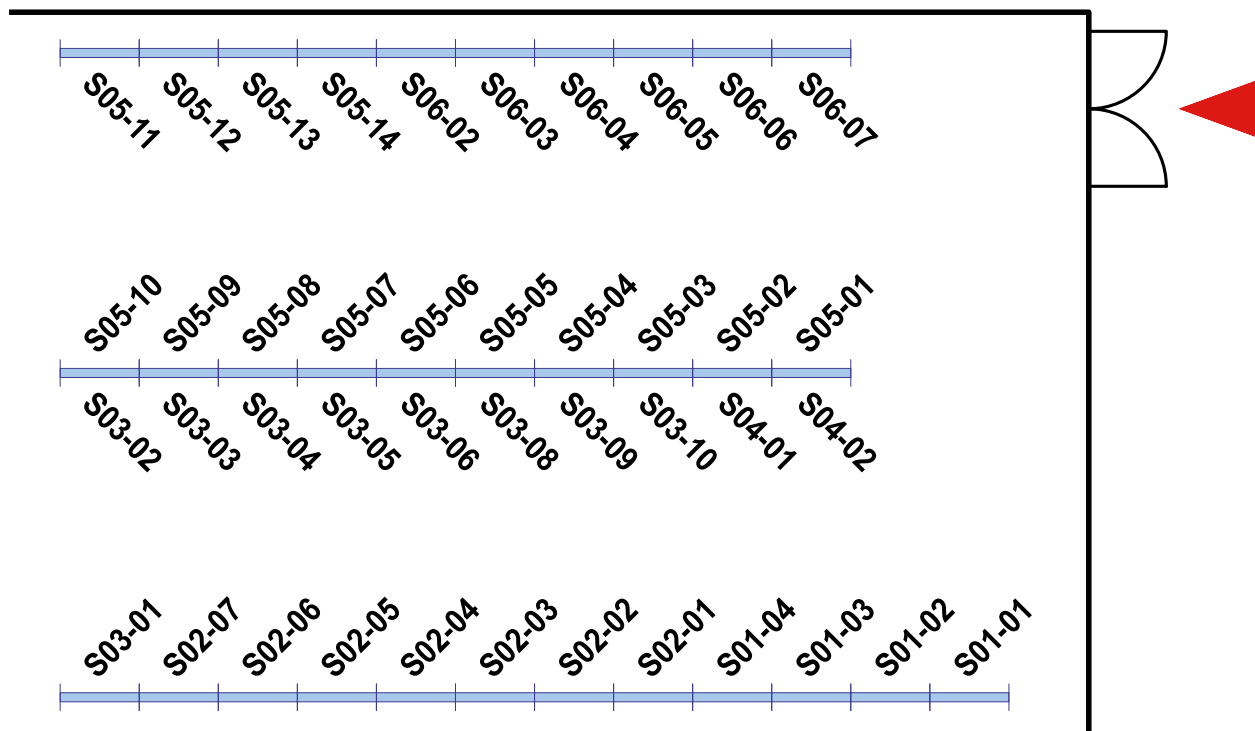


2F - Conference Room 9



2F - Training Room

2F - Seminar Room 3



POSTERS 1 - TUE

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## 1. Emergence of novel fused and strained porphyrinoids: Synthesis and structures

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S01-01

**Gentaro Honda** (*Division of Applied Chemistry, Faculty of Engineering, Hokkaido University, Japan, Sapporo, Hokkaido, Japan*), Keita Watanabe, Yuki Ide, Yasuhide Inokuma

Peripheral and axial functionalization of superacid-resistant macrocyclic BODIPYs

S01-02

**Yoh Kumagai** (*Department of Molecular Engineering, Graduate School of Engineering, Kyoto University, Kyoto city, Japan*), Takayuki Tanaka, Shu Seki

Modulated Vibronic Coupling in Deuterated Tetraaza[8]circulenes

S01-03

**Oto Ooyama** (*Graduate School of Science, The University of Osaka, Osaka-shi, Japan*), Yuki Shibata, Ken-ichi Yamashita, Shohei Saito

Synthesis of Triangular Porphyrin Oligomers toward the Construction of Supramolecular Graphene

S01-04

**SK Jiyaur Rahaman** (*Jagiellonian University, Krakow, Poland*), Krzysztof Dzieszkowski, Monika Kijewska, Ludovic Favereau, Miłosz Pawlicki

Inducing Helical Handedness in  $\pi$ -Extended Macrocycles via Axial Chirality Transfer.

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## 2. Subphthalocyanine and related contracted porphyrinoids: Advances in their chemistry and applications

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S02-01

**Mikhail Belousov** (*Lomonosov Moscow State University, Moscow, Russia*), Maria Ivanova, Tatiana Dubinina  
Carbazole-fused boron subporphyrazines: synthesis, photophysical properties and in vitro cytotoxicity

S02-02

**Alina M. Fazlyeva** (*Research Institute of Macroheterocyclic Compounds, Ivanovo, Russia*), Karina R. Romanova, Ivan A. Skvortsov, Pavel A. Stuzhin

Coumarin-Annulated Subporphyrazine: Synthesis and Photophysical Properties

S02-03

**Alina M. Fazlyeva** (*Research Institute of Macroheterocyclic Compounds, Ivanovo, Russia*), Karina R. Romanova, Ivan A. Skvortsov, Pavel A. Stuzhin

Alcoholysis of Perfluorinated Boron(III) Subphthalocyanine Leading to Diazatripyrrins (DATRIPYs)

S02-04

**Marta Gómez Gómez** (*Universidad Autónoma de Madrid, Madrid, Spain*), Jorge Labella, Tomás Torres  
Bowl-to-Bowl Inversion in Subphthalocyanines:  $SN_2$  vs.  $SN_1$  Pathways at a Tetracoordinate Boron

S02-05

**Juan Laforga-Martín** (*Department of Organic Chemistry, Universidad Autónoma de Madrid, Madrid, Spain*), Jorge Labella, Tomás Torres

Driven by Geometry: Subphthalocyanines in Supramolecular Polymer Design

S02-06

**Pavel A. Stuzhin** (*Ivanovo State University of Chemistry and Technology, Ivanovo, Russia*), Ekaterina Gnedina, Dmitriy A. Lazovskiy, Ivan A. Nikitin

Contracted and azaanalogues of peripherally carboxylated phthalocyanine

S02-07

**Lorena Vogt** (*University of Kassel, Kassel, Germany*), Anika Petersen, Valeska Viereck, Frank Abendroth, Olalla Vázquez, Rüdiger Faust

Thermally Controlled Singlet Oxygen Storage and Release from a SubPc-Pyr-Dyad in HeLa Cells

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### 3. Corroles

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S03-01

**Nicolas Desbois** (*Université Bourgogne Europe, ICMUB UMR CNRS 6302, Dijon, France*), Gaëlle Divoux, Margerie Loze, Laurie André, Stéphane Brandès, Claude P. Gros

Development of new building blocks based on phosphonic acid corroles for the preparation of porous materials for gas detection

S03-02

**Alessia Fata** (*Department of Chemical Sciences and Technologies, University of Rome Tor Vergata, Rome, Italy*), Sara Nardis, Francesco Pizzoli, Frank R. Fronczek, Kevin M. Smith, Roberto Paolesse

Synthesis of iron-N-methyl corroles

S03-03

**Jonas Fehler** (*Julius-Maximilians-Universität Würzburg, Institute of Inorganic Chemistry and Institute for Sustainable Chemistry & Catalysis with Boron (ICB), Würzburg, Germany*), Lukas Swoboda, Vivien Schütz, Holger Helten

Aromatic Boratetraoxacorroles: A Mirror Image of Antiaromatic Boracorrole

S03-04

**Marcelo Fernandez de la Mora** (*Technion -- Israel Institute of Technology, Haifa, Israel*)

Affecting the Properties of the Parent-Corrole Cobalt Complexes by Axial Ligands

S03-05

**Claude P. Gros** (*Université Bourgogne Europe, ICMUB - UMR CNRS 6302, Dijon, France*), Shivani Kessavjee-Djouma, Nicolas Desbois, Haziq Naseer Khan, Tomas Moravec, Nguyet-Thanh Ha Duong

Virus-based adducts encapsulating corroles macrocycles to fight viral infections

S03-06

**Claude P. Gros** (*Université Bourgogne Europe, ICMUB - UMR CNRS 6302,, Dijon, France*), Laurie André, Margerie Loze, Ken Rapady, Gaëlle Divoux, Nicolas Desbois, Stéphane Brandès, Meddy Vanotti, Virginie Blondeau-Patissier

Porous structures based on cobalt corroles for the selective detection of carbon monoxide

S03-08

**Bastian Kraul** (*IAAC, TU Braunschweig, Braunschweig, Germany*), Johannes Zurwellen, Marla Brandtstätter, Anastasiia Riabchunova, Stefanie Tschierlei, Martin Bröring

How to: Tin Corrole Photosensitisers

S03-09

**Hendrik Peters** (*TU Braunschweig IAAC, Braunschweig, Germany*), Martin Bröring

Arsenic Corroles

S03-10

**Wolfgang Schöfberger** (*Institute of Organic Chemistry, Johannes Kepler University Linz, Linz, Austria*), Adrian Dorniak, Sankit Vala, Simon Offenthaler

Low-Temperature Mechanochemical Synthesis of A3-Corroles and A4-Porphyrins

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## 4. Carbaporphyrinoids with N-confusion and fusion

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S04-01

**Saori Okamura** (*Tokyo Metropolitan University Department of Chemistry, Graduate School of Science, Hachioji, Japan*), Masatoshi Ishida

Redox-induced Aromaticity Switching in Doubly N-Confused Bilatriene Pd(II)/Pt(II) Complexes

S04-02

**Kinga Szydelko** (*University of Wrocław, Faculty of Chemistry, Wrocław, Poland*), Michał J. Białek, Piotr J. Chmielewski

Chemical Switching of Aromaticity in N-Confused Porphyrin Complexes

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## 5. Synthesis and properties of porphyrinoids

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S05-01

**Md Ashif Ali** (*Yonsei University, Seoul, Korea*), Woo-Dong Jang, Dongho Kim

From Aromaticity to Catalysis: Symmetry-Driven Electronic Structure Modulation in Functional Macrocycles

S05-02

**Umit Isci** (*Marmara University, Department of Metallurgical and Materials Engineering, Istanbul, Turkey*), Zeynel Sahin, Filippo Monti, Daniele Veclani, Barbara Ventura, Fabienne Dumoulin

Adamantane vs cyclohexane: how the bulkiness of phthalocyanines' substituents affects their properties

S05-03

**Hyeon-Seok Jeong** (*Department of Chemistry, Inha University, Incheon, Korea*), Yoon-Hee Lee, Sung-Wook Choi

Quinoliporphyrin as an Aromatic Monoanionic Porphyrinoid and Its Degradation Promoted by Cu<sup>2+</sup>

S05-04

**Satoshi Kato** (*Graduate School of Engineering, Nagoya University, Nagoya, Japan*), Hideaki Takano, Hiroshi Shinokubo

Synthesis and Properties of 10-Isocorrole Metal Complexes

S05-05

**Pak Lun Lam** (*The Hong Kong Polytechnic University, Hong Kong SAR, China*), Ho-Fai Chau, Wing-Sze Tam, Waygen Thor, Yik-Hoi Yeung, Hei-Yui Kai, Yue Wu, Ka-Leung Wong

Combining Pyrrole Chemistry with Solid-phase Peptide Synthesis: Modular Approaches for Peptide Multifunctionalization

S05-06

**Angelina Liu** (*Seaquam Secondary School, Delta, Canada*), Runchang Liu

Chlorination of N-confused porphyrin

S05-07

**Nela Malatesti** (*Faculty of Biotechnology and Drug Development, Rijeka, Croatia*), Martina Mušković Lukić, Martin Lončarić, Nikola Basarić, Ivana Ratkaj

Photophysics and Hyperporphyrin Effect of New Porphyrins with N,N-Diethylaminophenyl and Acetamidophenyl Groups

S05-08

**Mohini Mittal** (*Department of Chemistry, IISER BHOPAL, BHOPAL, India*), Sameeksha Agarwal, Pradeep Kumar Mondal, Jeyaraman Sankar

Porphyrin–Carbazole Architectures: From Selective Fullerene Recognition to Topologically Interesting Chiral Macrocycles

S05-09

**Marina Polovkova** (*IPCE RAS, Moscow, Russia*), Inessa Efimova, Evgeniya Safonova, Roman Akasov, Aslan Tsivadze, Yulia Gorbunova

Tuning Cytotoxic Properties of Phosphorus(V) Porphyrins for Biomedical Applications

S05-10

**Obed Rodriguez Perez** (*Aalto University, Espoo, Finland*), Daniel Langerreiter, Eduardo Anaya Plaza, Sandra Kaabel

A Greener Route to Blue: Solid-State Synthesis and Functionalization of Phthalocyanines

S05-11

**Maximilian Schrodtt** (*Institute of Inorganic Chemistry, Heidelberg University, Germany, Heidelberg, Germany*), Markus Enders

Monomer vs Dimer – Solvation and Aggregation Behaviour of two Octo-Carbazole Substituted Iron Phthalocyanines

S05-12

**Gayathri Sekar** (*Indian Institute of Technology, Bombay, Mumbai, India*)Synthesis of  $\beta$ -Terpyridinyl Triphyrin(2.1.1) and its coordination chemistry

S05-13

**Akruti Sharma** (*Indian Institute of Technology Bombay, Mumbai, India*), Mangalampalli RavikanthSynthesis of  $\beta$ -Substituted Meso-Tetraaryl Triphyrin(2.1.1)s and Covalently Linked Triphyrin(2.1.1)-Porphyrin Dyads

S05-14

**Dilara Sipahioglu** (*Graduate School of Natural and Applied Sciences, Department of Biomedical Engineering, Acibadem University, Istanbul, Turkey*), Fabienne Dumoulin

Synthetic Strategies Towards Phthalocyanine–Lipoic Acid Conjugates

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## 6. aza-BODIPYs and their analogs

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S06-02

**Renu Bishnoi** (*Indian Institute of Technology Gandhinagar, Gandhinagar, India*)

Aza-BODIPY-based imaging Biomarkers for anti-cancer applications

S06-03

**Daniil N. Finogenov** (*Research Institute of Macrocyclic Compounds, Ivanovo, Russia*), Nikolay E. Galanin, Roman A. Novikov, Taisia A. Romyantseva, Pavel A. Stuzhin

Benzo-, pyridino- and pyrazino-annulated unsymmetrical BODIPY analogues: effect of aza-substitution on physicochemical properties

S06-04

**Daniil N. Finogenov** (*Aza-BODIPY Analogues: Effect of Substituents in the Fused Rings (Benzene|Pyrazine) on Z,E-Isomerism, Spectral and Electrochemical Properties, Ivanovo, Russia*), Alexander A. Kalyagin, Dominika Yu. Parfyonova, Pavel A. Stuzhin

Aza-BODIPY Analogues: Effect of Substituents in the Fused Rings (Benzene|Pyrazine) on Z,E-Isomerism, Spectral and Electrochemical Properties

S06-05

**Shuhei Fukami** (*Department of Applied Chemistry, Graduate School of Engineering, Fukuoka, Japan*), Takanori Iwasaki, Soji Shimizu

Synthesis of Butadiyne-Linked Cyclic Pyrrolopyrrole aza-BODIPY Oligomers via Platinum Coordination

S06-06

**Edward Gilbreth** (*University of Tennessee, Knoxville, USA*), Victor Nemykin

Pyridine Functionalized Aza-BODIPY for use as non-Fullerene Electron Acceptors

S06-07

**Alexander A. Kalyagin** (*Institute of Solution Chemistry, Russian Academy of Sciences, Ivanovo, Russia*), Alexander A. Goncharenko, Daniil N. Finogenov, Alexander A. Ksenofontov, Elena V. Antina, Mikhail B. Berezin, Pavel A. Stuzhin

Ultralong Room-Temperature Phosphorescence of BODIPY Dye into Matrix

S06-08

**John Mack** (*Tebello Nyokong Institute for Nanotechnology Innovation, Rhodes University, Makhanda, South Africa*), Temlandvo Magwaza, Nthabeleng Molupe, Yolande Openda, Tebello Nyokong

The photodynamic antimicrobial chemotherapy activities of azaBODIPY dyes and their gold nanoparticle conjugates

S06-09

**Lluisa Perez-Garcia** (*Universitat de Barcelona, Barcelona, Spain*), Ruxin Li, Sharanabasava D Hiremath, Saman Bagherpour

Mitochondria-Targeted BODIPY Fluorophores for Selective Sensing of Glutathione and Chloride Ion Dynamics

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## 7. Functional porphyrinoids for health applications and sustainability

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S07-01

**Kim Hyun Woo** (*The Catholic University of Korea, Bucheon-si, Korea*)

ROS-Regulating Hydrogel-Based Platform Coating to Enhance Stem Cell Function

S07-02

**Nuno M. M. Moura** (*University of Aveiro, Aveiro, Portugal*), Chahrazad El Abiad, Smaail Radi, M. Amparo F. Faustino, M. Graça P. M. S. Neves

Development of porphyrin-silica adsorbents for efficient toxic metal ions removal from industrial wastewater

S07-03

**Lukasz Sobotta** (*Department of Inorganic and Analytical Chemistry, Poznan University of Medical Sciences, Poznan, Poland*)

Zinc Phthalocyanine and Gadolinium Co-Loaded Liposomes as a Platform for Magnetic Resonance Imaging and Photodynamic Treatment

S07-04

**Yik-Hoi Yeung** (*Department of Applied Biology and Chemical Technology, The Hong Kong Polytechnic University, Hong Kong, China*)

Bimetallic porphyrin PET radiotracers for Low-Dose MRI contrast enhancement

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## 28. Activatable probes for cancer imaging and therapy

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S28-01

**Shivani** (*Indian Institute of Technology Roorkee, IIT ROORKEE, India*)

$\beta$ -Substituted Phthalimide Porphyrins as Redox-Active Anticancer Agents Against HeLa Cells

S28-02

**Saswati Adhikary** (*WPI-ICReDD, Hokkaido University, Sapporo, Japan*), Akari Mukaimine, Mikako Ogawa

New Near-Infrared Photoimmunotherapeutic (NIR-PIT) Drugs for Anti-Cancer Treatment

S28-03

**Zhaolin Chen** (*Chemistry, Hong Kong, China*), Yunong Xie, Minghe Zhang, Man Tong, Evelyn Y. Xue

Cyclodextrin-Conjugated Phthalocyanines as Tumor-Targeting and Renal-Clearable Photosensitizers for Photodynamic Therapy

S28-04

**Hosoowi Lee** (*Department of Chemistry & Nanoscience / Ewha Womans University, Seoul, Korea*), Juyoung Yoon

Tunable Photodynamic Efficiency in Porphyrin Nanoparticles via Polymorphism-like Molecular Packing

S28-05

**Ivonne R. Lopez-Miranda** (*University of Toronto, Oakville, Canada*), Andrew A. Beharry

Photo-caged  $\beta$ -Lapachone Prodrugs

S28-06

**Shuai Wang** (*The Chinese University of Hong Kong, Hong Kong, China*), Qingshuang Zou, Dennis K. P. Ng

Epidermal Growth Factor Receptor-Mediated Double-Gated Bioorthogonal Activation of Photosensitizers for Targeted Photodynamic Therapy

S28-07

**Jiaen Xie** (*Chemistry, Hong Kong, China*), Meijun Wang, Xiaoyan Cui, Kwan T. Chow, Pui-Chi Lo

Regulating Cell Death Induced by Photodynamic Therapy with Phthalocyanine through Incorporation on a Zeolitic Imidazolate Framework

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## 29. Health and sustainability

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S29-01

**Dorota Chelminiak-Dudkiewicz** (*Faculty of Chemistry, Nicolas Copernicus University in Toruń (Poland), Torun, Poland*)

Chitosan-based sponge loaded with zinc phthalocyanine as a multifunctional wound dressing material

S29-02

**Luis Arnaut** (*University of Coimbra, Coimbra, Portugal*), Carlos Serpa, Fábio M. S. Rodrigues, Amanda Rocha, Kate C. Blanco, Anderson Zanchin, Mariette M. Pereira, Vanderlei S. Bagnato

Prevention of pneumonia with functionalized endotracheal tubes and antimicrobial photodynamic therapy

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## 30. Functional chromophores for sensing and imaging

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S30-01

**Nitika Grover** (*Birla Institute of Technology and Science (BITS), Pilani, Pilani, India*), Harshita Saroj, Pankaj Arora

Electronically Tuned Dipyrromethene and BODIPY Platforms for Selective Fluoride and Cyanide Detection

S30-02

**Caroline Gwaro** (*Louisiana State University, Baton Rouge, USA*), Caroline Ndung'u, Petia Bobadova-Parvanova, Dylan Goliber, Quynh Do, Ashley R. Walker, Evan Murders, Daniel LaMaster, Frank R. Fronczek, Jayne Garno, Maria da Graça H. Vicente

Versatile Nitration of BODIPY Dyes Using  $\text{NO}_2\text{BF}_4$ : Effects of Nitro Substituents on Spectroscopic and Self-Assembly Properties

S30-03

**Jan Labuta** (*National Institute for Materials Science (NIMS), Tsukuba, Japan*), Shinsuke Ishihara, Jonathan P. Hill

NMR Detection of Enantiomeric Excess w/o Formation of Diastereomers using Prochiral Solvating Agents (pro-CSAs)

S30-04

**Jan Labuta** (*National Institute for Materials Science (NIMS), Tsukuba, Japan*), Nadiia Velychkivska  
Phase-Separable and pH-Sensitive Star-Shaped Porphyrin-PNIPAM Conjugates

S30-05

**Mitsuhiko Morisue** (*Kyoto Institute of Technology, Kyoto, Japan*), Masashi Yamaguchi, Takahito Shibahara, Hiroaki Harada, Ken-ichi Yuyama, Masashi Nakamura, Yukiyasu Kashiwagi, Hiroyasu Masunaga, Sono Sasaki, Munetaka Iwamura, Koichi Nozaki, Tatsuo Taniguchi

Interface-Induced Modulation of Fluorescence in Liquid and Semicrystalline BODIPYs

S30-06

**Sebastian Oloo** (*Chemistry/Louisiana State University, Baton Rouge, USA*), Petia Bobadova-Parvanova, Alexis Lueders, Mina Kim, Frank Fronczek, Kevin Smith, Maria da Graça Vicente

Post-Synthetic Diversification of BOPPY Fluorophores via Cross-Coupling and Nucleophilic Substitution Strategies

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## 31. Development of advanced photosensitizers

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S31-01

**Stefan Bednarik** (*Charles University, Faculty of Pharmacy, Hradec Kralove, Czech Republic*), Dorota Chelminiak-Dudkiewicz, Klara Konecna, Magdalena Kozlikova, Jiri Demuth, Petr Zimcik, Veronika Novakova, Miloslav Macháček

Photoactive materials suitable for antimicrobial photodynamic therapy

S31-02

**Elena Gorbunova** (*Lomonosov Moscow State University, Moscow, Russia*), Alina Agranat, Andrey Sybachin, Karina Kisliak, Tatiana Dubinina

Aryloxy-substituted phthalocyanines: synthesis, photophysical properties and in vitro photodynamic activity

S31-04

**Yu Min Jang** (*Department of Biomedical-Chemical Engineering, The Catholic University of Korea, Bucheon, Korea*)

Photo-activated Adipose-Derived Stem Cells with Improved Paracrine Immunomodulation for Inflammatory Bowel Disease

S31-05

**Giulia Kassab** (*Princess Margaret Cancer Centre, University Health Network, Toronto, Canada*), Caitlyn Lee, Juan Chen, Wenfang Sun, Gang Zheng

Heteroleptic Iridium Complexes show unmatched potency as antimicrobial photosensitizers for hard-to-treat bacterial and fungal infections

S31-06

**Nuno M. M. Moura** (*University of Aveiro, Aveiro, Portugal*), Melani J. A. Reis, Cátia Vieira, M. Graça P. M. S. Neves, Adelaide Almeida, M. Amparo F. Faustino

A<sub>2</sub>B<sub>2</sub>-Type porphyrins bearing nitrogen-donor units: Synthesis and photo-antibacterial efficiency

S31-07

**Nidhi Nehra** (*Faculty of Pharmacy, Hradec Kralove, Charles University, Hradec Kralove, Czech Republic*),  
Veronika Novakova, Petr Zimcik

NIR Absorbing BODIPY-Flavonol Conjugates as CO Releasing Molecules

S31-08

**Leon David Rodrigues** (*Faculty of Pharmacy in Hradec Králové, Charles University, Hradec Králové, Czech Republic*), Veronika Novakova

Synthesis of Low-Symmetrical Silicon Phthalocyanines for Photodynamic Therapy

S31-09

**Nele Theysmans** (*Hasselt University, Hasselt, Belgium*), Mathias Fraiponts, Greta Sambucari,  
Thomas Leendertse, Alessia Pancaro, Lisa Reynders, Jasper Deckers, Barbara Patrizi, Kristof Van Hecke,  
Laurence Lutsen, Anitha Ethirajan, Mariangela di Donato, Benoît Champagne, Wouter Maes

Integrating Twisted and Push-Pull Structural Motifs for Efficient Dual-Functioning Near-Infrared  
BODIPY Photosensitizers

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## 32. Photoimmunotherapy

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S32-01

**Hani Choi** (*The Catholic University of Korea, Bucheon, Korea*)

EGFR-Targeted Antibody–Polymer–Photosensitizer Induces ROS-Mediated Immunogenic Cell  
Death and Suppresses KRAS-Driven Signaling in Colorectal Cancer

S32-02

**Yeong A Kim** (*The Catholic University of Korea, Bucheon-si, Korea*)

Overcoming Delivery Barriers Using a Customized Photo-Activated Polyplex for Intranasal  
mRNA Delivery

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## 33. Porphyrinoids in photomedicine

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S33-01

**Dmitry Bunin** (*Frumkin Institute of Physical Chemistry and Electrochemistry, Russian Academy of Sciences, Moscow, Russia*), Tatiana Egorova, Polina Shram, Roman Akasov, Svetlana Monich, Maxim Stepanov,  
Maria Stepanova, Ekaterina Urodikova, Ivan Senchikhin, Alexander Martynov, Aslan Tsivadze, Yulia Gorbunova

Novel A<sub>3</sub>B-Type Phthalocyanine as Building Block for Self-Assembled Nanoparticles with Type I  
Photodynamic and Photothermal Activity

S33-02

**Magdalena Kozlikova** (*Charles University, Faculty of Pharmacy in Hradec Králové, Department of Biochemical Sciences, Hradec Králové, Czech Republic*), Ingrid Hlbocanova, Pavlina Vavrova, Klara Konecna, Miloslav Macháček

Photodynamic Inactivation of ESKAPE Pathogens with Novel (Aza)phthalocyanines – Study of  
Their Activity and Safety

S33-03

**Nela Malatesti** (*Faculty of Biotechnology and Drug Development, Rijeka, Croatia*), Martina Mušković Lukić, Martin Lončarić, Nikola Basarić, Ivana Ratkaj

Photophysical Characterisation of Zn(II) and Free-base Pyridiniumporphyrins with a Long Alkyl Chain in Complexes with BSA

S33-04

**Monika Rohlícková** (*Department of Biochemical Sciences, Faculty of Pharmacy, Charles University, Hradec Králové, Czech Republic*), Jibin Alex Abraham, Pavlína Vávrová, Klára Konečná, Magdaléna Kozlíková, Petr Zimčík, Veronika Nováková, Miloslav Macháček

Amphiphilic ABAC Phthalocyanine and Its Potential Biomedical Applications

S33-05

**Daja Krummenacher** (*University of Bern, Biochemistry and Pharmaceutical Sciences, Bern, Switzerland*), Iche Gjuroski, Peter Vermathen, Julien Furrer, Sabine Käsmeyer, Martina Vermathen

Phospholipid Bicelles as Topical Delivery Systems for Porphyrinic Photosensitizers

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## 34. Heme proteins and synthetic analogues

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S34-01

**Yuto Isoda** (*Doshisha University, Kyotanabe, Japan*), Atsuki Nakagami, Qiyue Mao, Masahito Kodera, Hiroaki Kitagishi

Water-soluble, thiolate-ligated Zn/Fe porphyrins

S34-02

**Eftychia Pinakoulaki** (*Department of Chemistry, University of Cyprus, Aglantzia, Cyprus*), Vasiliki Valianti

Resonance Raman and FTIR Investigation of the Reactions of Hemeproteins with Sulfide/Nitrite

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## 35. Catalysis in natural and biosynthetic heme proteins

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S35-01

**Cybele Lemuh Njimoh** (*Chemistry/University of Michigan, Ann Arbor, USA*), Krystina Hird, Eric Hegg, Nicolai Lehnert

Trapping and Spectroscopic Characterization of the Ferrous Heme-NO Intermediate of Bacterial Multiheme Cytochrome c Nitrite Reductase

S35-02

**Federico Sebastiani** (*Department of Chemistry DICUS - University of Florence, Sesto Fiorentino (FI), Italy*), Laura Cesati, Giulietta Smulevich, Maurizio Becucci, Lara Massai

Cytochrome *c* as a target for metal-based anticancer drugs

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## 37. Heme enzymes: Structure and function

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S37-01

**Shubham** (*Chemical Sciences/ IISER Mohali, Mohali, India*), Pritam Mondal

Exploring Hydrogen Atom Abstraction Thermodynamics of a Synthetic (Heme)Fe<sup>III</sup>±OH Complex: Understanding the Mechanistic intricacies of the final step of Heme-copper Oxidases

S37-02

**Shubham** (*Chemical Sciences/ IISER Mohali, Mohali, India*), Pritam Mondal

Stepwise Nitrate → Dinitrogen Transformation Mediated by a Series of Synthetic Heme/Cobalt and Heme/Copper Assemblies: Modeling Denitrification with Cytochrome *c* Oxidase Mimics

S37-03

**Petra Hellwig** (*University of Strasbourg, CNRS, Strasbourg, France*), Raaif Siddeeqe, Lucia Heger, Thorsten Friedrich, Frédéric Melin

The high diversity of oxygen reactivity in bacterial terminal oxidases

S37-04

**Hideki Kato** (*Department of Applied Biological Science, Faculty of Science and Technology, Noda, Chiba, Japan*), Takafumi Hashimoto, Tuhin Das, Daniel Z Doherty, Stephen G. Bell, Toshiki Furuya

Peroxygenase engineering of bacterial cytochrome P450 CYP107J1 for use as a biocatalyst

S37-05

**Eftychia Pinakoulaki** (*Department of Chemistry, University of Cyprus, Aglantzia, Cyprus*), Takehiro Ohta, Teizo Kitagawa, Tewfik Soulimane, Constantinos Varotsis

Visible- and UV-Raman Spectroscopy of Nitric Oxide Reductase and Heme-Copper Oxidase Reactions with NO

S37-06

**Constantinos Varotsis** (*Department of Chemical Engineering, Cyprus University of Technology, Limassol, Cyprus*), Takehiro Ohta, Kerstin Budiman, Oliver-Matthias Richter, Teizo Kitagawa, Bernd Ludwig, Eftychia Pinakoulaki

The Cytochrome *c* Oxidase -Y280H, -W272H and -Y167F/O<sub>2</sub>/H<sub>2</sub>O<sub>2</sub> Reactions by UV-Raman Spectroscopy

S37-07

**Takahiro Watanabe** (*Department of Life Science and Chemistry, Gifu University, Gifu city, Japan*), Wakaba Noda, Takanori Nakane, Tetsuo Katayama, Atsuhiro Shimada

Time-Resolved XFEL Pump–Probe Analysis Reveals Structural–Electronic Coupling at Metal Sites in Cytochrome *c* Oxidase

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## 38. Chemistry and biology of corrinoids and related compounds

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S38-01

**Fabian Piskol** (*Albert-Ludwigs-Universität Freiburg, Institute of Pharmaceutical Sciences, Freiburg, Germany*), Gunhild Layer

A Cobalamin-Dependent Radical SAM Methyltransferase that Methylates SAM –  
Characterization and Exploration of the Alkyl-Transfer Potential of Orf29

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## 39. Chemistry and biology of natural porphyrinoid pigments

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S39-01

**Florian Schuhmacher** (*University of Freiburg, Institute of Pharmaceutical Sciences, Freiburg, Germany*),  
Lin Zhang, Alena Kussler, Oliver Einsle, Gunhild Layer

Conformational flexibility of the nitrogenase-like reductase CfbC/D

S39-02

**Hitoshi Tamiaki** (*Ritsumeikan University, Kusatsu, Japan*), Sunao Shoji

Self-aggregation of synthetic bacteriochlorophyll-d analogs with a heptaisobutylated POSS unit in  
alkane solvents

S39-03

**Hitoshi Tamiaki** (*Ritsumeikan University, Kusatsu, Japan*), Jiro Harada

Observation of the phenotypes of mutants lacking the C8-vinyl reductase, BciA or BciB, that is  
found in the bacteriochlorophyll biosynthesis of photosynthetic bacteria



# Poster Session 2

Thursday, 2 July : 18:30 - 20:30

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## Floor 2 :

Seminar Room 3 - S08-01 to S17-05

Conference Room 9 - S17-06 to S23-05

Training Room - S23-06 to S26-03 and S40-01 to S41-03

## Characterization

08. Exotic porphyrins and novel heteroaromatic macrocycles
09. NIR-responsive porphyrinoids
11. Porphycenes
12. Aromaticity and antiaromaticity
13. Chiral porphyrinoids and related systems
14. Advances in the chemistry of porphyrazines (azaporphyrins) and their analogues

## Materials

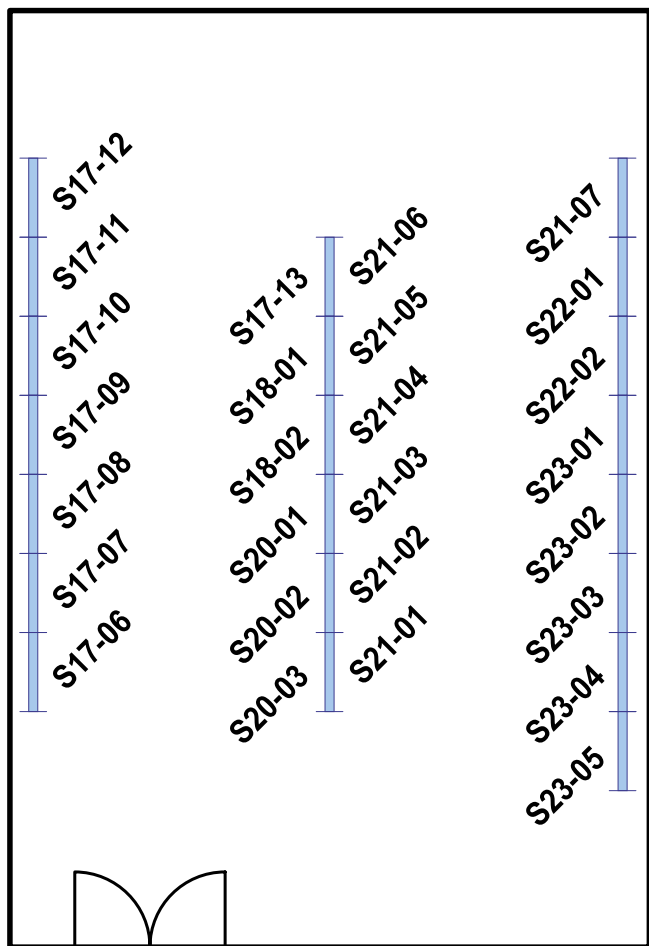
15. Porphyrinoids at interfaces
16. Organic electronics and sensors
17. Self-assembled systems and materials
18. Pyrrole-based  $\pi$ -systems
20. MOF and COF

## Energy

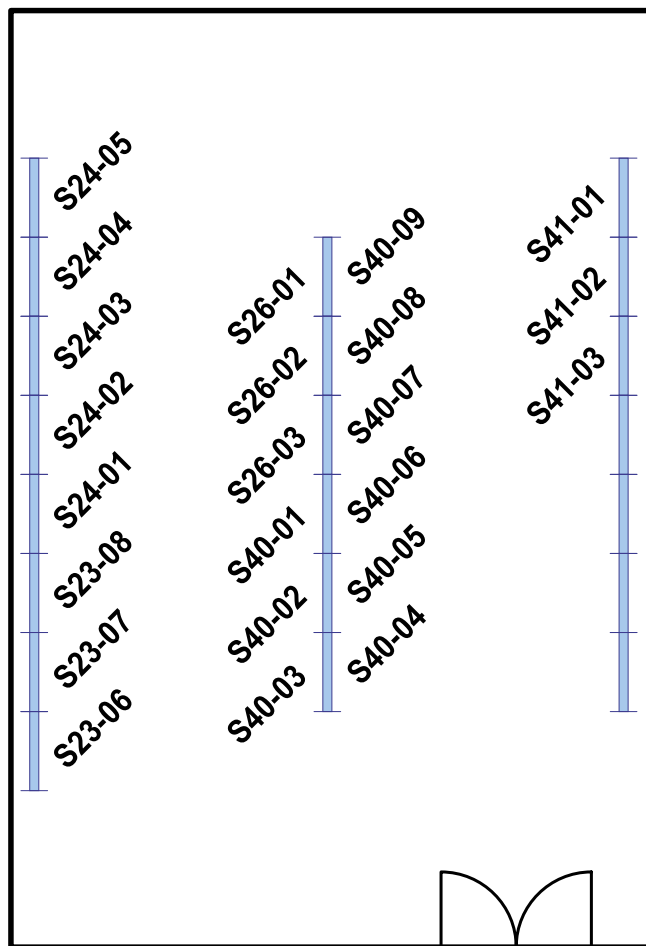
21. Catalysis for sustainability
22. Solar cells and fuels
23. Redox chemistry and electrochemistry of porphyrinoids and oligopyrroles
24. Photocatalysis
26. Catalytic activation of CO<sub>2</sub> : From fuels to complex molecules

## Theory

40. Optical spectroscopy and photochemistry
41. Theory and spectroscopy

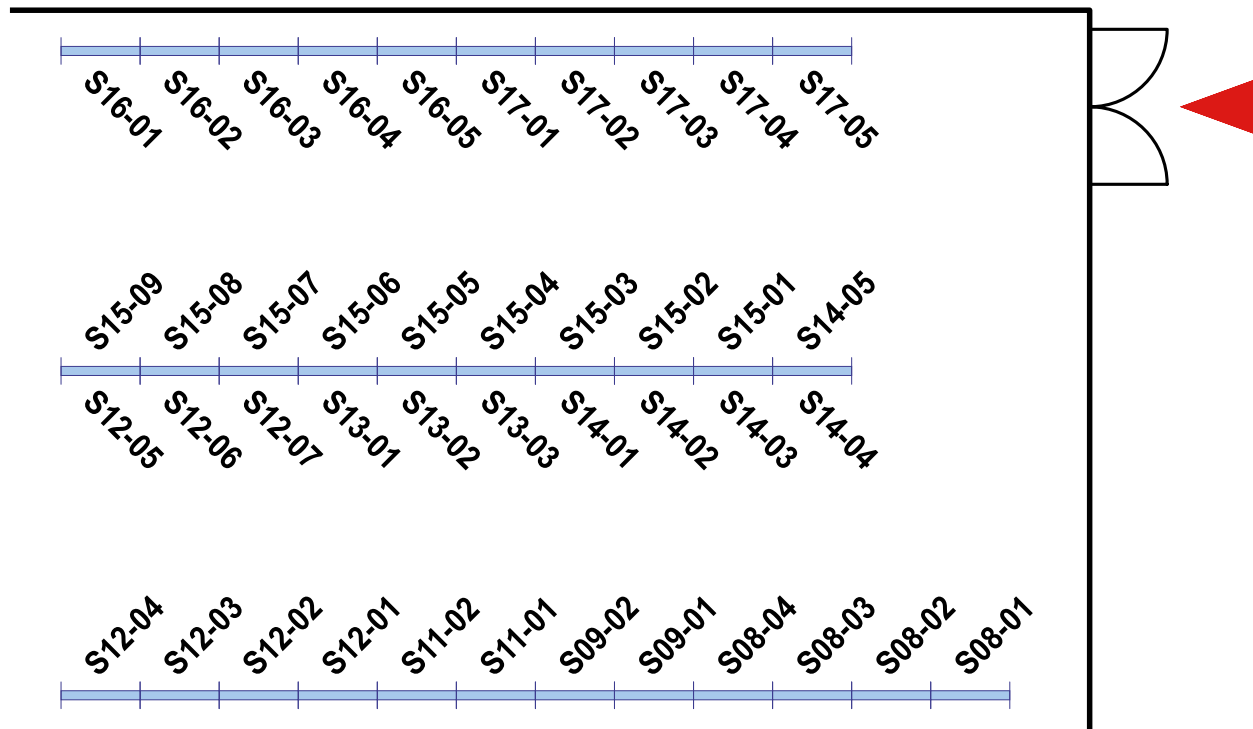


2F - Conference Room 9



2F - Training Room

2F - Seminar Room 3



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## 8. Exotic porphyrins and novel heteroaromatic macrocycles

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S08-01

**Reena** (*Indian Institute of Technology, Roorkee, Roorkee, India*)

Structure-Driven Enhancement of Third-Order Nonlinear Optical Properties in Electron-Deficient  $\beta$ -Trisubstituted Porphyrins

S08-02

**Faith Borkowski** (*Department of Chemistry, University of Connecticut, Storrs, USA*)

Pyrrole-modified meso-tetrahexylporphyrin derivatives

S08-03

**Dominika Kasperek** (*University of Wrocław, Faculty of Chemistry, Wrocław, Poland*), Ewa Pacholska-Dudziak

It can be whatever you want: The reactivity of tellurophene embedded in the porphyrinoid skeleton toward osmium carbonyl

S08-04

**John Mack** (*Tebello Nyokong Institute for Nanotechnology Innovation, Rhodes University, Makhanda, South Africa*), Mahlatse Ledwaba, Simone Bassini, Elise Daems, Earl Prinsloo, Tebello Nyokong, Karolien De Wael

Novel water-soluble chlorin photosensitizers for use in photoelectrochemistry and photodynamic therapy

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## 9. NIR-responsive porphyrinoids

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S09-01

**Ryo Nishida** (*Graduate School of Medical Sciences, Kanazawa University, Kanazawa, Japan*), Taniyuki Furuyama

Overcoming thermodynamic limitations in red-light reactions utilizing interatomic interactions

S09-02

**Orie Takayama** (*The University of Tokyo, Bunkyo-ku, Japan*), Naoyuki Toriumi, Kenjiro Hanaoka, Masanobu Uchiyama

Ruthenium  $\pi$ -arene Complex of Benzophthalocyanine

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## 11. Porphycenes

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S11-01

**Agnieszka Gajewska** (*Institute of Physical Chemistry, Warsaw, Poland*), Jacek Waluk, Aleksander Gorski

Porphycenes bearing electron-withdrawing groups: synthesis, spectroscopy, photophysics, and photostability.

S11-02

**Narmada Katari** (*University of Hyderabad, Hyderabad, India*), Pradeepta Kumar Panda

3,6,13,16-Tetraarylporphycene: A New Class of Porphycene Derivative Exhibiting Atropisomerism

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## 12. Aromaticity and antiaromaticity

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S12-01

**Aleksandra Galazka** (*University of Wrocław, Wrocław, Poland*), Qin Liu, Sha Li, Guoru Chen, Xiaofang Li, Michal J. Bialek, Piotr J. Chmielewski

Aromaticity Flip-Flop: Spectroscopic Insights into Pyridine-Fused Oxacorrole Dimers Across Their Redox States

S12-02

**Wataru Imanaka** (*Department of Chemistry, Graduate School of Science, The University of Osaka, Toyonaka, Japan*), Satoshi Toyama, Shohei Saito, Ken-ichi Yamashita

Stacked-Ring Antiaromaticity: Experimental Evidence and Structure–Property Relationships in Stacked Dimers of Cyclic Conjugated Radicals

S12-03

**Koshiro Isono** (*Department of Molecular and Macromolecular Chemistry, Graduate School of Engineering, Nagoya University, Nagoya, Japan*), Shiori Itabuchi, Hideaki Takano, Hiroshi Shinokubo

Synthesis, crystal polymorphism, and methylation of Ni(II) dipyridylporcorrole

S12-04

**Jonas Klopff** (*Institute of Inorganic Chemistry, University of Würzburg, Würzburg, Germany*), Lukas Swoboda, Manuel Buckel

Boron-Doped Porphyrinoids with Concealed Antiaromaticity

S12-05

**Sha Li** (*Department of Molecular and Macromolecular Chemistry, Graduate School of Engineering, Nagoya University, Nagoya, Japan*)

The reaction of Ni(II) norcorroles with TCNE

S12-06

**Tae-Ho Roh** (*Department of Chemistry, Inha University, Incheon, Korea*), Pradeep. P Desale, Min-Sung Ko, Hyeon-Seok Jeong

Two Different Clar's Sextets: Clar's Rule Does Not Necessarily Contradict the Global Pathway of Conjugated Macrocycles

S12-07

**Taiyou Tsutsumi** (*Department of Applied Chemistry, Graduate School of Engineering, Fukuoka, Japan*), Yukako Kawashige, Takanori Iwasaki, Soji Shimizu

Single Molecular Conductance of Antiaromatic 5,15-Dioxaporphyrin and Its Quantum Interferences

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### 13. Chiral porphyrinoids and related systems

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S13-01

**Alexander A. Dmitrienko** (*Frumkin Institute of Physical Chemistry and Electrochemistry, Russian Academy of Sciences, Moscow, Russia*), Andrey P. Kroitor, Alexander G. Martynov, Yulia G. Gorbunova, Alexander B. Sorokin

Novel architectures of chiral phthalocyanines for the elaboration of asymmetric catalysts

S13-02

**Anna Lewandowska-Andralojc** (*Adam Mickiewicz University, Faculty of Chemistry, Poznan, Poland*), Karol Hauza, Gotard Burdzinski, Aleskandra Lindner, Jurgen Lindner, Ruslan Salikhov, Bronislaw Marciniak  
Spectroscopic Properties of Chiral Porphyrin Self-Assembled Monolayers on Thin Ferromagnetic Films

S13-03

**Sonia Polańska** (*Jagiellonian University, Kraków, Poland*)  
Chiroptically active 3D macrocycles based on triptycene

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### 14. Advances in the chemistry of porphyrazines (azaporphyrins) and their analogues

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S14-01

**Mikhail Belousov** (*Lomonosov Moscow State University, Moscow, Russia*), Ivan Burtsev, Alina Markova, Tatiana Dubinina

The first pyrido[1,2-a]benzimidazole-fused porphyrazines – promising near IR photosensitizers

S14-02

**Tatiana Dubinina** (*Lomonosov Moscow State University, Moscow, Russia*), Roman Ereemeev, Ivan Burtsev, Alina Markova, Vladimir Kuzmin

Subporphyrazine-drug hybrid photosensitizers containing diclofenac and abiraterone: Synthesis, photophysical properties, and photodynamic activity in vitro

S14-03

**Dennis Mercier** (*Chemistry, London, Canada*), Veronika Novakova, Martin J. Stillman

Characterization of the effects of peripheral substitutions on the electronic structure of tetrapyrroloporphyrazines

S14-04

**Ekaterina Rychikhina** (*Ivanovo State University of Chemistry and Technology, Ivanovo, Russia*), Dmitry Vyalkin, Alexey Eroshin, Yuriy Zhabanov

Synthesis, molecular structure and physicochemical properties of Si(IV) octapropylporphyrazine and etioporphyrin

S14-05

**Ekaterina Rychikhina** (*Research Institute of Macroheterocycles, Ivanovo State University of Chemistry and Technology, Ivanovo, Russia*), Svetlana Ivanova, Pavel Stuzhin

Si(IV) complexes of tetrapyrroloporphyrazine with camphor-annulated rings

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## 15. Porphyrinoids at interfaces

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S15-01

**Yannic Altmann** (*University of Kassel, Kassel, Germany*), René Matzdorf, Rüdiger Faust  
Towards On-Surface Photoswitching of Electronic Conductivity with Aza-BODIPY Molecular Wires

S15-02

**Daniel Arribas** (*Max Planck Institute for Solid State Research, Stuttgart, Germany*), Thiago G. L. Brito, Myriam Wadsack, Claudia Leticia Gómez Flores, Irena Padniuk, Victor Feitosa, Klaus Kuhnke, Klaus Kern, Kelvin Anggara, Anna Rosławska  
Optical characterisation of single chlorophyll molecules at the sub-nanometre scale

S15-03

**Lenka Cerna** (*IMDEA Nanociencia, Madrid, Spain*), Alba García-Frutos, Ana Barragán, Gouri Sahoo, Sofia O. Perreiras, Koen Lauwaet, Óscar Jóver, José I. Urgel, Marco di Giovannantonio, José I. Martínez, Willi Auwärter, José M. Gallego, Ángela Sastre, David Écija  
Engineering Non-Metalated Phthalocyanines on Au(111)

S15-04

**Marta Gómez Gómez** (*Universidad Autónoma de Madrid, Madrid, Spain*), Jorge Lobo Checa, Jorge Labela, Tomás Torres  
On-Surface Synthesis of  $\pi$ -Extended Subphthalocyanine-Based Systems

S15-05

**Thiago Gonzalez-Llana Brito** (*Max Planck Institute for Solid State Research, Stuttgart, Germany*), Daniel Arribas, Sofia Canola, Klaus Kuhnke, Tomáš Neuman, Anna Rosławska  
Tuning Molecular Light Emission Through Atomic-Scale Control of the Local Environment

S15-06

**Ailish Gray** (*School of Physics and Astronomy, University of Nottingham, Nottingham, United Kingdom*), Eleanor S. Frampton, Michael Clarke, Matthew Edmondson, Joseph Straw, Robert Templeton, Alex Saywell  
Structural characterisation of an on-surface reaction: Halogenated porphyrins on Cu(111)

S15-07

**Ailish Gray** (*School of Physics and Astronomy, University of Nottingham, Nottingham, United Kingdom*), Eleanor S. Frampton, Michael Clarke, Matthew Edmondson, Jonathan Bradford, Liv Warwick, Nicholas Pearce, Neil R. Champness, Alex Saywell  
Extrinsic activation of an on-surface reaction

S15-08

**Joseph Straw** (*University of Nottingham, Nottingham, United Kingdom*), Matthew Edmondson, Michael Clarke, Liv Warwick, Ailish Gray, Amelia Thompson, Fulden Eratam, David A. Duncan, Alex Saywell  
Molecular materials for carbon capture and storage: On-surface characterisation of self-assembly and gas adsorption properties of metal phthalocyanines and porphyrins.

S15-09

**Joseph Straw** (*University of Nottingham, Nottingham, United Kingdom*), Matthew Edmondson, Michael Clarke, James N. O'Shea, Harry L. Anderson, Alex Saywell  
Electrospray deposition and on-surface characterisation of cyclic-porphyrin polymers

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## 16. Organic electronics and sensors

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S16-01

**Minamo Furuta** (*Kyoto University, Kyoto-fu Uji-shi, Japan*), Keitaro Yamamoto, Mitsuaki Yamauchi, Hiroko Yamada

Development of Quinoidal Conjugated Molecules Based on Isobenzoheterole Units

S16-02

**Benoit Lessard** (*University of Ottawa, Ottawa, Canada*)

Lessard Research Group: Electronics and Sensors Based on Phthalocyanines and Beyond

S16-03

**Kazuya Miyazaki** (*Kyoto University, Uji Campus, Japan*), Keitaro Yamamoto, Mitsuaki Yamauchi, Yoshiyuki Mizuhata, Hiroko Yamada

Charge Transport Properties of a Tetrabenzoporphyrin Derivative with the Superlattice Herringbone Structure

S16-04

**Aleksandr Sukhikh** (*Nikolaev Institute of Inorganic Chemistry SB RAS, Novosibirsk, Russia*), Darya Klyamer, Dmitry Bonegardt, Tamara Basova

Halogenated phthalocyanines: crystal structure, packing motifs, and intermolecular interactions

S16-05

**Francesca Tessore** (*Department of Chemistry, University of Milan, Milan, Italy*), Giuseppe Cappelletti, Gian Luca Chiarello, Gabriele Di Carlo, Manuel Minnucci, Sara Oregioni, Rocco Martinazzo

Interplay Between SnO<sub>2</sub> and Perfluorinated Zn(II) Porphyrins: Electronic Effects and Chemisorption–Physisorption Mechanisms in Acetone Chemiresistive Detection

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## 17. Self-assembled systems and materials

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S17-01

**David B. Amabilino** (*Barcelona Materials Science Institute (ICMAB-CSIC), Bellaterra, Spain*), Daniela Dupkalová, Aysha Fasna, Monika Gupta, Lluïsa Pérez-García

Light-induced molecular motion in supramolecular fibres

S17-02

**Kodai Asakuma** (*Chuo University, Bunkyo-ku, Japan*)

Alkyl-phthalocyanine-based liquid electrets

S17-03

**Stefan Bednarik** (*Charles University, Faculty of Pharmacy, Hradec Kralove, Czech Republic*), Jiri Demuth, Isabelle Chambrier, Ales Ruzicka, Jan Labuta, Petr Zimcik, Andrew Cammidge, Veronika Novakova

Self-assembly of meso-functionalized ABBA Zinc(II) Tetrabenzotriazaporphyrins into supramolecular systems

S17-04

**Konstantin Benthues** (*Department of Chemistry & Pharmacy/ Friedrich-Alexander Universität Erlangen-Nürnberg, Erlangen, Germany*), Norbert Jux, Christoph Oleszak, Christian Ritterhoff

Synthesis of Five Ring Fused Porphyrins for Supramolecular Chemistry and Non-Planar Structures

S17-05

**Dae Eun Kang** (*Department of Chemistry, Yonsei University, Seoul, Korea*)

Helical and Nanoparticle Structures in Self-Assembled Porphyrin Dyads by Linker Modification

S17-06

**Ryuichi Kawai** (*Division of Advanced Science and Engineering, Graduate School of Engineering, Chiba University, Inage-ku, Japan*), Soichiro Ogi, Hiroki Hanayama, Ryo Kudo, Shiki Yagai

Curvature-Driven Supramolecular Polymerization of a Porphyrin Dyad with a Scissor-Shaped Motif

S17-07

**Ryo Kudo** (*Chiba University, Chiba, Japan*), Sho Takamiya, Hitoshi Tamiaki, Hiroki Hanayama, Shiki Yagai

Additive-Controlled Polymorphism in a Chlorophyll-Based Supramolecular Polymer

S17-08

**Khaoula Lmcharrag** (*Faculty of Pharmacy in Hradec Králové, Charles University, Hradec Králové, Czech Republic*), Stefan Bednarik, Veronika Novakova, Petr Zimcik

Self-assembled fluorescent J-dimers of phthalocyanines

S17-09

**Yuto Nakaie** (*College of Science & Technology, Nihon University, Chiyoda-ku, Japan*), Ryota Yamada, Joe Otsuki

Coordination-Induced Porphyrin Dimers with an Expanded Cavity as Host Molecules

S17-10

**Dmitrii Nazarov** (*Federal Research Center of Problems of Chemical Physics and Medicinal Chemistry of the Russian Academy of Sciences (ICP RAS), Chernogolovka, Russia*), Maxim Faraonov, Dmitri Konarev

Binuclear Coordination Assemblies of Metal Tetraphenylporphyrins (M = Mn, Fe, and In) with various Dyes (thioindigo, pentacenequinone, iso-violanthrone, and manganese(II) phthalocyanine)

S17-11

**Lluïsa Pérez-García** (*Universitat de Barcelona, Barcelona, Spain*), Pascual López-Algarra, Saman Bagherpour, Marta Duch, José Antonio Plaza, Josefa Badia, Laura Baldomà, Sergio Martínez-Ruiz

Influence of Surface Functionalization of Silicon Oxide Microchips on Cytocompatibility and Cellular Internalization

S17-12

**Ainhoa Salazar** (*Universidad Autónoma de Madrid, Madrid, Spain*), Aleksandr Mikherdov, Guido Clever, Gema de la Torre

BODIPY-Based Ligands for the Self-Assembly of Pd<sub>n</sub>L<sub>2n</sub> Coordination Cages.

S17-13

**Kota Taniguchi** (*Nihon University, Tokyo, Japan*), Tomoya Abe, Yuto Nakaie, Ryota Yamada, Masaya Domyo, Ayumu Murokoshi, Yousuke Hosoya, Kosuke Sugawa, Joe Otsuki

Metal-driven Dimerization of Porphyrins bearing Bipyridine Ligands Modified with Ethylene Glycol Chains

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## 18. Pyrrole-based $\pi$ -systems

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S18-01

**Adrija Kayal** (*School of Chemical Sciences, National Institute of Science Education and Research (NISER), An OCC of Homi Bhabha National Institute, Bhubaneswar, India*), Mainak Das, A Srinivasan  
Dicarbatriphyrin(2.1.1) and Carbacalix[1]phyrin(2.1.1) analogue: Structure-property relationship and application as a Fe(III) chemosensor

S18-02

**Tomokazu Nakamura** (*Department of Chemistry, Graduate School of Science, Tokyo Metropolitan University, Hachioji, Japan*), Masatoshi Ishida  
Synthesis and Photophysical Properties of  $\beta,\beta$ -Butadiyne- bridged BODIPY Nanorings

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## 20. MOF and COF

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S20-01

**Russell Cox** (*University of Notre Dame, Notre Dame, USA*)  
Porphyrin-based Plutonium Metal–Organic Frameworks: A Versatile Platform for Investigating Elusive Actinide Cluster Chemistry

S20-02

**Russell Cox** (*University of Notre Dame, Notre Dame, USA*)  
Synthesis and Structural Evolution of Lanthanide-Porphyrin MOFs

S20-03

**Yewon Kim** (*Department of Chemistry, Yonsei University, Seoul, Korea*)  
Interfacial Synthesis of Naphthorosarin-based 2D MOF

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## 21. Catalysis for sustainability

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S21-01

**Shivani** (*Indian Institute of Technology Roorkee, IIT ROORKEE, India*)  
 $\beta$ -Functionalized Oxido-Vanadium Porphyrins for Multicomponent Synthesis of Bioactive Pyranopyrazoles

S21-02

**David George Churchill** (*KAIST, Yuseong-Gu, Korea*), Jyoti, Ritika Kubba, Sachin Kumar, Natalia Fridman, Sudhir G. Warkar, Anil Kumar  
Cobalt Corroles and their Level of Hydrogen Evolution Activity

S21-03

**Athanassios Coutsoulelos** (*University of Crete, Heraklion, Greece*), Katerina Achilleos, Anna Katsari, Emmanuel Nikoloudakis, Georgios Charalambidis, Kalliopi Ladomenou  
Covalently linked porphyrin-carbon dot hybrids for efficient visible light hydrogen production

S21-04

**Kamal Dhakal** (*University of North Texas, Denton, USA*), Alankar Kafle, Diliraj Subedi, Mohammad K. Altafi, Alireza Hajiseyedjavadi, Swatej Sabbarwal, Thomas R. Cundari, Francis D'Souza  
Electrochemical Conversion of Nitrate and Carbon Dioxide to Value-Added Chemicals Using Bifunctional Electrocatalyst Cobalt Tritolylcarboxyl Porphyrin

S21-05

**Alexander A. Dmitrienko** (*Frumkin Institute of Physical Chemistry and Electrochemistry, Russian Academy of Sciences, Moscow, Russia*), Andrey P. Kroitor, Yulia G. Gorbunova, Alexander B. Sorokin, Alexander G. Martynov

From screening to stereocontrol: DFT study of tetrapyrrolic catalysts for cyclopropanation

S21-06

**Kai-Chun Hsu** (*Academia sinica, institute of chemistry, Taipei City, Taiwan*), Bhakayaraj Kasia, Tanmoy Pain, Chen-Hsiung Hung

Hydrogen Atom Abstraction by  $\mu$ -Oxo Iron Porphyrin Dimers in Dioxygen-Promoted Catalytic Deformylation of Aldehydes

S21-07

**Andrei Kroitor** (*Institute of Physical Chemistry and Electrochemistry, Russian Academy of Sciences, Moscow, Russia*), Alexander Martynov, Yulia Gorbunova, Alexander Sorokin

Ruthenium naphthalocyanine as a catalyst for carbene insertion into N-H bonds.

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## 22. Solar cells and fuels

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S22-01

**Reena** (*Indian Institute of Technology, Roorkee, Roorkee, India*)

Redox-Active  $\beta$ -Tetrathiophenols Porphyrins as Next-Generation Hole-Transport Materials in Perovskite Photodetectors

S22-02

**Alexander Rudine** (*Portland State University, Portland, USA*), Brian DeFatti, Nicholas Day, Carl Wamser  
Photophysical Characterizations for a Full Series of Novel Push-Pull Porphyrins Containing p-Aminophenyl and p-Carboxy/carbomethoxyphenyl Substituents.

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## 23. Redox chemistry and electrochemistry of porphyrinoids and oligopyrroles

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S23-01

**Élodie Anxolabéhère-Mallart** (*Sorbonne Université, Institut Parisien de Chimie Moléculaire, CNRS UMR 8232, Paris, France*), Kirill Kuznetsov, Jérémy De Freitas, Marc Robert, Claire Fave

Electrochemical generation of reactive Nitrido complexes for Nitrogen Atom Transfer

S23-02

**Élodie Anxolabéhère-Mallart** (*Sorbonne Université, Institut Parisien de Chimie Moléculaire, CNRS UMR 8232, Paris, France*), Sara I. Mozzi, Ireneusz Tomczyk, Sihem Groni, Sittichok Kasemthaveechok, Claire Fave

Mechanistic Investigation on the Oxygen Atom Transfer to Styrene via the Electrochemical O<sub>2</sub> Activation by a Mn Porphyrin

S23-03

**Charles H. Devillers** (*ICMUB, Université Bourgogne Europe, Dijon, France*), Nesrine Amiri, Asmae Bousfiha, Fatima Akhssas, Abdou Khadre Djily Dimé, Hélène Cattey, Julien Roger

Intramolecular Electron Transfer Between Electrogenerated Ferrocenium and Porphyrin Redox Units: Application to meso-Functionalization of 5,15-bis-FerrocenylPorphyrin

S23-04

**Charles H. Devillers** (*ICMUB, Université Bourgogne Europe, Dijon, France*), Nesrine Amiri, Asmae Bousfiha, Fatima Akhssas, Mathieu Berthelot, Hélène Cattey, Julien Roger

Synthesis of meso, $\beta$ -fused Thiazinamine-Porphyrins via Oxidative C-N Fusion of Pyrimidinyl-substituted Porphyrins

S23-05

**Brendon McNicholas** (*University of Tennessee, Knoxville, Knoxville, USA*), Emma Lane, Marissa Kuruce

Electronic Characteristics of Cyano-Substituted Transition Metal Tetraphenylporphyrins

S23-06

**Brendon McNicholas** (*University of Tennessee, Knoxville, Knoxville, USA*), Wren Stiefel, Ryan Hadt

Slurry-State Redox Flow Batteries Employing Silicon Phthalocyanine Oligomers: Electron Delocalization Enhances Cycling Stability

S23-07

**Emut Sukma Sejati** (*Luxembourg Institute of Science and Technology, Esch-sur-Alzette, Luxembourg*), Amr Nada, Nicolas D. Boscher, Diego Martinez-Martinez, Robin J. White

Highly-Conjugated Porphyrin Polymer Films via Oxidative Chemical Vapor Deposition for the Oxygen Reduction Reaction

S23-08

**Kenberson Surin** (*Sorbonne Université, CNRS, Institut Parisien de Chimie Moléculaire (IPCM), Paris, France*), Dependu Dolui, Marc Robert

Towards the electrochemical molecular activation of dinitrogen with phthalocyanines

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## 24. Photocatalysis

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S24-01

**Ashmita Jain** (*Chemistry, IIT Gandhinagar, Gandhinagar, India*)

Photoredox Reactions mediated by Corrole Derivatives

S24-02

**Shekhar Kumar** (*IIT Gandhinagar, Gandhinagar, India*), Samrita Sharma, Iti Gupta

Photo-Assisted Organic Transformations by Palladium Dipyrrinato Complexes

S24-03

**Kushal Mohan Gowda** (*Department of Environmental Science, Hokkaido University, Sapporo, Japan*),

Yasuko Osakada, Mamoru Fujitsuka, Vasudevanpillai Biju, Yuta Takano

Tuning Photo-excited Pathways of Platinum (II)-Porphyrin by Chitosan for an Efficient Photocatalyst

S24-04

**Nithish Kumar Subramanian** (*Faculty of Chemistry, University of Wroclaw, Wroclaw, Poland*),

Aleksandra Legiecka, Karolina Hurej

Controlling Bifunctionalisation Pathways in Metalloporphyrin-catalyzed C(sp<sup>3</sup>)-H chlorination of Arylalkanes

S24-05

**Masahiro Yamaguchi** (*School of Engineering, The University of Tokyo, Kashiwa-shi, Chiba, Japan*),

Kaito Shioya, Chifeng Li, Kentaro Yonesato, Kei Murata, Kazuyuki Ishii, Kazuya Yamaguchi, Kosuke Suzuki

Engineering of Cofacial Porphyrin Dimers Using Polyoxometalates and Their Photocatalysis

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## 26. Catalytic activation of CO<sub>2</sub>: From fuels to complex molecules

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S26-01

**Albert Buenos** (*Frédéric Joliot Institute for Life Sciences, French Atomic Energy and Alternative Energies Commission (CEA), Saclay, France*), Asma Khadharoui, Ally Aukauloo, Zakaria Halime, Anja Krieger-Liszskay, Philipp GoticoWhen Charge Matters: Electrostatic Second-Sphere Design Unlocks Enhanced Photocatalytic CO<sub>2</sub> Reduction

S26-02

**Shunsuke Eguchi** (*Kyushu University, Fukuoka-shi, Japan*), Koshiro Chiwata, Ken Sakai, Kosei YamauchiCO<sub>2</sub> Reduction Reaction Promoted by Macrocyclic Bis(NHC) Cobalt Complexes

S26-03

**Barbara Ventura** (*Istituto per la Sintesi Organica e la Fotoreattività (ISOF) – Consiglio Nazionale delle Ricerche (CNR), Bologna, Italy*), Alejandra Saavedra Moncada, Elisa Bandini, Marco Agnes, Andrea Barbieri, Nicola ArmaroliPhotoinduced processes in Ru(bpy)<sub>3</sub>-porphyrin dyads designed for carbon dioxide valorization

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## 40. Optical spectroscopy and photochemistry

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S40-01

**Andrew Dawson** (*Department of Chemistry, University of North Texas, Fort Worth, USA*), Victor Sobrino-Bastán, Luis Martín-Gomis, Ángela Sastre-Santos, Francis D'Souza

Long-lived Excited Charge Separation in Silicon(IV) Phthalocyanine with Axially Bound C<sub>60</sub> via Azobenzene Spacers

S40-02

**Chamari Viyanga Ileperuma** (*University of North Texas, Department of Chemistry, Denton, USA*), José Garcés-Garcés, Ana M. Gutiérrez-Vilchez, Ángela Sastre-Santos, Fernando Fernández Lázaro, Francis D'Souza

Enhancing Charge-Separated State Persistence via N-Linked Zinc Phthalocyanine-Pyrroloperylene-diimide (ZnPc-N-PDI) Donor–Acceptor Architecture

S40-03

**Ram Ratan Kaswan** (*University of North Texas at Denton, Denton, USA*), Lydia Ferrer-López, Desire Molina Alcaide, Ángela Sastre-Santos

Symmetry Breaking Charge Separation in Zinc Phthalocyanine Dimers Self-Assembled via Hydrogen Bonding

S40-04

**Breanna Muldowney** (*University of Tennessee Knoxville, Knoxville, USA*), Benjamin Childs, Michael Gutiérrez, Michael Hendrich, Viktor Nemykin

Cobalt (II) and Cobalt (III) Phthalocyanine Amine Complexes

S40-05

**Cora A. Noble** (*Department of Chemistry and Chemical Biology, Cornell University, Ithaca, USA*), Thomas M. Khazanov, Andrew J. Musser

Can Strong-Light Matter Coupling Modify Potential Energy Surfaces?

S40-06

**Martin Presselt** (*Leibniz-Institut für Photonische Technologien e. V. (IPHT), Jena, Germany*), Anna Elmanova, Arghyadeb Roy, Maximilian L. Hupfer

Ab-initio Mapping of  $\pi$ -Stacking Motifs in 5,10,15,20-Tetrakis(4-aminophenyl)porphyrin (TAPP): From Dimer Landscapes to Extended Aggregates

S40-07

**Martin Presselt** (*Leibniz IPHT, Jena, Germany*), Arghyadeb Roy, Anna Elmanova, Sujith Jayan, Maximilian L. Hupfer, Todd J. Martínez, Daniel T. Gryko

First-Principles Analysis of Protonation-Induced Electronic Effects in Tetrakis(p-aminophenyl) porphyrin (TAPP)

S40-08

**Masahiko Taniguchi** (*Department of Chemistry, North Carolina State University, Raleigh, USA*),  
Jonathan Lindsey

Absorption and fluorescence spectra of tetrapyrroles –collected with friends and chatbots for  
PhotochemCAD

S40-09

**Victoria Villarreal** (*The University of Tennessee - Knoxville, Knoxville, USA*), Andrew Healy, Rachel Swedin,  
Michael Gutierrez, David Blank, Victor Nemykin

Influence of Molecular Rotation on the Stability of Charge-Separated State in Non-Fullerene  
Supramolecular Assemblies

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## 41. Theory and spectroscopy

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S41-01

**Anas Santria** (*The University of Osaka, Toyonaka, Japan*), Yutaro Sakaguchi, Naoto Ishikawa

Magnetic Interaction in the Excited State of Triple-Decker Lanthanide Phthalocyanine Complexes

S41-02

**Barbara Ventura** (*Istituto per la Sintesi Organica e la Fotoreattività (ISOF) – Consiglio Nazionale delle  
Ricerche (CNR), Bologna, Italy*), Federica Ruani, Sonia Adrouche, Gianluca Dell'Orletta, Daniel Sánchez-Resa,  
Andrea Barbieri, Stéphanie Durot, Isabella Daidone, Valérie Heitz, Nicola Armaroli

A spectroscopic and computational analysis of the interaction of a porphyrinic cage  
with ethionamide

S41-03

**Yuriy Zhabanov** (*Ivanovo State University of Chemistry and Technology, Ivanovo, Russia*), Dmitriy Vyalkin,  
Ulyana Petrova, Alina Knyazeva, Alexey Eroshin

Molecular structure and electron density distribution of tetrakis(1,2,5-thiadiazole)porphyrazine  
complexes



# Participants by Country

## Participants by Country

### Australia

Bell, *Stephen*  
Chen, *Min*  
Deng, *Wei*  
Peeks, *Martin*

### Austria

Borisov, *Sergey*  
Kräutler, *Bernhard*  
Schöfberger, *Wolfgang*  
Tomat, *Elisa*

### Belgium

Alonso Giner, *Mercedes*  
Theysmans, *Nele*

### Brazil

de Siervo, *Abner*  
Kurachi, *Cristina*

### Canada

Beharry, *Andrew*  
Bender, *Timothy*  
Chen, *Juan*  
Cheng, *Miffy Hok Yan*  
Kassab, *Giulia*  
Lessard, *Benoît*  
Leznoff, *Daniel*  
Liu, *Runchang*  
Liu, *Angelina*  
Lopez-Miranda, *Ivonne Rebeca*  
Mercier, *Dennis*  
Nichols, *Eva*  
Stillman, *Martin J.*  
Zheng, *Gang*

### Chile

Zagal, *José H.*

### China

Chen, *Zhaolin*  
Furuta, *Hiroyuki*  
Hirao, *Hajime*  
Lam, *Pak Lun*  
Lei, *Chuanhu*  
Li, *Qizhao*  
Li, *Chengjie*  
Liu, *Shunjie*  
Lo, *Pui Chi*  
Miao, *Qian*

Ng, *Dennis K. P.*  
Osuka, *Atsuhiko*  
Wang, *Xianhong*  
Wang, *Jia-Wei*  
Wang, *Shuai*  
Wong, *Ka Leung*  
Xie, *Yongshu*  
Xie, *Jiaen*  
Xue, *Yang*  
Yeung, *Yik-Hoi*  
Zhang, *Jun-Long*

### Croatia

Malatesti, *Nela*

### Cyprus

Pinakoulaki, *Eftychia*  
Varotsis, *Constantinos*

### Czech Republic

Bednárík, *Stefan*  
Demuth, *Jiri*  
Kozlíková, *Magdaléna*  
Lmcharrag, *Khaoula*  
Machacek, *Miloslav*  
Martínková, *Markéta*  
Nehra, *Nidhi*  
Novakova, *Veronika*  
Rodrigues, *Leon David*  
Rohlícková, *Monika*

### Estonia

Osadchuk, *Irina*

### Finland

Anaya-Plaza, *Eduardo*  
Efimov, *Alexander*  
Pätsch, *Sebastian*  
Rodriguez Perez, *Obed*  
Sundholm, *Dage*

### France

Anxolabéhère, *Elodie*  
Bouvet, *Marcel*  
Buenos, *Albert*  
Campidelli, *Stephane*  
Clement, *Sébastien*  
Colomban, *Cedric*  
Costentin, *Cyrille*  
Desbois, *Nicolas*  
Devillers, *Charles*

Gary-Bobo, *Magali*  
Gotico, *Philipp*  
Gros, *Claude*  
Guilard, *Roger*  
Heitz, *Valérie*  
Hellwig, *Petra*  
Ivancich, *Anabella*  
Kumar, *Abhishek*  
Makky, *Ali*  
Odobel, *Fabrice*  
Padgett, *Matthew*  
Paul-Roth, *Christine Odile*  
Richeter, *Sébastien*  
Robert, *Marc*  
Siri, *Olivier*  
Sol, *Vincent*  
Sorokin, *Alexander*  
Surin, *Kenberson*  
Weiss, *Jean*  
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### Germany

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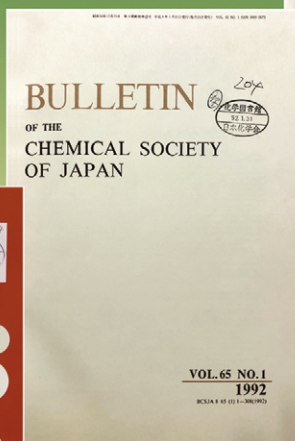
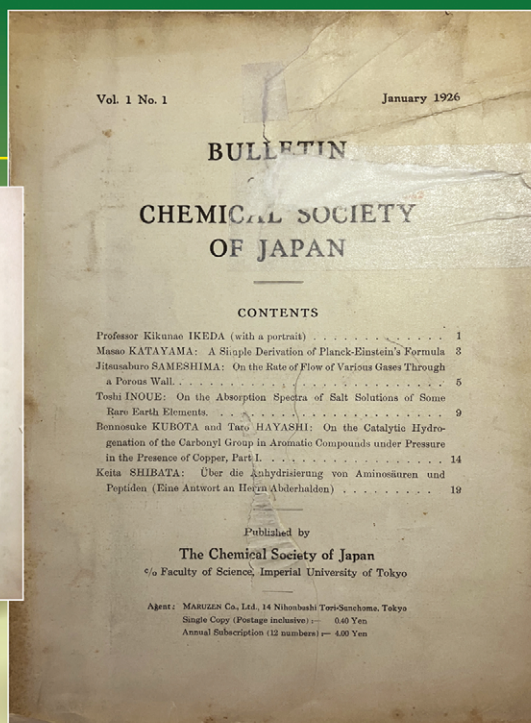
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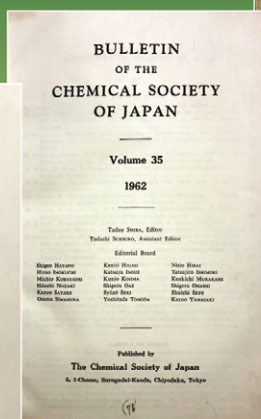


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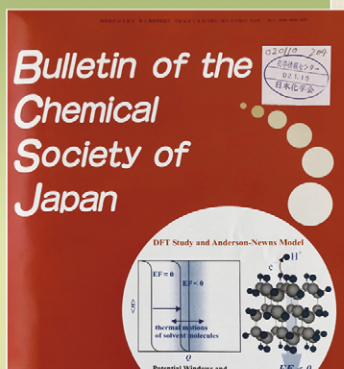
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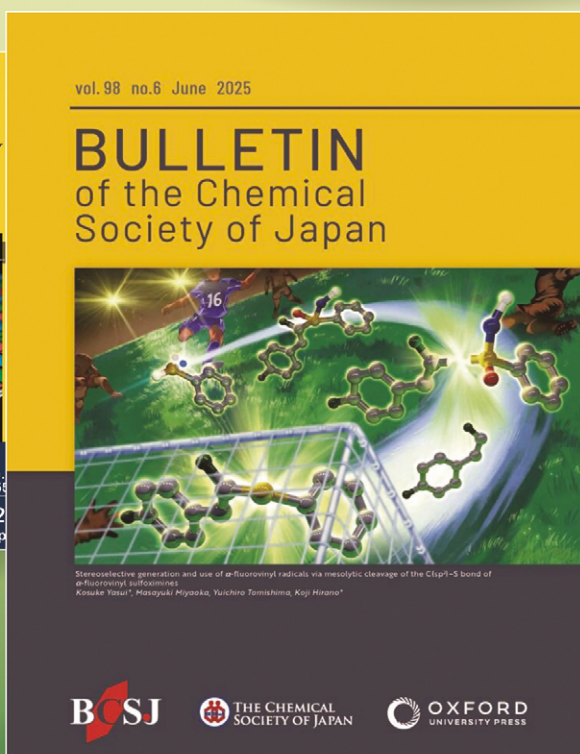
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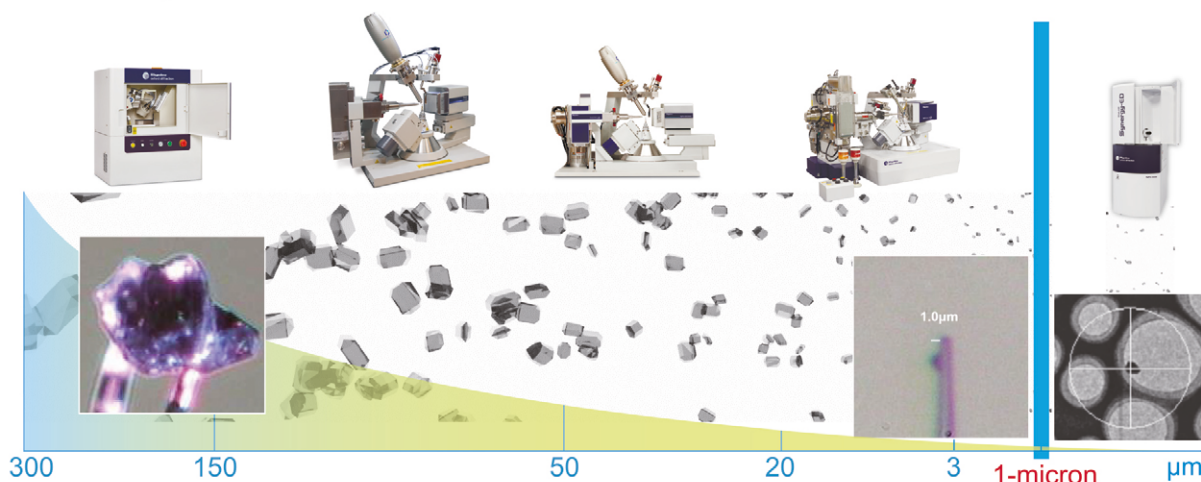


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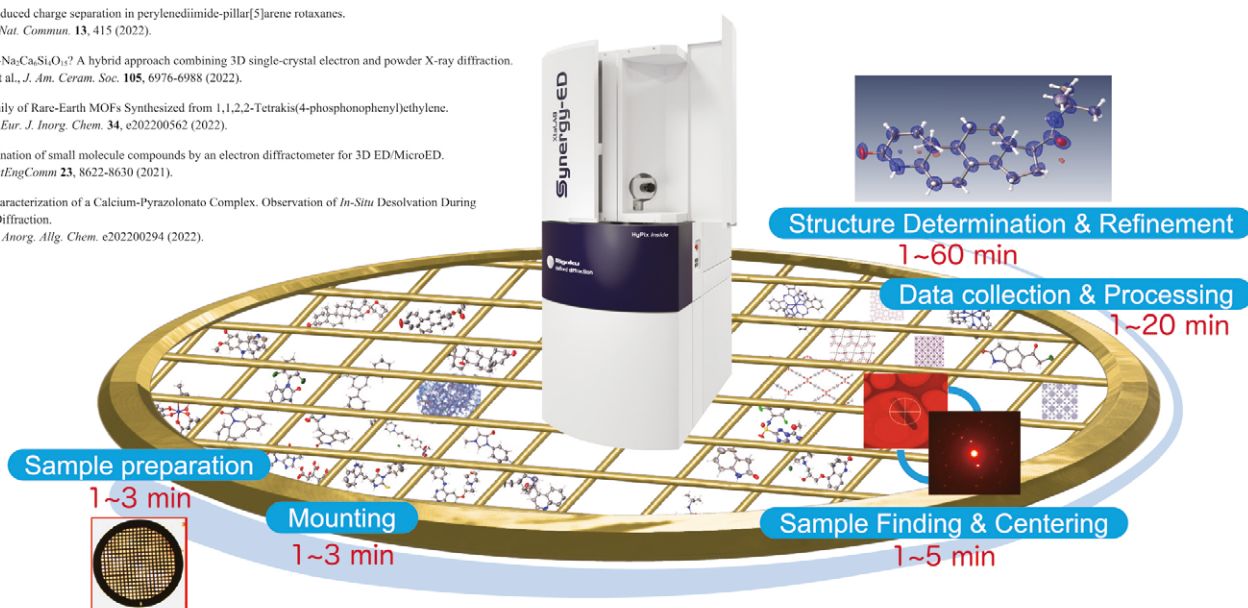
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### Monday, June 29

#### Morning Shuttle Service

---

##### Departure times from RIHGA Royal Hotel

- 1 7:50 / 8:20
- 2 8:00 / 8:30
- 3 8:10 / 8:40

*Three buses operating two round trips*

#### Evening Shuttle Service

---

##### Departure times from Kyoto Terrsa

18:40 / 19:10

*Three buses operating two round trips*

---

### Tuesday, June 30

#### Morning Shuttle Service

---

##### Departure times from RIHGA Royal Hotel

- 1 7:50 / 8:20
- 2 8:00 / 8:30
- 3 8:10 / 8:40

*Three buses operating two round trips*

#### Evening Shuttle Service

---

##### Departure times from Kyoto Terrsa

- 1 18:40 / 19:20 / 20:00 / 20:40
- 2 19:00 / 19:40 / 20:20 / 20:50

*Two buses operating two round trips*

---

### Wednesday, July 1

#### Morning Shuttle Service

---

##### Departure times from RIHGA Royal Hotel

- 1 7:50 / 8:20
- 2 8:00 / 8:30
- 3 8:10 / 8:40

*Three buses operating two round trips*

#### Midday Shuttle Service

---

##### Departure times from RIHGA Royal Hotel

11:45 / 12:15

*For accompanying persons going on excursions.*

---

### Thursday, July 2

#### Morning Shuttle Service

---

##### Departure times from RIHGA Royal Hotel

- 1 7:50 / 8:20
- 2 8:00 / 8:30
- 3 8:10 / 8:40

*Three buses operating two round trips*

#### Evening Shuttle Service

---

##### Departure times from Kyoto Terrsa

- 1 18:40 / 19:20 / 20:00 / 20:40
- 2 19:00 / 19:40 / 20:20 / 20:50

*Two buses operating four round trips*

---

### Friday, July 3

#### Morning Shuttle Service

---

##### Departure times from RIHGA Royal Hotel

- 1 7:50 / 8:20
- 2 8:00 / 8:30
- 3 8:10 / 8:40

#### Evening Shuttle Service

---

##### Departures from Kyoto Terrsa

*After Closing Ceremony : TBA*



# ICPP14 | K Y O T O



## Full Schedule

### SUN. 28 JUNE

### MON. 29 JUNE

### TUE. 30 JUNE

### WED. 1 JULY

### THUR. 2 JULY

### FRI. 3 JULY

09:00-09:30

Opening Ceremony

09:00-10:00

**Lifetime Award**  
Takashi Hayashi

**SPP/JPP Young Investigator Awards**  
09:00 - 10:30

**Lifetime Award**  
José H. Zagal

**Lifetime Award**  
Harry L. Anderson

09:30-10:30

**Lifetime Award**  
Francis D'Souza

10:00-10:30

coffee break

coffee break

coffee break

coffee break

10:30-11:00

coffee break

10:30-12:50

**Orals**

coffee break

**Lever Award** 11:00 - 11:30

**Orals**

**Orals**

11:00-13:00

**Orals**

**lunch**  
12:15 - 13:45

**lunch**  
12:00 - 13:45

**group photo all participants**

**Lunch** 12:00 - 12:30  
boxed lunch distribution

**Orals**

**lunch**  
12:00 - 13:45

**Orals**

**lunch**  
12:00 - 13:45

**Registration**

13:00 - 16:00

**Kyoto TERRSA  
Conference Center  
Main Lobby**

14:00-16:00

**Orals**

14:00-16:00

**Orals**

**Excursions**

12:30 - 18:00

1. Kinkaku-ji & Ryoan-ji
2. Ginkaku-ji & Philosopher's Path
3. Arashiyama Area
4. Fushimi Inari
5. Uji & Byodoin Temple
6. Takao Mountain Temples
7. Company Tour - HORIBA
8. Company Tour - SHIMADZU

**Orals**

**Orals**

16:00-16:30

coffee break

16:00-16:30

coffee break

**Excursions**

coffee break

short coffee break

16:30-18:30

**Orals**

16:30-18:30

**Orals**

**Excursions**

**Orals**

**SPP Meeting *Future of ICPP*  
& Closing Ceremony**  
16:15 - 17:15

**Welcome Reception**

18:30 - 20:30

**RIHGA Royal Hotel  
Shunju Banquet Hall**

18:30-20:30

**Poster Session 1**

**Floor 2**

Seminar Room 3  
Conference Room 9  
Training Room

**Gala Dinner**

**(Tickets only)**

19:00 - 22:30

**RIHGA Royal Hotel  
Shunju Banquet Hall**

**Poster Session 2**

**Floor 2**

Seminar Room 3  
Conference Room 9  
Training Room