

INTERNATIONAL CONFERENCE ON
PORPHYRINS & PHTHALOCYANINES

ICPP-13 NIAGARA 23-28 JUNE 2024 FALLS & BUFFALO USA

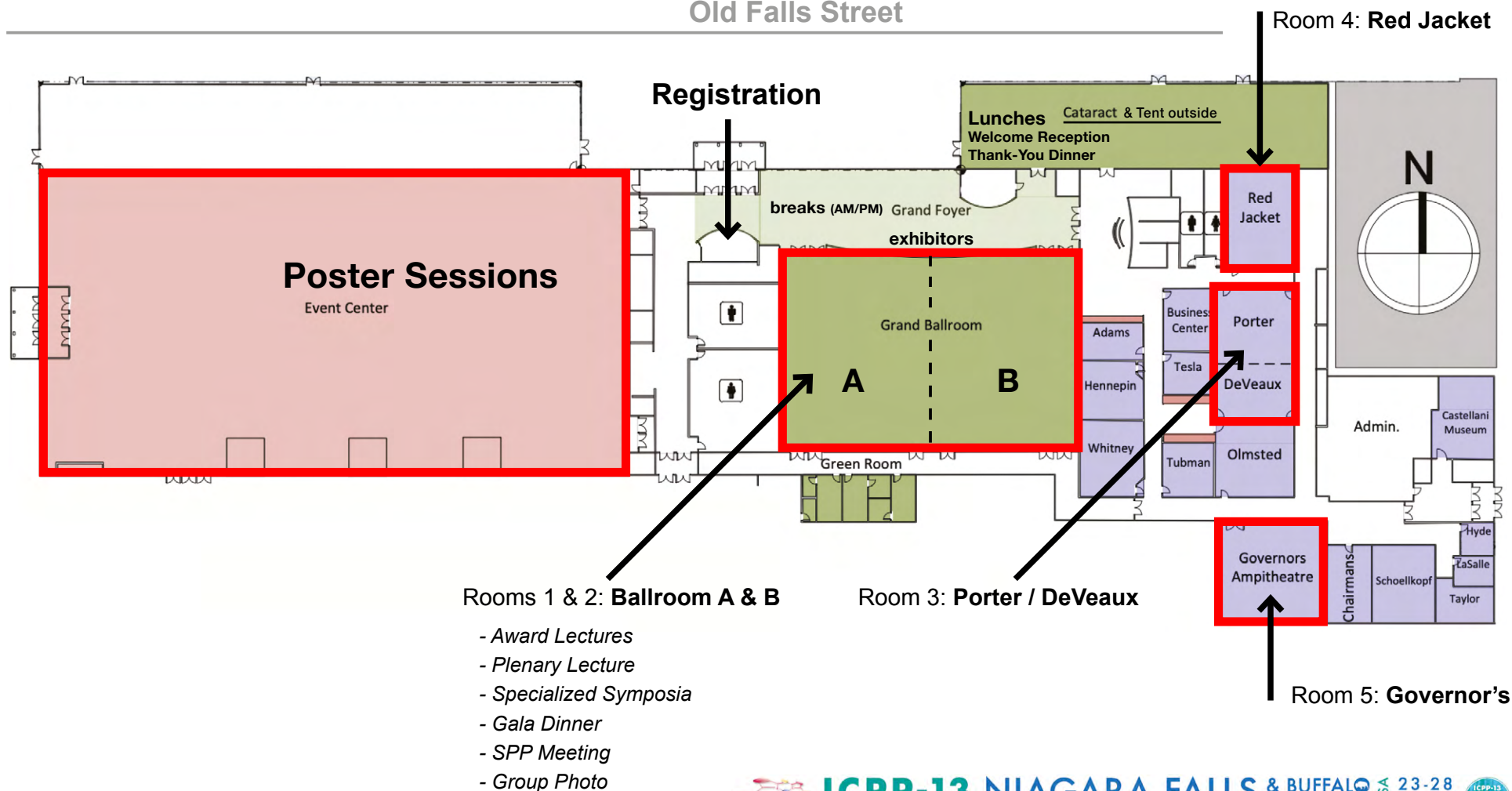
SCIENTIFIC PROGRAM

NIAGARA FALLS CONVENTION CENTER
101 OLD FALLS STREET NIAGARA FALLS, NY 14303, USA

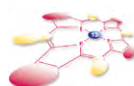
HOST & CO-CHAIR RAVINDRA PANDEY
CO-CHAIR & SPP VICE-PRESIDENT FRANCIS D'SOUZA
CO-ORGANIZER & SPP PRESIDENT KARL KADISH
CO-ORGANIZER MATTHEW PADGETT

www.icpp-spp.org

Old Falls Street



Overall Conference Schedule



ICPP-13 NIAGARA FALLS & BUFFALO
 INTERNATIONAL CONFERENCE ON PORPHYRINS & PHTHALOCYANINES
 www.icpp-spp.org USA 23-28 JUNE 2024



	SUNDAY 23 JUNE	MONDAY 24 JUNE	TUESDAY 25 JUNE	WEDNESDAY 26 JUNE	THURSDAY 27 JUNE	FRIDAY 28 JUNE
08:00-08:30		Opening Ceremony				
08:30-09:30		Hans Fischer Award Roberto Paolesse	Dougherty Award Merrill Biel	Eraldo Antonini Award Ann English	Woodward Award Hiroshi Imahori	Linstead Award Martin Stillman
09:30-10:00		coffee break	coffee break	Tribute to Jim Kincaid coffee break 09:50-10:20	coffee break	coffee break
10:00-12:00		Orals	Orals	SPP/JPP Awards 10:20-11:20 lunchboxes 11:20-12:00	Orals	Orals
12:00-13:30		lunch	lunch	Excursions 12:00-17:00 • Baseball Buffalo Bisons vs. Syracuse Walk "Cave of the Winds" & boat ride "Maid of the Mist" • Visit Roswell Park Comprehensive Cancer Center & boat ride "Maid of the Mist"	lunch	lunch
13:30-15:30		Orals	Orals		Orals	Orals
15:30-16:00		coffee break	coffee break		coffee break	coffee break
16:00-17:00		Orals	Orals		Orals	Orals
17:10-17:30		group photo <i>all participants</i>				
17:30-17:45		SPP Meeting <i>all participants</i>				
17:45-18:15		Plenary Gang Zheng	Poster Session 17:30-19:30			
	Welcome Reception 18:30-20:30			Gala Dinner <i>Ticket only</i> 18:30-22:00	Poster Session 18:00-20:00	Thank You Dinner <i>All participants</i> 18:30-22:00

Sponsors of Lifetime Achievement Awards

Roswell Park Comprehensive Cancer Center

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Sponsors of SPP-JPP Young Investigator Awards

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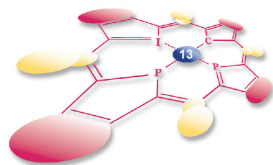
As a world leader in basic and clinical research on cancer imaging and therapy including PDT, Roswell Park Comprehensive Cancer Center's revolutionary model of a **"multidisciplinary approach"** to cancer — ***with scientists and clinicians working in concert and in consult*** — has become the standard by which all modern-day comprehensive cancer centers are measured.



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INTERNATIONAL CONFERENCE ON PORPHYRINS & PHTHALOCYANINES

ICPP-13

23-28 JUNE 2024

www.icpp-spp.org

**NIAGARA
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& BUFFALO** USA



Scope of the Conference

All aspects of porphyrins, phthalocyanines and related macrocycles will be discussed in the form of a plenary lecture, invited lectures, orals and poster presentations over the full five-day period of the meeting.

Five scientists will be honored by Lifetime Achievement Awards in 2024

and two JPP/SPP Young Investigator Awards will also be presented at the meeting.

All awards will be accompanied by highlighted award lectures.

Chairs

Ravindra Pandey - ICPP-13 Host & Chairman

Roswell Park Comprehensive Cancer Center. USA. - ravindra.pandey@roswellpark.org

Francis D'Souza - ICPP-13 SPP Vice President & Co-Chair

University of North Texas. USA. - francis.dsouza@unt.edu

ICPP-13 Local Organizing Committee

Timothy Cook - University at Buffalo - NY. USA

Jonathan Lovell - University at Buffalo - NY. USA

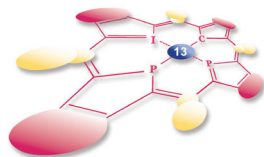
Adam Sumlin - Roswell Park Comprehensive Cancer Center - NY. USA

Graça Vicente - Louisiana State University - LA. USA

Youngjae You - University at Buffalo - NY. USA

Gang Zheng - University Health Network (UHN) - Ont. Canada

Organized by



Society of Porphyrins and Phthalocyanines (SPP)

Karl M. Kadish - SPP Office Houston : icpp@uh.edu

Matthew Padgett - SPP Office Dijon : icpp@spp-jpp.org

ICPP-13 website : <http://www.icpp-spp.org>

SPP website : <https://www.spp-jpp.org>

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Society of Porphyrins & Phthalocyanines | Journal of Porphyrins and Phthalocyanines

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The electrochemistry bible
of the porphyrinoid community

Volume 10

Series on Chemistry, Energy and the Environment

Electrochemistry of Metalloporphyrins

Karl M. Kadish, W. Ryan Osterloh
and Eric Van Caemelbecke

Series Editors

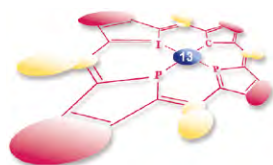
Karl M. Kadish • Roger Guillard

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ICPP-13

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**NIAGARA
FALLS** USA
& BUFFALO



Scientific Program

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Information

Excursions in Niagara Falls (walking)



Cave of the Winds (from Conference Center)

10 Goat Island Road, Niagara Falls

Wooden walkways to the base of the Bridal Veil Falls.

Please bring footwear that can get wet ! Ponchos will be provided but you will still get a bit wet!

Depart on foot by **12:30** from Conference Center
13:00 - Start lining up for elevators (groups of 80)



Maid of the Mist (from Cave of the Winds)

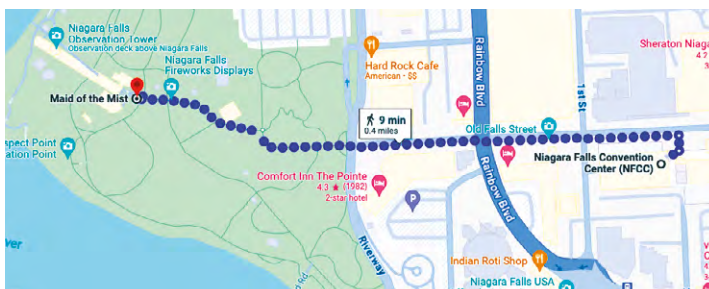
Niagara Reservation State Park at Prospect Point

The world-famous boat ride - **Ponchos provided !**

Depart on foot by **14:40** from Cave of the Winds

Arrive before **15:15** for boarding at 15:30.

Wait for organizers at side of ticket booth.



Maid of the Mist (from Conference Center)

Niagara Reservation State Park at Prospect Point

The world-famous boat ride - **Ponchos provided !**

Depart on foot by **14:40** from Conference Center

Arrive before **15:15** for boarding at 15:30.

Wait for organizers at side of ticket booth.

Sunday June 23, 2024

Conference Registration 13:30 to 18:00 *Main Reception - (Registration will be open daily)*

Welcome Reception 18:30 to 20:30 *Street Tent & Niagara Falls Conference Center*

Monday June 24, 2024

Opening Ceremony 08:00 to 08:30 *Grand Ballroom - Niagara Falls Conference Center*

Group Photo (all participants) 17:10 to 17:30 *Grand Ballroom - Niagara Falls Conference Center*

SPP Meeting (all participants) 17:30 to 17:45 *Grand Ballroom - Niagara Falls Conference Center*

Wednesday June 26, 2024

Excursions (pre-chosen)

Roswell Park Comprehensive Cancer Center in Buffalo

11:45 - Depart by bus from Niagara Falls Conference Center and return before **14:45** for Maid of the Mist trip (15:30)

Baseball Match : Buffalo Bisons vs. Syracuse in Buffalo

12:00 - Depart by bus from Niagara Falls Conference Center for game starting at **13:00**

Cave of the Winds (10 Goat Island Road, Niagara Falls) - Wooden walkways to the base of the Bridal Veil Falls.

*Tickets distributed at lunch - Depart on foot by **12:30** from Conference Center - **Please bring footwear that can get wet !***

13:00 - Start lining up for elevators in groups of 80 - **Ponchos provided ! see map for directions**

*Maid of the Mist (Niagara Reservation State Park at Prospect Point) - The world-famous boat ride - **Ponchos provided !***

*Depart on foot at **14:40** from Conference Center or Cave of the Winds - **see map for directions about boarding at 15:15.***

Gala Dinner (ticket only) 18:30 to 22:00 *Grand Ballroom - Niagara Falls Conference Center*

Friday June 28, 2024

Closing Ceremony 17:00 *Grand Ballroom - Niagara Falls Conference Center*

Thank-You Dinner (all participants) 18:30 to 22:00 *Street Tent & Niagara Falls Conference Center*

Monday June 24, 2024 - Morning

MONDAY

Opening Ceremony

08:00 to 08:30

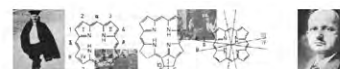
Warm Welcome by **Karl Kadish**, President SPP & ICPP Organizer

Ravindra Pandey, ICPP-13 Host & Co-Chair & **Francis D'Souza**, ICPP-13 Co-Chair

Robert Restaino, Honorable Mayor of Niagara Falls, New York - Chief Guest

Lifetime Achievement Award Lecture

Room : Grand Ballroom



Hans-Fischer-Gesellschaft

Chaired and laudation by: Karl Kadish

08:30 to 09:30 **Hans Fischer Career Award in Porphyrin Chemistry Lecture**

Roberto Paolesse (University of Rome Tor Vergata, Rome, Italy)

Corrole: the lord of the contracted porphyrinoids!

09:30 to 10:00 Coffee Break

21. Catalysis

Room 1 : Ballroom A

Chaired by: Dorota Gryko & Peter Zhang

10:00 to 10:20 Invited lecture

Peter Zhang (Department of Chemistry; Boston College, Chestnut Hill, USA)

Open-Shell Metalloporphyrins as Metalloradical Catalysts for Homolytic Radical Reactions

10:20 to 10:40 Invited lecture

Zeev Gross (Schulich Faculty of Chemistry, Haifa, Israel)

The Silver Anniversary of Catalysis by Triarylcorrole Metal Complexes

10:40 to 11:00 Invited lecture

Hisashi Shimakoshi (Faculty of Engineering/Kyushu University, Fukuoka, Japan)

Photoredox catalysis of B12 derivative in green organic synthesis

11:00 to 11:20 Invited lecture

Timothy Cook (Department of Chemistry, University at Buffalo, Buffalo, USA), Matthew Crawley, Daoyang Zhang

Coordination-Driven Self-Assembly of Multi-Porphyrin Architectures for Small Molecule Activations

11:20 to 11:40 *Invited lecture*

Ulrike Kramm (*Chemistry / TU Darmstadt, Darmstadt, Germany*), Nils Heppe

From porphyrins towards FeN₄ centers embedded in carbon – Impact on the electrocatalysis

11:40 to 12:00 *Invited lecture*

Lior Elbaz (*Bar-Ilan University, Ramat-Gan, Israel*), Yeela Persky, Lukasz Kielesinski, Daniel Gryko

Synergistic Effect of Copper Corrole and Iron Porphyrin in Porphyrrole Aerogel for the Electrocatalysis of Oxygen Reduction Reaction

12:00 to 12:10

Sameeta Sahoo (*University of Virginia, Charlottesville, USA*), Elizabeth Johnson, Charles W Machan

Investigating the Influence of Polymer-Catalyst Interaction on Water Electrolysis in Alkaline Environment using Bifunctional Cobalt Corroles

12:10 to 12:20

Drialys Cardenas Morcoso (*Luxembourg Institute of Science and Technology, Esch-sur-Alzette, Luxembourg*), Deepak Bansal, Nicolas Boscher

Examining the Role of Conjugated Porphyrin Polymer Thin Films in Oxygen Evolution Reaction Electrocatalysis.

10. NIR-responsive porphyrinoids

Room 2 : Ballroom B

Chaired by: Yoshihiro Matano, Hiroko Yamada & Taniyuki Furuyama

10:00 to 10:20 *Invited lecture*

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

Anion exchange of cyclo[8]pyrrole: polyoxometalate and phosphonate complexes

10:20 to 10:40 *Invited lecture*

Mitsuhiko Morisue (*Kyoto Institute of Technology, Kyoto, Japan*), Minami Nakamura, Sono Sasaki, Kenya Shinozaki, Munetaka Iwamura, Koichi Nozaki

Exciton-Band Engineering of Glassy Porphyrin Assemblies for Near-Infrared Luminescence: Synthesis, Supramolecular Organization, and Femtosecond Photodynamics

10:40 to 11:00 *Invited lecture*

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

Doubly N-Confused Dioxoheptaphyrin: Near-infrared Photothermal Conversion

11:00 to 11:20 *Invited lecture*

Daniel Leznoff (*Department of Chemistry, Simon Fraser University, Burnaby, Canada*)

Using Axial and Side-Pocket Ligation Sites to Impact the NIR Optical Properties of Metallophthalocyanines

11:20 to 11:40 *Invited lecture*

Taniyuki Furuyama (*NanoMaterials Research Institute, Kanazawa University, Kanazawa, Japan*)
Functional Integration of Near-infrared-light-absorbing Ball-shaped Metal Complexes

11:40 to 12:00 *Invited lecture*

Marcin Stepień (*Faculty of Chemistry, University of Wrocław, Wrocław, Poland*)
Donor–Acceptor Oligopyrroles and Beyond. Functional Aromatics via Naphthalimide Fusion

16. Porphyrinoids at interfaces

Room 3 : Porter / Devaux

Chaired by: Willi Auwärter, David Écija, Ursula Mazur, Kerry Hipps & Wolfgang Schöfberger

10:00 to 10:20 *Invited lecture*

Willi Auwärter (*Technical University of Munich (TUM), Garching, Germany*)
Nonplanar Porphyrins and Carpyridines on Coinage Metals

10:20 to 10:40 *Invited lecture*

Johannes Barth (*Physics, GARCHING, Germany*)
Nanoscale Science with Porphyrins in Relation to On-Surface Chemistry and Metallosupramolecular Engineering of low-D Nanoarchitectures
Johannes V. Barth Physics Department E20, Technical University

10:40 to 11:00 *Invited lecture*

Feifei Xiang (*Swiss Federal Laboratories for Materials Science and Technology, Dübendorf, Switzerland*),
Qiang Sun, Yanwei Gu, Luis M. Mateo, Amogh Kinikar, Nicolo Bassi, Andres Ortega-Guerrero, Kristjan Eimre, Carlo Pignedoli, Giovanni Bottari, Tomás Torres, Klaus Müllen, Pascal Ruffieux, Roman Fasel
Porphyrin-Graphene Hybrid Systems

11:00 to 11:20 *Invited lecture*

Alex Saywell (*School of Physics and Astronomy, University of Nottingham, Nottingham, United Kingdom*)
On-surface synthesis of porphyrin-graphene nanoribbons and porphyrin polymers

11:20 to 11:40 *Invited lecture*

David Ecija (*IMDEA Nanociencia, 28049, Spain*)
Engineering open-shell porphyrin nanoarchitectures on surfaces

11:40 to 12:00 *Invited lecture*

Guillaume Schull (*CNRS - IPCMS, Strasbourg, France*)
Sub-molecular fluorescence microscopy of Phthalocyanine molecules with STM

39. Heme enzymes: Structure and function

Room 4 : Red Jacket

Chaired by: Denis Rousseau & Syun-Ru Yeh

10:00 to 10:20 Invited lecture

John Hackett (*Chemistry & Biochemistry, Florida International University, Miami, USA*), Francisco Zarate-Perez, Lorela Paco, William Atkins

Cytochrome P450 19A1 dynamics and ligand recognition in membranes

10:20 to 10:40 Invited lecture

Juan Lopez-Garriga (*Industrial Biotechnology, University of Puerto Rico, Mayagüez Campus, Mayaguez, Puerto Rico, USA*), Péter Nagy, Bessie Ríos, Andrea Domán, Tamás Ditrói, Dorottya Garai, Gary Gerfen, Paul Furtmüller, Cacimar Ramos

Lactoperoxidase Catalytically Oxidizes Hydrogen Sulfide via the Intermediate Formation of Sulfheme Derivatives

10:40 to 11:00 Invited lecture

Yilin Liu (*Chemistry Department/ University of Akron, Akron, USA*), Emily E, Weinert, Nushrat J, Hoque, Shannon Rivera, Dayna C, Patterson

Resonance Raman Studies of Heme Pocket Residues in Globin-Coupled Sensors: Impact of Mutations on Structure and Diguanilate Cyclase Activity

11:00 to 11:20 Invited lecture

Gayan Wijeratne (*Department of Chemistry and Biochemistry, University of Alabama, Tuscaloosa, USA*), Pritam Mondal, Shanuk Rajapakse, Samith Jayawardana, Izumi Ishigami, Syun-Ru Yeh

Modeling Bioinspired Reactivities of Heme Peroxo Intermediates: Nitric Oxide Synthase and Beyond

11:20 to 11:40 Invited lecture

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

Feedback Regulation Mechanism of Human Tryptophan Dioxygenase

11:40 to 12:00 Invited lecture

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

Structure of Oxidized Cytochrome c Oxidase

12:00 to 12:20 Invited lecture

George Richter-Addo (*Department of Chemistry and Biochemistry, University of Oklahoma, Norman, USA*), Jennifer Londoño-Salazar, Zheng Pei, Chance Lander, Megan Ayala, Ye Guan, Yihan Shao

Interactions of Hydroxylamines and Aldoximes with Synthetic Metalloporphyrins

25. Porphyrin derivatives for medical and biological applications

Room 5 : Governor's



MONDAY

Chaired by: Graca Vicente & Mariette Pereira

10:00 to 10:20 Invited lecture

Mariette M. Pereira (*Chemistry Department University of Coimbra, Coimbra, Portugal*), Rafael Aroso, Madalena Silva, Carolina Domingos

Synthesis of Porphyrins Through Continuous Flow Processes and Their Structural Effect on the Photoinactivation of bacteria

10:20 to 10:40 Invited lecture

Janusz M. Dabrowski (*Faculty of chemistry Jagiellonian University, Kraków, Poland*)

Functionalized fluorinated bacteriochlorins for photoimmunotherapy

10:40 to 11:00 Invited lecture

Stéphanie Leroy-Lhez (*LABCiS - Limoges University, Limoges cedex, France*), Nidia Maldonado-Carmona, Giusi Piccirillo, Nicolas Villandier, Tan-Sothéa Ouk, Mário J. F. Calvete, Mariette M. Pereira

Using modified lignin nanoparticles as a versatile and environmentally friendly formulation for photosensitizer for photodynamic antimicrobial chemotherapy as photodegradation of antibiotics

11:00 to 11:20 Invited lecture

Eva Toth (*Centre for Molecular Biophysics, CNRS, Orléans, France*)

MRI Contrast Agents Based on Porphyrin Complexes

11:20 to 11:40 Invited lecture

Giuseppe Pomarico (*Sapienza - University of Rome, Department of Chemistry, Rome, Italy*), Miriam Romano, Annalisa Radeghieri, Paolo Bergese, Federica Mandoj, Roberto Paolesse

Preparation and biological evaluation of metallocorrole-bioconjugates for theranostic.

11:40 to 12:00 Invited lecture

Irina Nesterova (*Chemistry and Biochemistry, Northern Illinois University, DeKalb, USA*), Evgueni Nesterov, Harouna Amadou, Haniyeh Jadidi, Alan Calderon

Phthalocyanines as imaging tools for the assessment of small-molecule inhibitors in live cells

Monday June 24, 2024 - Afternoon

2. Corroles

Room 1 : Ballroom A

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

13:30 to 13:50 Invited lecture

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

Metalloporphyrin dimers and sandwiches

13:50 to 14:10 Invited lecture

Atif Mahammed (*Technion-Israel Institute of Technology, Haifa, Israel*), Zeev Gross

Synthesis and Applications of New Phosphorus Corroles

14:10 to 14:30 Invited lecture

Takayuki Tanaka (*Graduate School Engineering, Kyoto University, Kyoto, Japan*), Kento Ueta, Akito Nakai, Atsuhiko Osuka

Antiaromaticity of 8,10-Fused Iminoporphyrins

14:30 to 14:50 Invited lecture

Daniel Gryko (*Institute of Organic Chemistry, Polish Academy of Sciences, Warsaw, Poland*), Lukasz Kielesinski, Abhik Ghosh

The synthesis of π -expanded corroles

14:50 to 15:10 Invited lecture

Sara Nardis (*University of Rome Tor Vergata, Rome, Italy*), Francesco Pizzoli, Alessandro Mita, Luca Prodi, Kevin Smith, Frank Fronczek, Roberto Paolesse

Old reactions and new compounds

15:10 to 15:30 Invited lecture

Claude P. Gros (*ICMUB - UMR CNRS 6302, Dijon, France*), Laurie André, Nicolas Desbois, Stéphane Brandès, Ken Rapady, Gaëlle Divoux, Margerie Loze, W. Ryan Osterloh, Virginie Blondeau-Patissier

Corroles and Porphyrins based MOFs and MIPs for the Detection of Toxic Gases

15:30 to 16:00

Coffee Break

MONDAY

16:00 to 16:20 *Invited lecture*

Christopher Lemon (*Department of Chemistry and Biochemistry, Montana State University, Bozeman, USA*),
David Powers, Michael Huynh, Andrew Maher, Austin Phillips, Brian Tripet, Daniel Nocera

Ag(III)···Ag(III) Argentophilic Interactions in Silver Corroles

16:20 to 16:40 *Invited lecture*

Jeyaraman Sankar (*IISER Bhopal, Bhopal, India*)

Structural Modulation on Corroles for Optical and Magnetic Applications

16:40 to 17:00 *Invited lecture*

Joana Barata (*University of Aveiro, Aveiro, Portugal*), Pedro Conceição, Miguel A. Hernández-Rodríguez,
Paula S.S. Lacerda, Maria G. M. P. S. Neves, Luís D. Carlos, Tito Trindade

Luminescence studies of nanocrystals decorated with corroles

Group Photo (*all participants*)

Room : Grand Ballroom

17:10 to 17:45

SPP Meeting (*all participants*)

Room : Grand Ballroom

17:30 to 17:45

Plenary Lecture

Room : Grand Ballroom

17:45 to 18:15 *Chaired and laudation by: Ravindra Pandey*

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

Porphysome Nanotechnology: From Discovery to Translation and Beyond

11. Advances in chemistry and applications of porphyrazines

Room 2 : Ballroom B

Pavel Stuzhin & Petr Zimcik

13:30 to 13:50 Invited lecture

Yoshihiro Matano (*Department of Chemistry, Faculty of Science, Niigata University, Niigata, Japan*)
Synthesis, Properties, and Application of Azaporphyrinoids Bearing meso-N-Substituents

13:50 to 14:10 Invited lecture

Veronika Novakova (*Department of Pharmaceutical Chemistry and Pharmaceutical Analysis, Faculty of Pharmacy in Hradec Kralove, Charles University, Hradec Králové, Czech Republic*), Michaela Beranova, Miroslav Miletin, Svetlana Ivanova, Petr Zimcik
Si(IV) and Mg(II) as central atoms of tetrapyrazinoporphyrazines

14:10 to 14:30 Invited lecture

Miroslav Miletin (*Department of Pharmaceutical Chemistry and Pharmaceutical Analysis, Faculty of Pharmacy, Charles University, Hradec Kralove, Czech Republic*), Michaela Beranova, Jiri Demuth, Rahul Kaushik, Filip Kostelansky, Petra Grossova
Conjugation of Tetrapyrazinoporphyrazine, BODIPY, Indocyanine and Acridine to Oligonucleotides on Solid Phase.

14:30 to 14:50 Invited lecture

Dorota Chelminiak-Dudkiewicz (*Faculty of Chemistry, Nicolaus Copernicus University in Torun, Torun, Poland*), Aleksander Smolarkiewicz-Wyczachowski, Kinga Mylkie, Marta Ziegler-Borowska
Tailored hybrid nanomaterials functionalized with polysaccharides and porphyrins for biomedical applications

15:30 to 16:00

Coffee Break

MONDAY

16. Porphyrinoids at interfaces

Room 3 : Porter / Devaux

Willi Auwärter, David Écija, Ursula Mazur, Kerry Hipps & Wolfgang Schöffberger

13:30 to 13:50 Invited lecture

J. Michael Gottfried (*University of Marburg, Department of Chemistry, Marburg, Germany*)

On-Surface Chemistry of Porphyrins with Heavy Main-Group Metals and after Electrospray Deposition

13:50 to 14:10 Invited lecture

Wolfgang Schöffberger (*Johannes Kepler University Linz, Linz, Austria*), Houssein Awada, Luyang Song, He Sun, Adrian Dorniak, Farzaneh Yari

Tuning π -Conjugated Corroles for Heterogeneous Catalysis

14:10 to 14:30 Invited lecture

Joe Otsuki (*College of Science and Technology, Nihon University, Tokyo, Japan*)

Coordination-Directed Assemblies of Porphyrins Bearing Coordination Sites

14:30 to 14:50 Invited lecture

Ursula Mazur (*Department of Chemistry and of Materials Science and Engineering Program/Washington State University, Pullman, USA*), K. W. Hipps

Single-molecule approach to probe kinetics and thermodynamics of oxygenation of Co(II) porphyrin at the solution/solid interface

14:50 to 15:10 Invited lecture

Hans Elemans (*Radboud University, Institute for Molecules and Materials, Nijmegen, Netherlands*)

STM studies of metal porphyrin reactivity at solid-liquid interfaces

15:10 to 15:30 Invited lecture

Martin Presselt (*Leibniz Institute of Photonic Technology (IPHT), Jena, Germany*), Sarah Jasmin Finkelmeier, Anna Elmanova, Yisak Tsegazab

Supramolecular Assembly of Amphiphilic Dyes at the Air-Water Interface for the Synthesis of Quasi-two-dimensional Layers

15:30 to 16:00

Coffee Break

MONDAY

12. Main group coordination chemistry

Room 3 : Porter / Devaux

David Churchill & Prashanth Poddutoori

16:00 to 16:20 Invited lecture

Prashanth K. Poddutoori (*Department of Chemistry & Biochemistry, Duluth, USA*), Stefan Charon, Niloofar Zarrabi, Jatan Sharma, Paul Karr, Art van der Est, Francis D'Souza

Aluminum(III) Porphyrin Photosensitizers for Photosynthetic Reaction Center Models and Molecular Thermometer

16:20 to 16:40 Invited lecture

David Churchill (*Korea Advanced Institute of Science and Technology (KAIST), Daejeon, Korea*), Jong-Keol An, Donghyeon Kim, Sudesh Manjare

Trifluoromethylation and Annulation Reactions for Further Postfunctionalization Possibilities with Polypyrrole Systems

23. Spin transport in molecular and nanoscale systems

Room 4 : Red Jacket

Michael Therien & Ron Naaman

13:30 to 13:50 Invited lecture

Jeanne Crassous (*Institut des Sciences Chimiques de Rennes, Rennes, France*)

Combining helicenes and porphyrins

13:50 to 14:10 Invited lecture

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

Photogenerated Molecular Spin Qubits and Ground State Spin Polarization

14:10 to 14:30 Invited lecture

David Shultz (*Department of Chemistry, Raleigh, USA*), Anil Reddy Marri, Martin Kirk, Art van der Est

Photoinduced Ground State Electron Spin Polarization of Different Organic Radicals

14:30 to 14:50 Invited lecture

David Waldeck (*Chemistry, Pittsburgh, USA*)

Chiral Molecules and their Chiral Induced Spin Selectivity Response

14:50 to 15:10 Invited lecture

Yossi Paltiel (*Applied physics institute, Jerusalem, Israel*)

From Organic Chiral Molecules to Green Energy

15:10 to 15:30 *Invited lecture*

Francesco Tassinari (*Department of Chemical and Geological Sciences, University of Modena and Reggio Emilia, Modena, Italy*), Alessio Nicolini, Martina Campi, Marco Borsari, Andrea Cornia, Adele Mucci, Roberto Biagi

Chiral Metal-Organic Frameworks as Catalysts for the Oxygen Evolution Reaction

15:30 to 16:00

Coffee Break

16:00 to 16:20 *Invited lecture*

Dali Sun (*Department of Physics, North Carolina State University, Raleigh, USA*)

Anisotropic spin relaxation time in chiral assemblies of π -conjugated polymers

16:20 to 16:40 *Invited lecture*

Ron Naaman (*Dep. of Chemical and Biological Physics, Weizmann Institute, Rehovot, Israel*)

What do we learn from the chiral induced spin selectivity effect on electron transfer?

16:40 to 17:00

S. Furkan Ozturk (*Department of Physics, Harvard University, Cambridge, USA*)

A New Spin on the Origin of Biological Homochirality

30. Anticancer PDT

Room 5 : Governor's

João Tomé

13:30 to 13:50 *Invited lecture*

Joao Tome (*Departamento de Engenharia Química, Lisboa, Portugal*)

Photoactive Bioconjugates and (nano)Materials for Targeted and Enhanced Cancer Photodynamic Therapy

13:50 to 14:10 *Invited lecture*

Fabrice Odobel (*CEISAM, CNRS UMR630, Nantes, France*), Isabelle Toubia, Christophe Nguyen, Darya S. Budkina, Stéphane Diring, Ludivine Larue, Rola Abdallah, Philippe Arnoux, Céline Frochet, Eric Vauthey, Magali Gary-Bobo, Marwan Kobeissi

Gold Porphyrinoid-based Drugs with Anti-Cancer Activity

14:10 to 14:30 *Invited lecture*

Patricia R. Pereira (*Department of Radiology, Mallinckrodt Institute of Radiology, Washington University School of Medicine, St. Louis, Saint Louis, USA*)

Antibody conjugates for cancer imaging and therapy

14:30 to 14:50 *Invited lecture*

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

The Beauty of Simplicity: The Smallest Porphyrin Derivatives for Photodynamic Therapy

14:50 to 15:10 *Invited lecture*

Marta Overchuk (*Joint Department of Biomedical Engineering, University of North Carolina at Chapel Hill and North Carolina State University, Chapel Hill, USA*), Marta Overchuk, Brittany Rickard, Justin Tulino, Frances Ligler, Imran Rizvi

Photochemical Lipid Peroxidation: Targeting Platinum Resistance in Ovarian Cancer Cells with Distinct Lipidomes

15:10 to 15:30 *Invited lecture*

Youngjae You (*Pharmaceutical Sciences, Buffalo, USA*), Kazi Md Mahabubur Rahman, Soniya Kumbham, Sukyung Woo, Barbara Foster

Singlet Oxygen-activatable Prodrugs for Improving Therapeutic Effects of PpIX-Photodynamic Therapy

15:30 to 16:00

Coffee Break

33. Antimicrobial PDT

Room 5 : Governor's

Amparo Faustino & Adelaide Almeida

16:00 to 16:20 *Invited lecture*

Adelaide Almeida (*Departament of Biology, Aveiro, Portugal*), Inês Mendonça, Daniela Silva, Maria Bartolomeu, Tiago Conde, Rosário Domingues

Insight into the efficiency of microalgae lipidic extracts as photosensitizers for aPDT against *Staphylococcus aureus*

16:20 to 16:40 *Invited lecture*

Cristina Kurachi (*São Carlos Institute of Physics, University of São Paulo, São Carlos, Brazil*)

Challenges for the photodynamic inactivation of bacterial biofilms

16:40 to 16:50

Nahyun Kwon (*Princess Margaret Cancer Centre, University Health Network, Toronto, Canada*), Alicia Voge, Juan Chen

Naphthalocyanine-Based Nanophotosensitizer: Approach to Antimicrobial Photodynamic Therapy for Pneumonia

16:50 to 17:00

Nicolas Desbois (*ICMUB, UMR CNRS 6302, Université de Bourgogne, Dijon, France*), Gaëlle Divoux, Thibaut Théry, Sébastien Dupont, Laurent Beney, Claude P. Gros, Marc Sautour

Ultra-high irradiation of corroles and porphyrins for short antimicrobial treatments

Tuesday June 25, 2024 - Morning

Lifetime Achievement Award Lecture

Room : Grand Ballroom



Chaired and laudation by: Ravindra Pandey

08:30 to 09:30 **Thomas Dougherty Award for Excellence in PDT Lecture**

Merrill Biel (*Department of Otolaryngology-Head and Neck Surgery, University of Minnesota, St Paul, USA*)

Clinical Photodynamic Therapy: The Evolution of Photodynamic Therapy Treatment of Head and Neck Cancer

09:30 to 10:00

Coffee Break

7. New development in BODIPY analogs

Room 1 : Ballroom A

Chaired by: Victor Nemykin & Christophe Ziegler

10:00 to 10:20 *Invited lecture*

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

New Developments in Chelating Isoindoline Chemistry

10:20 to 10:40 *Invited lecture*

Andrew Cammidge (*School of Chemistry University of East Anglia, Norwich, United Kingdom*), Budur Alanazi, Ahad Alsahli, David Hughes, Isabelle Chambrier, Jacob Gretton, Ala Alturk

Synthesis of new symmetrical and unsymmetrical Aza-DPM and Aza-BODIPY analogues

10:40 to 11:00 *Invited lecture*

Maria da Graca Vicente (*Louisiana State University, Baton Rouge, USA*), Sebastian Oloo, Guanyu Zhang, Andrea Savoldelli, Petia Bobadova-Parvanova, Frank Fronczek, Kevin Smith

Synthesis and chemistry of tetrafluorobenzo-fused BODIPY derivatives

11:00 to 11:20 *Invited lecture*

Genevieve Sauve (*Department of Chemistry, Case Western Reserve University, Cleveland, USA*)

Aza-dipyrromethene-based complexes as electron acceptors for organic solar cells

11:20 to 11:40 *Invited lecture*

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

Photoactivatable BODIPYs for Bioimaging Applications

11:40 to 12:00 *Invited lecture*

Andrew Benniston (*Chemistry, Newcastle upon Tyne, United Kingdom*)

BODIPY-based Light Harvesting Systems Built on the Proline Scaffold

12:00 to 12:10

Jiri Demuth (*Faculty of Pharmacy in Hradec Kralove, Charles University, Hradec Kralove, Czech Republic*),
Rahul Kaushik, Magdalena Kozlikova, Carola Rando, Miloslav Machacek, Veronika Novakova, Petr Zimcik,
Vladimír Šindelár;

Interaction of BODIPY with cucurbit[7]uril and its influence on PDT

12:10 to 12:20

Clément Michelin (*Institut de Chimie de Clermont-Ferrand / Clermont Auvergne INP, Aubière, France*),
Marion Leroux, Alexis Tran, Damien Boyer, Federico Cisnetti

Carboxylate BODIPY functional zinc-based metal-organic frameworks: towards solid state luminescence

13. Expanded Porphyrins/Aromaticity

Room 2 : Ballroom B

Chaired by: Jonathan Sessler, Dongho Kim & Hiroshi Shinokubo

10:00 to 10:20 *Invited lecture*

Hiroshi Shinokubo (*Nagoya University, Nagoya, Japan*)

Metallaantiaromaticity of 10-Platinacorrole Complexes

10:20 to 10:40 *Invited lecture*

Jung Su Park (*Dept. of Chemistry/Sookmyung Women's University, Seoul, Korea*)

Switching Aromaticity in Doubly N-fused Bicyclic Expanded Porphyrins

10:40 to 11:00 *Invited lecture*

Juwon Oh (*Department of Chemistry/Soonchunhyang University, Asan, Korea*)

Excited-state Antiaromaticity in Metalloporphyrins and its Effect on Metal-Ligand Charge Transfer

11:00 to 11:20 *Invited lecture*

Dage Sundholm (*Department of Chemistry, Faculty of Science, University of Helsinki, Helsinki, Finland*), Qian Wang

Magnetically Induced Current-Density Susceptibilities and Ring Currents in Porphyrinoids

11:20 to 11:40 *Invited lecture*

Hiroyuki Furuta (*Department of Applied Chemistry, Engineering, Kyushu University, Fukuoka, Japan*)
Electronic and Magnetic Interactions between N-Confused Porphyrin Dimers

11:40 to 12:00 *Invited lecture*

Stéphane Le Gac (*ISCR, University of Rennes, Rennes, France*), Thomas Nédellec, Bernard Boitrel
Parallel Chirality Inductions in Möbius Zn(II) Hexaphyrin Transformation Networks

12:00 to 12:10

Mickaël Ménand (*Sorbonne Université, Paris, France*), Syamasrit Dash, Rajaa Benchouaia, Arnaud Fihey, Ludovic Favereau, Corinne Lagrost, Sébastien Blanchard, Stéphane Le Gac
Oxidation of Möbius type Ni(II) and Pd(II) Hexaphyrin- Cyclodextrin complexes. The oak and the reeds fable.

12:10 to 12:20

Ewa Pacholska-Dudziak (*Department of Chemistry, University of Wroclaw, Wroclaw, Poland*)
Metallaporphyrins – a young family of organometallic porphyrins

TUESDAY

22. Solar cells and electronics

Room 3 : Porter / Devaux

Chaired by: Hiroshi Imahori & Fabrice Odobel

10:00 to 10:20 *Invited lecture*

Hiroko Yamada (*Institute for Chemical Research, Uji, Japan*), Kazuya Miyazaki, Kyohei Matsuo
Unsymmetrical 5,15-Disubstituted Tetrabenzoporphyrins: Effect of Molecular Symmetry on the Packing Structure and Charge Transporting Property

10:20 to 10:40 *Invited lecture*

Tomohiro Higashino (*Department of Molecular Engineering, Graduate School of Engineering, Kyoto University, Kyoto, Japan*), Qi Guo, Hiroshi Imahori
Donor-Appended Flat Corrole Dye Realizing a Long-Lived Charge-Separated State for Efficient Dye-Sensitized Solar Cells

10:40 to 11:00 *Invited lecture*

Pilar de la Cruz (*INAMOL, Universidad de Castilla-La Mancha, Toledo, Spain*), Ruben Caballero, Ganesh Sharma, Fernando Langa
Structural Versatility of Metalloporphyrins for Photovoltaic Applications

11:00 to 11:20 *Invited lecture*

Vasilis Nikolaou (*CEISAM CNRS UMR-6230, Nantes, France*), Fabrice Odobel, Antoni Llobet, Marc Robert, Eric Vauthey

Porphyrin-based systems for CO₂ conversion

11:20 to 11:40 *Invited lecture*

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

Catalytic reduction of CO₂ beyond 2 electrons with molecular complexes

35. Heme proteins and synthetic analogs

Room 4 : Red Jacket

Chaired by: John Dawson & Takashi Hayashi

10:00 to 10:20 *Invited lecture*

Michael T. Green (*UC-Irvine, Irvine, USA*)

The Importance of Thermodynamics, Tunneling, and Spin Density in Metal Oxo Mediated C-H Bond Cleavage

10:20 to 10:40 *Invited lecture*

Petra Hellwig (*University of Strasbourg / Chimie de la matière complexe UMR 7140, Strasbourg, France*), Raaif Siddeeqe, Ariadna Murillo Bello, Anna Filipa Seica Santos, Tatjana Gerasimova, Nicolas Javahiraly, Frédéric Melin, Thorsten Friedrich

Advances in the field of surface-enhanced vibrational spectroscopies and bioelectrochemistry for the study of the reaction of membrane proteins

10:40 to 11:00 *Invited lecture*

Koichiro Ishimori (*Department of Chemistry, Faculty of Science, Hokkaido University, Sapporo, Japan*)

Unique Heme Environments in Iron Regulatory Proteins to Regulate the Binding to Iron Responsive Element

11:00 to 11:20 *Invited lecture*

Anabella Ivancich (*National Centre for Scientific Research (CNRS), Research Unit UMR 7281, Marseille, France*), Elisa Mileo, Annalisa Pierro, Harry B. Gray

A Non-perturbing Spin Probe to Identify Catalytic Electron Transfer Pathways Via Redox-active Amino Acids: KatG, Tryptophans and The Isoniazid Prodrug Paradigm

11:20 to 11:40 *Invited lecture*

Kenneth Karlin (*Chemistry/Johns Hopkins University, Baltimore, USA*)

Heme-Copper O₂-Adducts and Thermodynamic Relationships between Superoxide, Peroxide and Hydroperoxide Hemes

11:40 to 12:00 *Invited lecture*

Shyamalava Mazumdar (*Department of Chemical Sciences, Tata Institute of Fundamental Research, Mumbai, India*), Kshatresh Dutta Dubey, Mohd Taher

Computationally guided Rational design of the heme active site in a bacterial Cytochrome P450

28. Dedicated to Dr. Kessel

Room 5 : Governor's

Chaired by: Ravi Pandey & Kevin Smith

10:00 to 10:20 Invited lecture

Kevin Smith (*Department of Chemistry, Louisiana State University, Baton Rouge, USA*)
Reflections on PDT Experiences Involving David Kessel

10:20 to 10:40 Invited lecture

Tayyaba Hasan (*Wellman Center for Photomedicine, MGH, Boston, USA*)
Cell Death Mechanisms in Photodynamic Therapy

10:40 to 11:00 Invited lecture

Brian C Wilson (*Princess Margeret Cancer Centre/University of Toronto, Toronto, Canada*), Layla Pires
PhotoDynamic Therapy and PhotoChemical Immune Stimulation in Melanoma

11:00 to 11:20 Invited lecture

Khurshid Guru (*Department of Urology, Roswell Park Comprehensive Cancer Center, Buffalo, USA*), Farukh Durrani, Ravindra Pandey
Clinical Importance of PET-ONCO (124I- analog of chlorophyll-a derivative) in Imaging Bladder Cancer with an Option of Photodynamic Therapy

11:20 to 11:40 Invited lecture

Theresa Busch (*University of Penn, Philadelphia, USA*), Theresa Busch
Modality Following Mechanism: Informing Best Practice in Combination Therapies that Incorporate PDT

TUESDAY

Tuesday June 25, 2024 - Afternoon

1. SubPcs, SubPzs, SubPors, and related contracted porphyrinoids

Room 1 : Ballroom A

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

13:30 to 13:50 Invited lecture

Timothy Bender (*Chemical Engineering and Applied Chemistry University of Toronto, Toronto, Canada*), Rachel Zigelstein, Nina Farac, Devon Holst

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

13:50 to 14:10 Invited lecture

Daigo Miyajima (*School of Science and Engineering, Shenzhen, China*)

Bulk Photovoltaic Effect in Polar Assemblies of Subphthalocyanines

14:10 to 14:30 Invited lecture

M. Salomé Rodríguez Morgade (*Departamento de Química Orgánica, Universidad Autónoma de Madrid, Madrid, Spain*), Elena Cañizares-Espada, Gema Perez de Bustos, Tomas Torres

Subporphyrazine-based photoswitches and extended-conjugated systems

14:30 to 14:50 Invited lecture

Rüdiger Faust (*Institute for Chemistry, University of Kassel, Kassel, Germany*), Gero Grunewald, Denise Täubert, Lorena Vogt

Energy Shuttling with SubPc-Arrays

14:50 to 15:10 Invited lecture

Gema de la Torre (*Universidad Autónoma de Madrid, Madrid, Spain*), Ainhoa Salazar, Sunit Kumar, Jorge Labella, Tomás Torres

Metallosupramolecular subphthalocyanine cages: molecular containers for reactions on guest fullerenes

15:10 to 15:30 Invited lecture

Pavel Stuzhin (*Ivanovo State University of Chemistry & Technology, Ivanovo, Russia*), Aleksey Chufarin, Aleksandra Dudina, Alina Fazlyeva, Mahmoud Hamdoush, Uliana Kovkova, Ivan A. Skvortsov, Maria Starkova, Mark Zaitsev

Halogenated subporphyrazines: Synthesis and some unusual transformations

15:30 to 16:00

Coffee Break

TUESDAY

16:00 to 16:20 *Invited lecture*

Gokulnath Sabapathi (*School of Chemistry, Indian Institute of Science Education and Research, Thiruvananthapuram, India*), Anjana Prasad Nambiar

Conformationally Locked and Protonation-induced Helical Chirality in Cyclo[2]dipyrins Linked with Anthracene Subunits

16:20 to 16:40 *Invited lecture*

Hiromitsu Maeda (*Department of Applied Chemistry, College of Life Sciences, Ritsumeikan University, Kusatsu, Japan*)

Charged Porphyrins That Form Electronically Functional Ion Pairs and Assemblies via π - π Interactions

16:40 to 17:00 *Invited lecture*

Ling Xu (*Hunan Normal University, Changsha, China*), Jianxin Song, Xiaoheng Ji, Zixuan Xie, Liling He, Jin Zhong
Facile Synthesis and Reactivity of Subporphyrin Borenium Cations

17:00 to 17:20 *Invited lecture*

Soji Shimizu (*Graduate School of Engineering/Kyushu University, Fukuoka, Japan*), Yuma Tanaka
Creation of NIR aza-aBODIPY Analogues Based on a Schiff Base Forming Reactions

9. Exotic porphyrins and novel pyrrolic macrocycles

Room 2 : Ballroom B

Chaired by: Chang-Hee Lee, Hong Wang & Pradeepta Panda

13:30 to 13:50 *Invited lecture*

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

13:50 to 14:10 *Invited lecture*

John Mack (*Institute for Nanotechnology Innovation, Rhodes University, Makhanda, South Africa*), Balaji Babu, Rodah Soy, Somila Dingiswayo, Kristen Burgess, Choonzo Chiyumba, Nthabeleng Molupe, Godfred Sebiawu, Mahlatse Ledwaba, Temlandvo Magwaza, Kaisano Tauyakhale, Tebello Nyokong

The photodynamic antimicrobial and anticancer activity properties of structurally analogous porphyrin, corrole, chlorin and N-confused porphyrin complexes

14:10 to 14:30 *Invited lecture*

Jonathan Hill (*National Institute for Materials Science, Tsukuba, Japan*)

Sensing and singlet oxygen generation using oxocyclohexadienylidene-substituted macrocycles

14:30 to 14:50 *Invited lecture*

Woo-Dong Jang (*Department of Chemistry/Yonsei University, Sedaemun-gu, Korea*), Sangyoon Oh, Kang Ho Chu
Coordination-based Supramolecular Assemblies Formed by Porphyrin Derivatives

14:50 to 15:10 *Invited lecture*

Jonathan Sessler (*Dept. of Chemistry, The University of Texas at Austin, Austin, USA*)

Proton Coupled Electron Transfer Aromaticity Switching

15:10 to 15:30 *Invited lecture*

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

Synthesis and properties of calix[3]pyrrole related macrocycles

15:30 to 16:00

Coffee Break

16:00 to 16:20 *Invited lecture*

Sergei Vinogradov (*Biochemistry and Biophysics/Chemistry, University of Pennsylvania, Philadelphia, USA*),
Srinivasa Rao Allu, Qi Sun, Mirna El Khatib, Thomas Troxler

Porphyrin-Based Phosphorescent Probes: New Approaches to Imaging pH and Temperature Simultaneously with Oxygen

16:20 to 16:30

Masaaki Suzuki (*Graduate School of Natural Sciences and Technology, Shimane University, Matsue, Japan*),
Eisuke Tsurumi, Yuto Taketa, Kyosuke Nakamura.

Synthesis of Spiro-Fluorene-Embedded Calix[4]pyrins by Utilizing Scrambled Dipyrromethanes

8. **Porphenes: A porphyrin analog of graphene** (*in honor of Josef Michl*)

Room 2 : Ballroom B

Organized by: Josef Michl

16:30 to 16:50

Igor Roncevic (*Institute of Organic Chemistry and Biochemistry of the CAS, Prague, Czech Republic*), Ivan Pavlak, Lujo Matasovic, Umberto Pelliccia, Eric A. Buchanan, Josef Michl

The electronic structure of metalloporphenes, two-dimensionally fused metalloporphyrins

16:50 to 17:10

Petr Neugebauer (*Central European Institute of Technology, Brno University of Technology, Brno, Czech Republic*), Oleksii Laguta, Vinicius Santana, Andriy Marko, Saghar Rezaie, Thomas Magnera, Jan Tarabek, Jorge Navarro, Igor Roncevic, Josef Michl

EPR Spectroscopy of Metalloporphenes

17:10 to 17:30

Paul Ionut Dron (*Institute of Organic Chemistry and Biochemistry of the CAS, Prague, Czech Republic*), Katarina Mayerová Varga, Lubomír Pospíšil, Josef Michl

Anodic Oxidation of a Zinc Porphyrin Layer on an Aqueous Surface

Presented in part in Above Three talks

Josef Michl (Department of Chemistry, University of Colorado, Boulder, USA), Thomas F. Magnera, Paul Dron, Jared P. Bozzone, Milena Jovanovic, Igor Roncovic, Edward Tortorici, Wei Bu, Elisa M. Miller, Charles T. Rogers

Metalloporphenes: Two-Dimensionally Fused Metalloporphyrins

CANCELED

Presented in part in Above Three talks

Thomas F. Magnera (Department of Chemistry, University of Colorado, Boulder, USA), Saghar Rezaei Kouhestani, Josef Michl

Two-Dimensional Oxidative Polymerization of Zn Porphyrin to Porphene: Mechanistic Insights

CANCELED

TUESDAY

19. Artificial photosynthetic systems (*in honour of Nikolai Tkachenko*)

Room 3 : Porter / Devaux

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

13:30 to 13:50 Invited lecture

Fernando Fernández-Lázaro (*Instituto de Bioingeniería, ELCHE, Spain*), Nathalie Zink-Lorre, Ana María Gutiérrez-Vilchez, Luis Martín-Gomis, Ángela Sastre-Santos, Paul A. Karr, C. Viyanga Ileperuma, Andrew Dawson, Francis D'Souza

Synthesis and Comparative Photophysical Study of (Perylenediimide-Azobenzene)₂Silicon Phthalocyanine Pentads

13:50 to 14:10 Invited lecture

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

New Porphyrin- and Phthalocyanine-based Dendrimers for Optics

14:10 to 14:30 Invited lecture

Kerry Hips (*Chemistry, Pullman, USA*), Ursula Mazur

Some insights into the role of solvents in porphyrin self-assembly

14:30 to 14:50 Invited lecture

Michael Therien (*Department of Chemistry, Duke University, Durham, USA*), Rui Liu, Zachary Widel, Jarrett Mansergh, Jiaqi Zhu, Aubrey Caplin, Nicholas Polizzi, Samuel Mann, Cassandra Pinnock, Peng Zhang, William DeGrado, David Beratan

Ultrafast Photoinduced Coherent Proton-Coupled Electron Transfer Reactions

14:50 to 15:10 Invited lecture

Dirk Guldi (*Department of Chemistry and Pharmacy, Erlangen, Germany*)

Step-Changing Solar Energy Conversion Schemes via Subphthalocyanines

15:10 to 15:30 *Invited lecture*

Francis D'Souza (*Department of Chemistry, Denton, USA*), Aida Yahagh, Ram Kaswan, Ajyal Alsaleh, Shahrzad Kazemi, Paul Karr

Far-Red and Near-IR Capturing BODIPYs for Modulating Light-Induced Charge Separation

15:30 to 16:00

Coffee Break

16:00 to 16:20 *Invited lecture*

Art Van der Est (*Department of Chemistry Brock University, St. Catharines, Canada*), Stefan Sharon, Niloofar Zarrabi, Jatan Sharma, Paul Karr, Francis D'Souza, Prashanth Poddutoori

Using Spin Polarization and Transient EPR to Study Charge Separation in Aluminum(III) Porphyrin Homodimer – Fullerene Supramolecular Assemblies

16:20 to 16:40 *Invited lecture*

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

Biomimetic Pyroles and Red-Wine Inspired Structures for Advancing Charge-Transfer Science

16:40 to 17:00 *Invited lecture*

Christof Wöll (*KIT Germany, Karlsruhe, Germany*)

Advanced Strategies For Assembling Chromophores Into Molecular Designer Solids Using The MOF Approach

17:00 to 17:20 *Invited lecture*

Shahzada Ahmad (*BCMaterials, Basque Center for Materials, Applications, and Nanostructures, UPV/EHU Science Park, Leioa, Spain*), Adrián Hernández, Naveen Harindu Hemasiri, Samrana Kazim, Javier Ortiz, Angela Sastre-Santos

Designing fluorinated phthalocyanines as hole selective layer for perovskite solar cell fabrication

17:20 to 17:30

Edwin Gonzalez Lopez (*School of molecular sciences, Tempe, USA*), Kai Cui, Daniel Heredia, Rodrigo Dominguez, Sharon Hammes-schiffer, Thomas Moore, Ana Moore, Edgar Reyes, Gary Moore, Brian Cherry

Porphyrin Oxidize Histidine 190 Mimic and Generate Proton Currents-Towards an Artificial Photosynthetic Reaction Center.

35. Heme proteins and synthetic analogs

Room 4 : Red Jacket

Chaired by: John Dawson & Takashi Hayashi

13:30 to 13:50 Invited lecture

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

Redox Properties of Biological Multiheme Assemblies

13:50 to 14:10 Invited lecture

Osami Shoji (*Graduate School of Science, Nagoya University, Nagoya, Japan*)

Revolutionizing Methane Transformation: Pioneering Catalytic Hydroxylation by Cytochrome P450BM3

14:10 to 14:30 Invited lecture

Giulietta Smulevich (*Chemistry, Sesto Fiorentino (FI), Italy*), Andrea Dali, Federico Sebastiani, Thomas Gabler, Maurizio Becucci, Stefan Hofbauer

Highlighting the enzymatic mechanism of coproporphyrin ferrochelatases of the Firmicute *Listeria monocytogenes*.

14:30 to 14:50 Invited lecture

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

Ligand Binding Cooperativity and Conformational Changes in Globin Coupled Sensor Signaling

14:50 to 15:10 Invited lecture

Angela Wilks (*Pharmaceutical Sciences/University of Maryland, Baltimore, Baltimore, USA*), Nicholas Montes, Riki Egoshi, Samuel Krug, Maureen Kane, Daniel Deredge

A heme-dependent conformational switch in the *P. aeruginosa* PhuS drives its function from transcriptional regulator to heme chaperone

15:10 to 15:30 Invited lecture

Sachiko Yanagisawa (*University of Hyogo, Hyogo, Japan*)

Resonance Raman study of Cytochrome c oxidase with a positive regulator, MNRR1

15:30 to 16:00

Coffee Break

16:00 to 16:20 Invited lecture

Hiroshi Fujii (*Nara Women's University, Nara, Japan*)

Electron-Transfer coupled Bond Formation Mechanism in the Sulfoxidation Reactions of Compound I

16:20 to 16:40 Invited lecture

David Goldberg (*Department of Chemistry, Johns Hopkins University, Baltimore, USA*), Jithin Thomas

PCET Reactivity in Compound I Analogs: Dramatic and Unexpected Axial Ligand Effect

16:40 to 17:00 *Invited lecture*

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

The mobilization of iron stored in bacterioferritin requires heme, which is indispensable for metabolic homeostasis in bacteria

17:00 to 17:10

Linda Leone (*Department of Chemical Sciences, University of Naples Federico II, Napoli, Italy*), Alessandra Esposito, Emilia Renzi, Giuliana Fusco, Alfonso De Simone, Flavia Nastri, Angela Lombardi

Catalytic Nanomaterials Based on a Porphyrin-Containing Artificial Mini-Enzyme

17:10 to 17:20

Jianfeng Li (*University of Chinese Academy of Sciences, Beijing, China*), Hongli Cao, Charles Schulz, Mark Shroyer, Wenjie Tang, Wanjie Ren

Recent advances in nitrosyl heme analogues

TUESDAY

31. Imaging and optical imaging

Room 5 : Governor's

Chaired by: Veronika Novakova & Anzhela Galstyan & Ulas Sunar

13:30 to 13:50 *Invited lecture*

Juan Chen (*Princess Margaret Cancer Centre, University Health Network, Toronto, Canada*), Gang Zheng
Biomimetic Porphyrin Nanoparticles

13:50 to 14:10 *Invited lecture*

Lauren Philp (*University of Toronto / University Health Network, Toronto, Canada*), Harley Chan, Marjan Rouzbahman, Marta Overchuk, Juan Chen, Gang Zheng, Marcus Bernardini

Use of Porphysomes for the accurate intra-operative detection of primary tumour, lymph node metastases and intra-abdominal metastases in a model of endometrial cancer: A tool for image-guided resection

14:10 to 14:30 *Invited lecture*

Sara Pinto (*Chemistry Department - University of Coimbra, Coimbra, Portugal*), Daniela Teixeira, Angela Teixeira, Carlos Geraldès, Eva Toth, Mariette Pereira

The Potential of Tetrapyrrolic Macrocycles as a Platform for Medical Imaging – From Mn(II/III) Redox Contrast Agents for MRI to Radiolabeled Contrast Agents for PET

14:30 to 14:50 *Invited lecture*

Yanfeng Feng (*Wellman Center for Photomedicine, Department of Dermatology, Massachusetts General Hospital and Harvard Medical School, Boston, MA, USA, boston, USA*), Yanfang Feng, Shazia Bano, Shoaib Ashraf, Shakir Khan, Pushpamali De Silva, Tayyaba Hasan

Early prediction of sepsis based on fluorescent biomarkers of bacterial metabolism

14:50 to 15:10 *Invited lecture*

Tymish Y. Ohulchanskyy (*College of Physics and Optoelectronic Engineering, Shenzhen, China*)

Near and short wave infrared microscopy and multimodal imaging to track biodistribution of photosensitizer nanocarriers, induce and visualize photodynamic action

15:10 to 15:30 *Invited lecture*

Yingjuan Zheng (*First Affiliated Hospital, Zhengzhou University, Zhengzhou, China*), Boya Zha, Linkuan Huangfu

Report on the results of an initial clinical trial of sonodynamic therapy for refractory brain gliomas

15:30 to 16:00

Coffee Break

34. Development of advanced photosensitizers

Room 5 : Governor's

Chaired by: Pui-Chi Lo & Luis Arnaut

16:00 to 16:20 *Invited lecture*

Petr Zimcik (*Faculty of Pharmacy in Hradec Kralove, Charles University, Hradec Kralove, Czech Republic*), Stefan Bednarik, Jiri Demuth, Veronika Novakova

J-dimers of Phthalocyanines

16:20 to 16:30

Abdul Azeez (*Department of Chemistry and Biochemistry, S. Orange, USA*), Usha Kalra, Jonathan Pinnock, Marius Pelmus, Sanskruti Brahmhatt, Sergiu Gorun, Alexander Fadeev

Adsorption of Substituted Zinc Phthalocyanines on Gold: The Role of Molecular Structure, Symmetry and Dimensions on the Interfacial Interactions

16:30 to 16:40

Chuan Qin (*Department of Neurology, Tongji Hospital, Tongji Medical college, Huazhong University of Science and Technology, Wuhan, China*), Wanning Li, Yuxin Liu, Daishi Tian

Components of Bovis Calculus and neurological disorders: Evidence from the Mendelian Randomization study

16:40 to 16:50

Soniya Kumbham (*Pharmaceutical sciences, Buffalo, USA*), Kazi Md Mahabubur Rahman, Caroline Bosmajian, Ganesh Bist, Sewon Kim, Barbara A Foster, Sukyung Woo, Youngjae You
Enhancing PDT Efficacy in Non-muscle Invasive Bladder Cancer

16:50 to 17:00

Fapu Chen (*Wuhan Dapeng Pharmaceutical Co., Ltd., Wuhan, China*), Yage Chen, Zhanglong Luo, Feng Pan, Xiliang Zhao, Jun Zhou, Moris Eisen, Rui Chen, Zhi Li
New Total Synthesis of Biliverdin IX α and Bilirubin IX α

17:00 to 17:10

Prabhanjan Giram (*The State university of New York at Buffalo, Department of Pharmaceutical Sciences, Buffalo, USA*), Ganesh Bist, Sewon Kim, Youngjae You
Photo-activatable Prodrugs of Paclitaxel for In-situ Photo Vaccination

17:10 to 17:20

Fakai Chen (*Wuhan Dapeng Pharmaceutical Co., Ltd., Wuhan, China*), Ganru Zhou, Zhanglong Luo, Zeyu Shi, Jun Zhou, Rui Chen
The derivatives of bilirubin are a great potential medical drug

17:20 to 17:30

Miloslav Macháček (*Charles University, Faculty of Pharmacy, Department of Biochemical Sciences, Hradec Králové, Czech Republic*), Magdaléna Kozlíková, Jan Kollár, Lukáš Lochman, Jaroslav Pejchal, Veronika Nováková, Petr Zimčík
Water soluble phthalocyanines in combination with short drug-to-light interval: An effective tumour eradication.

Wednesday June 26, 2024 - Morning

Lifetime Achievement Award Lecture

Room : Grand Ballroom



UNIVERSITA' DEGLI STUDI
DI ROMA TOR VERGATA

Chaired and laudation by: John Dawson

08:30 to 09:30 **Eraldo Antonini Award Lecture**

Ann English (Chemistry and Biochemistry, Concordia University, Montreal, Canada)

Synergistic O₂ and NO Binding to Hemoglobin Matches O₂ Delivery with Metabolic Demand

Tribute to Jim Kincaid

Room : Grand Ballroom

09:30 to 09:50

Anabella Ivancich

09:50 to 10:20

Coffee Break

SPP/JPP Young Investigator Award Lectures

Room : Grand Ballroom



Society of
Porphyrins &
Phthalocyanines



World Scientific

Chaired and laudation by: Tomas Torres

10:20 to 10:50 **SPP/JPP Young Investigator Award Lecture**

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

Elucidating Electron Spin Relaxation Mechanisms in Metalloporphyrins and Phthalocyanines for Quantum Information Science

Chaired and laudation by: Michael Therien

10:50 to 11:20 **SPP/JPP Young Investigator Award Lecture**

Benoit Lessard (Chemical Engineering - University of Ottawa, Ottawa, Canada)

Phthalocyanines as next-generation semiconductors: from high-performance transistors to cannabinoid sensors

Thursday June 27, 2024 - Morning

Lifetime Achievement Award Lecture

Room : Grand Ballroom

Sessler Family Charitable Trust

Chaired and laudation by: Michael Therien

08:30 to 09:30 **Robert Burns Woodward Career Award in Porphyrin Chemistry Lecture**

Hiroshi Imahori (*Department of Molecular Engineering, Kyoto University, Kyoto, Japan*)

Porphyrins as a Key Component for Photoinduced Charge Separation, Solar Cells, and Optogenetics

09:30 to 10:00

Coffee Break

4. N-fused and N-confused porphyrinoids

Room 1 : Ballroom A

Chaired by: Hiroyuki Furuta & Muniappan Sankar

10:00 to 10:20 *Invited lecture*

Muniappan Sankar (*Indian Institute of Technology Roorkee, Roorkee, India*), Rajesh Kumar

Synthesis of N-Confused Porphyrin Metal Complexes and Their Applications in Catalysis and PDT

10:20 to 10:40 *Invited lecture*

Tomoya Ishizuka (*Department of Chemistry, University of Tsukuba, Tsukuba, Japan*), Shogo Tanaka, Lianyu Wei, Takahiko Kojima

Selective Atropisomerization of a Porphyrin Derivative and Its Supramolecular Applications

10:40 to 11:00 *Invited lecture*

Timothy Lash (*Department of Chemistry, Illinois State University, Normal, USA*), Kimberly Le, Jared Salrin

Thirty Years of Carbaporphyrin Chemistry: Recent Advances

THURSDAY

3. Advances in phthalocyanine chemistry and related porphyrinoids (in honour of Roeland J. M. Nolte)

Room 1 : Ballroom A

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

11:00 to 11:20 Invited lecture

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

Chiral emissive thin films with phthalocyanines

11:20 to 11:40 Invited lecture

Giovanni Bottari (*Universidad Autónoma de Madrid, Madrid, Spain*), Óscar Fernández Vera, Yusen Luo, Luca Sagresti, Giuseppe Brancato, Dirk M. Guldi, Tomás Torres

Exploring the Chemical Space of Tetracyano-substituted Porphyrinoids: Synthesis, Photophysical Properties, Racemization Features, and Chemical Transformation

11:40 to 12:00 Invited lecture

Ángela Sastre Santos (*Instituto de Bioingeniería, Elche, Spain*), Lydia Ferrer, Adrián Hernández, Ariadna Gil-Martínez, Desiré Molina, Jorge Follana-Berná, Félix Manjón, Javier Ortiz

Phthalocyanines Dimers as Hole Transporting Agents and as Potent G-quadruplex DNA Binders

12:00 to 12:20 Invited lecture

Tomas Torres (*Autonoma University of Madrid, Madrid, Spain*), Jorge Labella, Giulia Lavarda, Elisa López-Serrano, Marta Gómez-Gómez, Juan Laforga-Martín, Adriana Agramunt, Daniel Holgado

Subphthalocyanine-Based Molecular Materials: From Singlet Fission and Molecular Photovoltaics to Chirality and Supramolecular Organization.

THURSDAY

40. Theory and spectroscopy

Room 2 : Ballroom B

Chaired by: Martin Stillman & Nagao Kobayashi

10:00 to 10:20 Invited lecture

Nagao Kobayashi (*Faculty of Textile Science and Technology, Shinshu University, Ueda, Japan*),
Taniyuki Furuyama

Synthesis and Characterization of Octaphenyltetraaza-porphyrin Si(IV), Ge(IV), Sn(IV), and P(V) Complexes

10:20 to 10:40 Invited lecture

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

Structure and properties of novel macrocyclic structures: A first-principles perspective

10:40 to 11:00 Invited lecture

Atsuya Muranaka (*RIKEN CSRS, Wako, Japan*), Xingmei Ouyang, Yuji Tokunaga, Takumi Ehara, Kiyoshi Miyata
Excited State Intramolecular Proton Transfer and Excited State Aromaticity in Hemiporphyrazine

11:00 to 11:20 Invited lecture

Hirofumi Ueda (*Graduate School of Pharmaceutical Sciences, Tohoku University, Sendai, Japan*),
Soichiro Sato, Kenta Noda, Kosuke Okada, Ken-ichi Ojima, Nagao Kobayashi, Hidetoshi Tokuyama
Development of Oxidative Dimerization of Alkaloids Using Iron Phthalocyanine Catalyst

11:20 to 11:40 Invited lecture

Carl Wamser (*Department of Chemistry, Portland State University, Portland, USA*), Abhik Ghosh,
Jeanet Conradie, Chenyi Wang, Michael Walter, Nicholas Day
Hyperporphyrins: Charge-transfer Interactions with meso-Aryl Substituents

11:40 to 12:00 Invited lecture

Jeanet Conradie (*University of the Free State, Bloemfontein, South Africa*), Abhik Ghosh
Wave distortion in Au(II) porphyrins

17. Sensors

Room 3 : Porter / Devaux

Chaired by: Marcel Bouvet & Corrado Di Natale

10:00 to 10:20 Invited lecture

Marcel Bouvet (*Université de Bourgogne, Dijon, France*), Sujithkumar Ganesh Moorthy, Jacob Arvidson, Rita Meunier-Prest, Hong Wang

π -Extended Porphyrin-Phthalocyanine Heterojunction Devices Exhibiting High Ammonia Sensitivity with a Remarkable Light Effect

10:20 to 10:40 Invited lecture

Corrado Di Natale (*Department of Electronic Engineering University of Rome Tor Vergata, Roma, Italy*), Rosamaria Capuano, Roberto Paolesse

Porphyrinoids based sensors for Volatilomics Applications

10:40 to 11:00 Invited lecture

Philani Mashazi (*Rhodes University, Makhanda, South Africa*)

Graphene-phthalocyanine composite thin films as electrochemical sensors for neurotransmitters and screening of interferents

11:00 to 11:20 Invited lecture

Gabriele Magna (*University of Rome Tor Vergata, Rome, Italy*), Manuela Stefanelli, Marko Sakarasvili, Victor Borovkov, Riina Aav, Donato Monti, Corrado Di Natale, Roberto Paolesse

More than Oranges and Lemons: Recent Advances in Enantioselective Electronic Noses

11:20 to 11:40 Invited lecture

Tadahiro Komeda (*IMRAM, Tohoku university, Sendai, Japan*), Md Iftekharul Alam, Tsuyoshi Takaoka, Hiroki Waizumi, Muhammad Shamim Al Mamun

Phthalocyanine Sensing with MoS₂ Field Effect Transistor with Light Injection Toward Chemical Recognition

11:40 to 12:00

Fabrizio Caroleo (*Department of Chemical Sciences and Technologies, University of Rome Tor Vergata, Rome, Italy*), Francesco Pizzoli, Gabriele Magna, Valerio Allegra, Sara Nardis, Corrado Di Natale, Roberto Paolesse

Novel optical sensor for PFOA detection in water using different low-cost materials for corrole deposition

24. Redox chemistry and electrochemistry of porphyrinoids and oligopyrroles

Room 4 : Red Jacket

Chaired by: Charles Devillers & Gabriel Canard

10:00 to 10:20 Invited lecture

Charles H. Devillers (*Institut de Chimie Moléculaire de l'Université de Bourgogne, Dijon, France*), Nesrine Amiri, Fatima Akhssas, Asmae Bousfiha, Mathieu Berthelot, Abdou Dimé, Dominique Lucas, Hélène Cattey, Julien Roger, Paul Fleurat-Lessard

Oxidative C-N fusion of pyri(mi)dinyl-based porphyrins

10:20 to 10:40 Invited lecture

Gabriel Canard (*CINaM, Aix-Marseille University, Marseille, France*), Paul-Gabriel Julliard, Simon Pascal, Olivier Siri, Diego Cortés-Arriagada, Luis Sanhueza

Meso-Perfluoro-alkyl Corroles as precursors of functionalized corroles

10:40 to 11:00 Invited lecture

Philipp Gotico (*LMB/SB2SM/I2BC/Joliot/CEA Saclay, Gif sur Yvette, France*), Asma Khadhraoui, Chanjuan Zhang, Regis Guillot, Marie Sircoglou, Winfried Leibl, Bernard Boitrel, Zakaria Halime, Ally Aukauloo

Replicating Functional Features of CO Dehydrogenase: Advancing Catalyst Design for Enhanced CO₂ Electrocatalysis

11:00 to 11:20 Invited lecture

Nicolas Boscher (*Luxembourg Institute of Science and Technology, Esch-sur-Alzette, Luxembourg*), Drialys Cardenas-Morcoso, Deepak Bansal, Hadi Ghahramanzadehasl

Engineering Porphyrin Conjugated Polymer Thin Films for Heterogeneous Electrocatalysis

11:20 to 11:40 Invited lecture

Jose H Zagal (*Department of Chemistry of Materials, University of Santiago de Chile, Santiago, Chile*), Ingrid Ponce, Ricardo Venegas, Laura Scarpetta-Pizo, Luis Acuña, Karina Muñoz-Becerra

Reactivity Descriptors and Guidelines based on Ligand Parametrization for Electroreduction of O₂ Catalyzed by Metallophthalocyanines and Metalloporphyrins

11:40 to 11:50

Ji-Young Shin (*Graduate School of Engineering/Nagoya University, Nagoya, Japan*), Jinkwang Hwang

Secondary dual-ion batteries with porphyrinoid electrodes

11:50 to 12:00

Ryan Osterloh (*Kyoto University, Kyoto, Japan*), Nicolas Desbois, Abhik Ghosh, Claude Gros, Karl Kadish

Flipping the Script on Hyperporphyrins: Spectroscopic and Electrochemical Evidence for Inverse Hypercorroles

29. Porphyrinoid-based materials for biomedicine and the environment

Room 5 : Governor's

Chaired by: *Francesca Giuntini & Antonino Mazzaglia*

10:00 to 10:20 *Invited lecture*

Francesca Giuntini (*Liverpool John Moores University, Liverpool, United Kingdom*), Miryam Chiara Malacarne, Marzia Bruna Gariboldi, Manuela Marras, Paolo Dognini, Alan Simm, Enrico Caruso

Synthesis and Biological Evaluation of Porphyrin-Peptide Conjugates Targeting Triple Negative Breast Cancer Cells

10:20 to 10:40 *Invited lecture*

Lluïsa Pérez-García (*Farmacologia, Toxicologia i Química Terapèutica, Barcelona, Spain*), Saman Bagherpour, Gordon Bruce, Snow Stolnik, Marta Duch, Maribel Arjona, Jose Antonio Plaza, Consuelo González-Manchón, Patricia Vázquez, Mariano Redondo-Horcajo

Silicon Oxide-Based Microchips Functionalized with Fluorescent Probes and Photosensitizers for Intracellular Sensing and Photodynamic Therapy Applications

10:40 to 11:00 *Invited lecture*

Reza Ghiladi (*North Carolina State University, Raleigh, USA*), Chenyu Jiang

Photodynamic Materials as an Antimicrobial Strategy for Infection Prevention

11:00 to 11:20 *Invited lecture*

Vincent Sol (*University of Limoges , LABCiS UR22722, Limoges, France*), Abdechakour El Kihel, Charlotte Vernisse, Tan-Sothéa OUK

Xylans-based cross-linked hydrogel for antimicrobial photodynamic therapy.

11:20 to 11:40 *Invited lecture*

M. Amparo F. Faustino (*Department of Chemistry /University of Aveiro, Aveiro, Portugal*), Cátia Vieira, Maria Bartolomeu, Ana Teresa Peixoto Gomes, Nuno M. M. Moura, Carlos J. P. Monteiro, Adelaide Almeida

Porphyrins for antimicrobial environmental applications

11:40 to 12:00 *Invited lecture*

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

Fabrication and characterization of photoactive (nano)materials for water disinfection

THURSDAY

Thursday June 27, 2024 - Afternoon

3. Advances in phthalocyanine chemistry and related porphyrinoids (in honour of Roeland J. M. Nolte) Room 1 : Ballroom A

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

13:30 to 13:50 Invited lecture

Jorge Labella (*Universidad Autónoma de Madrid, Madrid, Spain*), Marta Gómez-Gómez, Daniel Holgado, Jorge Lobo-Checa, Tomas Torres
Shape Matters: On-surface Chemistry of Subphthalocyanines

13:50 to 14:10 Invited lecture

Ayse Gul Gurek (*Gebze Technical University, Kocaeli, Turkey*), Gizem Gumusgoz Celik, Basak Aru, Gulderen Yanikkaya Demirel, Emel Onal, Ozge Tuncel, Serdar Ozelik, Devrim Atilla
Synthesizing and Evaluating The Photodynamic Efficacy of Phthalocyanine-based Photosensitizers

14:10 to 14:30 Invited lecture

Sílvia Escayola (*Institut de Química Computacional i Catàlisi, Girona, Spain*), Jorge Labella, Dariusz Szczepanik, Albert Poater, Tomas Torres, Eduard Matito, Miquel Solà
Exploring Aromaticity and UV-Vis Absorption Correlations in Phthalocyanines and Subphthalocyanines

14:30 to 14:50 Invited lecture

Giulia Lavarda (*Eindhoven University of Technology, Eindhoven, Netherlands*)
Organic Materials for Energy Conversion: Molecular Approaches Based on Subphthalocyanines and Beyond

14:50 to 15:10 Invited lecture

José García Calvo (*Department of Organic Chemistry, Facultad de Ciencias, Universidad Autónoma de Madrid, Madrid, Spain*), Habiba Boughanmi Boughanmi, Xiao-Xiao Chen, Naomi Sakai, Stefan Matile, Tomás Torres
Subphthalocyanine Derivatives for Cell Staining

15:10 to 15:30 Invited lecture

Umit Isci (*Marmara University, Istanbul, Turkey*)
Phthalocyanines as oxidation and reduction catalysts

15:30 to 16:00

Coffee Break

THURSDAY

16:00 to 16:20

Gloria Zanotti (*Institute of Structure of Matter - CNR, Monterotondo Stazione, Italy*), Federica Palmeri, Venanzio Raglione

Blue phthalocyanines and green chemistry: a sustainable combination?

16:20 to 16:40 *Invited lecture*

Maria Medel (*Polymer Therapeutics Lab/ Centro Investigación Príncipe Felipe, Valencia, Spain*), Esther Martinez, Amina Benaicha, Snezana Dordevic, Inmaculada Conejos-Sanchez, María J. Vicent

The Design of Polypeptide-Based Nanoconjugates as Advanced Theranostics

16:40 to 16:50

Evgueni E. Nesterov (*Department of Chemistry and Biochemistry, Northern Illinois University, DeKalb, USA*), Irina V. Nesterova, Gerard T. Ducharme, Harouna Amadou

Resin-Supported Synthesis of Phthalocyanines for Fluorescent Imaging and Materials Applications

16:50 to 17:00

Jong S. Park (*School of Chemical Engineering, Pusan National University, Busan, Korea*)

Visible-to-NIR Absorbing Phthalocyanine Derivatives for Optical, Electrochemical, and Photothermal Applications

41. Optical spectroscopy

Room 2 : Ballroom B

Chaired by: Mikalai Kruk, Sergei Vinogradov, John Mack & Zhen Shen

13:30 to 13:50 *Invited lecture*

Dongho Kim (*Department of Chemistry/ Yonsei University, Seoul, Korea*)

Spectroscopic diagnosis of excited-state aromaticity: Capturing electronic structures and conformations upon aromaticity reversal

13:50 to 14:10 *Invited lecture*

Aleksander Rebane (*Department of Physics, Bozeman, USA*), Charles Stark, Aleksander Trummal, Merle Uudsemaa, Meelis-Mait Sildoja, Katrin Petritsenko, Juri Pahapill

Parity-Forbidden Excited States in Zinc Tetraphenylporphyrin and Zinc Octaethylporphyrin Revisited by Fluorescence- and Nonlinear Absorption-Based Two-Photon Spectroscopy

14:10 to 14:30 *Invited lecture*

Viktor Nemykin (*Department of Chemistry, University of Tennessee - Knoxville, Knoxville, USA*)

Charge-transfer spectroscopy of transition-metal phthalocyanines: correlation with Lever's EL scale and TDDFT calculations

14:30 to 14:50 Invited lecture

Oleg Zadvornyy (*Montana State University, Bozeman, USA*), Mikhail Drobizhev, William E Broderick, Joan Broderick

Interaction of Zn-protoporphyrin IX with RSAD1 protein

14:50 to 15:10 Invited lecture

Andrew Musser (*Department of Chemistry and Chemical Biology, Cornell University, Ithaca, USA*), Gloria Davidova, Suman Gunasekaran, Thomas Khazanov, Woojae Kim, Kelly Leiby, Rana Lomlu, Soham Mukherjee

Developing model platforms for polariton photochemistry

15:10 to 15:30 Invited lecture

Jun-Long Zhang (*College of Chemistry and Molecular Engineering, Peking University, Beijing, China*), Ruijing Zhang, Hongxue Xu, Yuhang Yao, Jonathan Sessler, Jing Zhang

Design of Nickel(II) Phototheranostics

15:30 to 16:00

Coffee Break

16:00 to 16:30 Invited lecture

Hong Wang (*Chemistry/University of North Texas, Denton, USA*), Saad Shaikh, Courtney Cooper, Ajyal Alsaleh, Ram Kaswan, Francis D'Souza

Fusion of Pi-Extended Porphyrins with Antiaromatic Components

16:30 to 16:50 Invited lecture

Chang Hee Lee (*Kangwon National University, chun cheon, Korea*)

Planar, π -Extended Anti-aromatic Hexapyrin(1,0,1,0,1,0); Synthesis and Properties

16:50 to 17:10 Invited lecture

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

Chiroptical and Magneto-Optical Properties of Porphyrin Aggregates

17:10 to 17:30 Invited lecture

Pitchou Ngoy (*University of Kinshasa, Kinshasa, Zaire*)

Laser Flash Photolysis study of selected Metal free, Zn and Ga 5,10,15,20- tetrakis(4-phenyl derivatives) porphyrins

17:30 to 17:50 Invited lecture

Jonathan Britton (*Rhodes University Chemistry, Makhanda/Grahamstown, South Africa*), Azole Sindelo, Pinar Sen, Bridged Magaela, Refilwe Matshitse, Balaji Babu, Muthumuni Managa, Lindokuhle Nene, Khanyisile Buthelezi, Aviwe Magadla, Earl Prinsloo, Tebello Nyokong

Morpholine modified porphyrinoids for anticancer and antimicrobial treatment.

20. Porphyrin framework materials

Room 3 : Porter / Devaux

Chaired by: Shengqian Ma

13:30 to 13:50 Invited lecture

Takashi Uemura (*The University of Tokyo, Tokyo, Japan*)
Metal-Organic Frameworks for Advanced Polymers

13:50 to 14:10 Invited lecture

Hong-Cai Zhou (*Chemistry, College Station, USA*), Zongsu Han
Zr-Porphyrin Metal-Organic Frameworks

14:10 to 14:30 Invited lecture

Wenbin Lin (*Department of Chemistry, Chicago, USA*), Taokun Luo, Geoffrey Nash, Jing Li, Dong Won Kang
Porphyrin and Phthalocyanine Framework Materials for Cancer Therapy

14:30 to 14:50 Invited lecture

Wonyoung Choe (*Department of Chemistry / Ulsan National Institute of Science and Technology (UNIST), Ulsan, Korea*), Junghye Lee, Jiyeon Kim, Hyeonsoo Cho
Toward Digital Discovery of Zr Porphyrinic Metal-Organic Frameworks

14:50 to 15:10 Invited lecture

Pravas Deria (*Southern Illinois University, Carbondale, Carbondale, USA*), Sreehari Surendran Rajasree
Triplet dynamics in porphyrin-based metal-organic frameworks

15:10 to 15:30 Invited lecture

Thomas Bein (*Department of Chemistry, University of Munich (LMU), Munich, Germany*)
Optoelectronic Processes in Two-Dimensional Covalent Organic Frameworks

15:30 to 16:00

Coffee Break

16:00 to 16:20 Invited lecture

Zhenjie Zhang (*Nankai University, Tianjin, China*), Yushu Zhang, Yao Chen
Design and application of porphyrinic covalent organic frameworks

16:20 to 16:40 Invited lecture

Shengqian Ma (*Department of Chemistry/University of North Texas, Denton, USA*)
Bio-inspired Design of Porous Porphyrinic Framework for Heterogeneous Catalysis

16:20 to 16:40 Invited lecture

Mei Pan (*Sun Yat-sen University, Guangzhou, China*)
Photoluminescence metal-organic materials with multi-path photon conversion and energy transfer

16:40 to 16:50

Puttiah Bhyrappa (*Department of chemistry, Indian Institute of Technology Madras, Chennai, India*)

Unusual porphyrin ring conformational distortions in the substituted porphyrin-fullerene cocrystallates

16:50 to 17:00

Deepak Bansal (*Material Research and Technology, Esch-sur-Alzette, Luxembourg*), Drialys Cardenas-Morcoso, Nicolas Boscher

Engineering Fused Ni(II) Porphyrin Polymer Films for Electrocatalytic Oxygen Evolution Reaction

36. Catalysis in natural and biosynthetic heme proteins

Room 4 : Red Jacket

Chaired by: Anabella Ivancich & Giulietta Smulevich

13:30 to 13:50 *Invited lecture*

Angela Lombardi (*Department of Chemical Sciences/University of Naples Federico II, Naples, Italy*), Linda Leone, Maria De Fenza, Marco Chino, Alessandra Esposito, Serena Damian, Edelberto O. Niola, Ornella Maglio, Flavia Nastri

Altering the Reactivity of Mimochrome Mini-Enzymes

13:50 to 14:10 *Invited lecture*

Yi Lu (*Chemistry/University of Texas at Austin, Austin, USA*), Yiwei Liu, Hirbod Heidari, Aaron Ledray, Casey Van Stappen

Biosynthetic modeling of heme-copper oxidases

14:10 to 14:30 *Invited lecture*

John Groves (*Department of Chemistry, Princeton University, Princeton, NJ, USA*), Wenxuan Li, Dali Davis, Kevin Speina, Christin Monroe, Angelina Moncrieffe, Yuan Cao, Chih-Chung Chen

Selective biocatalysis with fungal heme-thiolate peroxxygenases

14:30 to 14:50 *Invited lecture*

Stephen Bell (*The University of Adelaide, Adelaide, Australia*), Matthew Podgorski, Joel Lee, Jinia Akter, Alecia Gee, Tuhin Das

Engineering Peroxygenase Activity into Cytochrome P450 Monooxygenases through Modification of the Oxygen Binding Region

14:50 to 15:10 *Invited lecture*

Inés García-Rubio (*Instituto de Nanociencia y Materiales de Aragón (INMA) CSIC-Universidad de Zaragoza, Zaragoza, Spain*)

Probing Hemeprotein Active Sites with Hyperfine Spectroscopy

15:10 to 15:30 *Invited lecture*

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

Trapping of reaction intermediates of nitric oxide reductase by cryo-photolysis of caged substrate

15:30 to 16:00

Coffee Break

16:00 to 16:20 *Invited lecture*

Pierre Moenne-Loccoz (*Chemical Physiology and Biochemistry, Oregon Health & Science University, Portland, USA*), Therese Albert, Jonathan Caranto, Arun Kumar

Vibrational Analyses of Nitric Oxide Scavenging Reactions Using a Photolabile NO Donor at Cryogenic Temperatures

16:20 to 16:40 *Invited lecture*

Piotr Mak (*Chemistry/Saint Louis University, St. Louis, USA*)

Experimental Evidence for Oxidizing Intermediates in the Enzymatic Cycle of Noncanonical Heme Oxygenases

16:40 to 17:00 *Invited lecture*

Kent Rodgers (*Chemistry & Biochemistry / North Dakota State University, Fargo, USA*), Olivia Stiller, Gudrun Lukat-Rodgers

Heme Self Association and Stability of Heme:Protein Complexes

17:00 to 17:20 *Invited lecture*

Aimin Liu (*University of Texas at San Antonio, San Antonio, USA*), Jiasong Li, Ran Duan, Ephrahime Traore, Ian Davis, Douglas Goodwin, Andrzej Jarzecki

Protein-Derived Cofactor: It Takes Two To Tango

17:20 to 17:30

Yong Zhang (*Department of Chemistry and Chemical Biology, HOBOKEN, USA*), Rahul Khade, Yang Wei

Origin of Reactivity Differences of Porphyrin Catalyst Components and Substrates in Carbene Transfer Reactions

THURSDAY

26. Medical applications of tetrapyrrole-based compounds

Room 5 : Governor's



Chaired by: Jonathan Lovell & Gang Zheng

13:30 to 13:50 *Invited lecture*

Andre Palmer (*The Ohio State University, Columbus, USA*)

Engineering a Novel Dual-Functioning Protein Complex for Treatment of Hemolysis

13:50 to 14:10 *Invited lecture*

Ulas Sunar (*Stony Brook University, Stony Brook, USA*)

Monitoring light-triggering of chemo-phototherapy drug release in vivo by quantitative fluorescence imaging

14:10 to 14:30 *Invited lecture*

Pinunta Nittayacharn (*Radiology, Case Western Reserve University, Cleveland, USA*), Agata Exner

Nanobubbles in Cancer Therapy: Targeted Drug Delivery and Sonodynamic Advancements

14:30 to 14:50 Invited lecture

Wei Chiao Huang (*Biomedical Engineering, Buffalo, USA*), Luwen Zhou, Minami Baba, Mayumi Tachibana, Motomi Toriic Toriic, Eizo Takashima, Carole Long, Takafumi Tsuboi, Kazutoyo Miura, Yimin Wu, Tomoko Ishin, Jonathan Lovell

Cobalt-Porphyrin-Phospholipid: Advancing Dual Antigen Co-Delivery via Liposomes for Malaria Vaccination

14:50 to 15:10 Invited lecture

Jonathan Lovell (*SUNY Buffalo, Buffalo, USA*)

Translational efforts with Cobalt-porphyrin-phospholipid as a vaccine excipient

15:10 to 15:30 Invited lecture

Ali Makky (*Paris-Saclay university, Orsay, France*), Jana Alhoussein, Isokjon Pozilov, Abdechakour Elkihel, Paul Cressey, Khatia Merabishvili, Louis-Gabriel Bronstein, Christophe Regeard

Novel generation of Porphysomes with improved photodynamic properties against bacteria and cancer cells

15:30 to 16:00

Coffee Break

16:00 to 16:20 Invited lecture

Huang Chiao Huang (*Bioengineering, College Park, USA*)

Fluorescence-guided photoimmunotherapy for peritoneal carcinomatosis

16:20 to 16:40 Invited lecture

Pui-Chi Gigi Lo (*Biomedical Sciences / City University of Hong Kong, Hong Kong, China*), Lin He, Feijie Xu, Leo K. B. Tam, Junlong Xiong, Evelyn Y. Xue, Dennis K. P. Ng

Enhancing the Tumor Specificity and Modulating the Oxygen Content for Advanced Photodynamic Therapy

16:40 to 17:00 Invited lecture

Anne-Laure Bulin (*Institute for Advanced Biosciences, Inserm, University Grenoble Alpes, Grenoble, France*)

Radioluminescence: an elegant yet complex strategy to combine deep-tissue photodynamic therapy and radiotherapy

Friday June 28, 2024 - Morning

Lifetime Achievement Award Lecture

Room : Grand Ballroom



Chaired and laudation by: Nagao Kobayashi

08:30 to 09:30 Linstead Career Award in Phthalocyanine Chemistry Lecture

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

Who would have thought that 4-aza-nitrogens could cause such electronic chaos in a tetrapyrrole?

09:30 to 10:00

Coffee Break

5. Porphycenes

Room 1 : Ballroom A

Chaired by: Jacek Waluk & Arkadiusz Listkowski

10:00 to 10:20 Invited lecture

Jacek Waluk (*Institute of Physical Chemistry, Polish Academy of Sciences, Warsaw, Poland*), Anastasiia Svidzerska, Idaresit Mbakara, Katsiaryna Duk, Michal Kijak, Agnieszka Gajewska, Arkadiusz Listkowski

Complicated Photophysics of (some) Porphycenes

10:20 to 10:40 Invited lecture

Takashi Hayashi (*Department of Applied Chemistry, Osaka University, Suita, Japan*), Koji Oohora

Catalytic properties of metalloporphycenes in myoglobin matrix

10:40 to 11:00 Invited lecture

Alberto Bossi (*Istituto di Scienze e Tecnologie Chimiche, Milan, Italy*), Marta Penconi, Jacek Waluk, Arkadiusz Listkowski, Agnieszka Gajewska, Marcello Campione, Gianlorenzo Bussetti

Porphycenes networks, chemosensing properties of 2D and 3D thin films

11:00 to 11:20 Invited lecture

Pradeepta Panda (*University of Hyderabad, Hyderabad, India*), Anup Rana, Nagamaiah Jodukathula, Sameeta Sahoo, Narmada Katari, Arnab Dutta

Design and Synthesis of New Functionalized Porphycenes & their Novel Complexation Chemistry

11:20 to 11:40 Invited lecture

Toshikazu Ono (*Dept. of Applied Chemistry, Graduate School of Engineering, Kyushu University, Fukuoka, Japan*)
Unsymmetric Porphycene Synthesis: A Pathway to Novel Photofunctional Properties

11:40 to 12:00 Invited lecture

Arkadiusz Listkowski (*Faculty of Mathematics and Natural Sciences of the University of Cardinal Stefan Wyszyński, Warsaw, Poland*), Anastasiia Svidzerska, Katsiaryna Duk, Michal Kijak, Jacek Waluk
Porphycenes as Useful Models for Studying Intramolecular Hydrogen Transfer

15. Chirality in porphyrin chemistry

Room 2 : Ballroom B

Chaired by: *Alessandro D'Urso, Manuela Stefanelli & Victor Borovkov*

10:00 to 10:20 Invited lecture

Eugen Stulz (*University of Southampton, Southampton, United Kingdom*), Vasilis Nikolaou, James Wood, Georgios Charalambidis, Athanassios Coutsolelos, Jonathan Burns
DNA templated multi-porphyrin systems

10:20 to 10:40 Invited lecture

Liliya Yatsunyk (*Chemistry and Biochemistry, Swarthmore, USA*), Dana Beseiso, Erin Chen, Paul Seth, Eric Xing, Sawyer McCarthy, David Farrell, Shawn Pfeil
Interactions of N-methyl mesoporphyrin IX with G-quadruplex DNA

10:40 to 11:00 Invited lecture

Alessandro D'Urso (*Chemical Science / University of Catania, Catania, Italy*), Gabriele Travagliente, Alfredo Ferro, Roberto Purrello
Interactions between achiral porphyrins and miRNA

11:00 to 11:20 Invited lecture

Maria Angela Castriciano (*University of Messina, Messina, Italy*), Roberto Zagami, Andrea Romeo, Luigi Monsù Scolaro
Kinetic Investigations on the Chiral Induction in TPPS4 J-Aggregates

11:20 to 11:40 Invited lecture

Manuela Stefanelli (*Department of Chemical Science and Technologies, University of Rome Tor Vergata, Roma, Italy*), Donato Monti, Gabriele Magna, Roberto Paolesse
Prolinated Porphyrins in Chiral Systems Development

11:40 to 12:00 Invited lecture

Victor Borovkov (*Tallinn University of Technology, Tallinn, Estonia*)
Supramolecular chirogenesis in porphyrin chemistry: Experimental, practical, and theoretical aspects

18. Self-assembled systems and materials

Room 3 : Porter / Devaux

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

10:00 to 10:20 Invited lecture

Xavi Ribas (*Institut de Química Computacional i Catàlisi (IQCC), Universitat de Girona, Girona, Spain*)

Porphyrin-Based Supramolecular Nanocapsules as Masks for Regioselective Functionalization of Fullerenes

10:20 to 10:40 Invited lecture

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

Strapped porphyrins: from bio-inorganic models to self-assembly and back

10:40 to 11:00 Invited lecture

Kentaro Tanaka (*Department of Chemistry, Nagoya University, Nagoya, Japan*)

Nanoporous Liquid Crystals for Guest Molecule Arrays

11:00 to 11:20 Invited lecture

Luigi Monsù Scolaro (*Dipartimento di Scienze Chimiche, Biologiche, Farmaceutiche ed Ambientali, Università di Messina, Messina, Italy*), Roberto Zagami, Andrea Romeo, Maria Angela Castriciano

Mechanistic and Structural Aspects on the Supramolecular Assembling Process of TPPS4 J-Aggregates

11:20 to 11:40 Invited lecture

David Gonzalez Rodriguez (*Universidad Autónoma de Madrid, Madrid, Spain*), Alberto de Juan, Fernando Garcia-Guijarro, A. Priscila Gia, Beatriz Torres-Calvo

Host-Guest Chemistry within Porphyrin Nanocages

11:40 to 12:00 Invited lecture

Wei Zhang (*Department of Chemistry, University of Colorado Boulder, Boulder, USA*)

Aromatic Carbon-rich Molecular and Polymeric Architectures Constructed via Dynamic Covalent Chemistry

FRIDAY

38. Natural porphyrinoid pigments

Room 4 : Red Jacket

Chaired by: Bernhard Kräutler & Franz-Peter Montforts

10:00 to 10:20 Invited lecture

Jonathan Lindsey (*Chemistry, Raleigh, USA*), Duy Chung, Khiem Chau Nguyen
Synthesis of Native Bacteriochlorophylls and Analogues

10:20 to 10:40 Invited lecture

Hitoshi Tamiaki (*Graduate School of Life Sciences/Ritsumeikan University, Kusatsu, Japan*), Saki Kichishima, Yamato Hashimoto
Chirality in Chlorophylls and Their Derivatives

10:40 to 11:00 Invited lecture

Gunhild Layer (*Institute of Pharmaceutical Sciences / University of Freiburg, Freiburg, Germany*), Heike Meyer, Pia Hebecker
Introduction of the Keto Groups during Heme d1 Biosynthesis

11:00 to 11:20 Invited lecture

Franz-Peter Montforts (*Institute of Organic and Analytical Chemistry, University of Bremen, Bremen, Germany*), Ulrich M. Schwartz, Claudia Margrit Müller, Frank Romanowski, Dirk Kusch, Nghiem Hai Vu
Selective Synthesis of Bonellin and Other Naturally Occurring Hydroporphyrins

11:20 to 11:40 Invited lecture

Cornelia Karg (*Department of Pharmacognosy, University of Innsbruck, Innsbruck, Austria*), Angelika Vollmar, Stefan Zahler
Identification of Cellular Targets of Tetrapyrrolic Pigments derived from Chlorophyll and Heme

11:40 to 12:00 Invited lecture

Felix Zelder (*University of Zurich, Zurich, Switzerland*), Samira Amini
Ni-Corrin Derivatives For Biomimetic Cofactor F430 Chemistry

FRIDAY

26. Medical applications of tetrapyrrole-based compounds



Room 5 : Governor's

Chaired by: Zeev Gross & Anu Puri

10:00 to 10:20 Invited lecture

Lali Medina-Kauwe (*Cedars-Sinai Medical Center, Los Angeles, USA*), Simoun Mikhael, Nelyda Gonzalez, Ryan Cho, Christina Gloady, Teddy Berger, Nhan Nguyen, Jae Youn Hwang, Ravinder Abrol, Harry Gray, Zeev Gross
Tumor-homing nanobioparticles (NBPs) delivering theranostic corroles to resistant and metastatic cancers

10:20 to 10:40 Invited lecture

Ravindra Pandey (*PDT Center, Roswell Park Comprehensive Cancer Center, Buffalo, USA*), Kevin Siters, Farukh Durrani, Mykhaylo Dukh, Joseph Capaccio, Steven Turowski, Joseph Sperryak
Photoacoustic Imaging and Photodynamic Therapy Efficacy of Polyacrylamide and Gold Nanoparticles Containing Near Infrared Photosensitizers

10:40 to 11:00 Invited lecture

Anu Puri (*Center for Cancer Training, NCH/NIH, Rockville, USA*)
Tunable Lipid-based Nanomedicine for On-Demand Cancer Drug Delivery & NIH Funding Mechanisms Across the Career Path

11:00 to 11:20 Invited lecture

Dalip Kumar (*BITS Pilani, Pilani, India*)
Chlorophyll-a Derived Photosensitizers for Improved Photodynamic Therapy

11:20 to 11:40 Invited lecture

Hisataka Kobayashi (*Molecular Imaging Branch/ National Cancer Institute, Laurel, USA*)
Near Infrared Photoimmunotherapy of Cancer

FRIDAY

Friday June 28, 2024 - Afternoon

6. Functional porphyrins

Room : Grand Ballroom

Chaired by: Claude Gros & Mathias Senge

13:30 to 13:50 Invited lecture

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

Porphyrins – Effective Photocatalysts for Red Light-Induced Functionalizations of Molecules

13:50 to 14:10 Invited lecture

Doris Kunz (*Institut für Anorganische Chemie, University of Tübingen, Tübingen, Germany*), Theo Maulbetsch, Viola Munzert, Malin Moya Llasat

Carbenaporphyrin complexes: the stronger electron donor character and its consequences

14:10 to 14:30 Invited lecture

Sébastien Richeter (*Institut Charles Gerhardt Montpellier - University of Montpellier, Montpellier, France*), Ludivine Poyac, Clémence Rose, Sébastien Clément

Porphyrin Cages Assembled from Carbene-Metal Bonds

14:30 to 14:50 Invited lecture

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

Porphyrin Derived Conversion of Enamines into α -Ketoamides

14:50 to 15:10 Invited lecture

Bartosz Szyszko (*Faculty of Chemistry / University of Wroclaw, Wroclaw, Poland*), Maksym Matviyishyn, Aleksandra Sarwa, Rafal Grzelczak

Iminopyrrole-based self-assembly: towards mechanically interlocked pseudoporphyrinoids

15:10 to 15:30 Invited lecture

Christian Brückner (*University of Connecticut, Storrs, USA*), Nivedita Chaudhri, Dinusha Damunupola, Nisansala Hewage, Ruoshi Li, Matthew J. Guberman-Pfeffer, Matthias Zeller

Pushing the Limits of Oxidation-based Pyrrole-modifications of Porphyrins

15:30 to 16:00

Coffee Break

FRIDAY

16:00 to 16:20 *Invited lecture*

Valérie Heitz (*Institut de Chimie de Strasbourg, Strasbourg, France*), Sonia Adrouche, Ryan Djemili, Stéphanie Durot, Amy Edo-Osagie, Henri-Pierre Jacquot de Rouville

Porphyrins Associated with Stimuli-Responsive Units to Control the Properties of Receptors

16:20 to 16:40 *Invited lecture*

Mathias Senge (*School of Chemistry, Trinity College Dublin, Dublin, Ireland*)

From Shape to Function – Conformational Engineering of Porphyrins

Closing Ceremony

17:00 to 17:30

Fond Farewell by **Karl Kadish**, *President SPP & ICPP Organizer*

Ravindra Pandey, *ICPP-13 Host & Co-Chair* & **Francis D'Souza**, *ICPP-13 Co-Chair*

18. Self-assembled systems and materials

Room 3 : Porter / Devaux

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

13:30 to 13:50 *Invited lecture*

Juan R. Granja (*Universidade de Santiago de Compostela, Santiago de Compostela, Spain*), Victoria López-Corbalán, Marcos Vilela-Picos, Ezequiel Troncoso, Manuel Amorín

Self-assembled cyclic peptides as receptors for molecular and ion recognition

13:50 to 14:10 *Invited lecture*

H. Christopher Fry (*Argonne National Laboratory, Lemont, USA*)

α -Helix Rich Heme Binding Peptide Assemblies

14:10 to 14:30 *Invited lecture*

Matthias Lehmann (*Institute of Organic Chemistry, University of Würzburg, Würzburg, Germany*), Lisa Reber, Maximilian Baumann

Click Procedure with Porphyrin-, Phthalocyanine- and Subphthalocyanine Star Mesogens – New Donor-Acceptor Columnar Liquid Crystals

14:30 to 14:50 *Invited lecture*

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

Optical Materials from Fluorescent Dyes and Macrocycles by Hierarchical Design

14:50 to 15:10 *Invited lecture*

Miguel García Iglesias (*Department of Chemistry and Process & Resources (QuIPRe), Santander, Spain*), Nicolás M. Casellas, Victor Rodríguez, Martijn Kemerink, Tomás Torres

Self-assembled Multifunctional Ferroelectric Materials

15:10 to 15:30 *Invited lecture*

Mark Lipke (*Chemistry and Chemical Biology, Rutgers University (New Brunswick), Piscataway, USA*),
Kaitlyn Dutton, P. Thomas Blackburn, Rupak Saha, Taro Jones

Interplay of Redox Properties, Host-Guest Chemistry, and Reactivity in Metalloporphyrin Nanocages

15:30 to 16:00

Coffee Break

16:00 to 16:20 *Invited lecture*

Athanassios Coutsolelos (*Chemistry Department, Heraklion, Greece*), Georgios Charalambidis,
Kalliopi Ladomenou, Vasilis Nikolaou, Emmanouil Nikoloudakis

The pigments of life: a continuous source of inspiration for medical applications

16:20 to 16:30

Anna Lewandowska-Andralojc (*Faculty of Chemistry, Department of Physical Chemistry and Photochemistry, Poznan, Poland*), Karol Hauza, Ewelina Gacka, Daria Larowska-Zarych

Modulating Porphyrin Spectroscopic Properties through Integration with 2D Materials or Ferromagnets

16:30 to 16:40

Luis Martin-Gomis (*Universidad Miguel Hernandez, Elche, Spain*), Victor Sobrino-Bastan, Christoff Wöll,
Angela Sastre-Santos

Silicon phthalocyanines in Surface-Anchored Metal-Organic Frameworks Materials

37. Chemistry and biology of corrinoids and related compounds

Room 4 : Red Jacket

Chaired by: Felix Zelda & Dorota Gryko

13:30 to 13:50 *Invited lecture*

David Lawrence (*Chemistry/University of North Carolina at Chapel Hill, Chapel Hill, USA*),
Brianna Vickerman, Basanta Acharya

B12-Mediated, Light-Triggered Drug Release from Cell-Conveyed Phototherapeutics

13:50 to 14:10 *Invited lecture*

Robert Doyle (*Syracuse University, Syracuse, USA*)

Peptide corrination in drug-development

14:10 to 14:30 *Invited lecture*

Koji Oohora (*Department of Applied Chemistry, Osaka University, Suita, Japan*), Yoshiyuki Kagawa,
Takashi Hayashi

Redox tuning of reconstituted myoglobin with an artificial cofactor toward a highly reactive metal
carbenoid species

14:30 to 14:50 Invited lecture

Christopher Ohmer (*Department of Biological Chemistry, Ann Arbor, USA*), Stephen Ragsdale, David Villareal, Macon Abernathie, Ritimukta Sarangi, Junko Yano, Vittal Yachandra, Jan Kern, Darya Marchany-Rivera, Aina Cohen

How Anaerobic Microbes Use a Nickel-Tetrapyrrole To Make and Break Methane: Mechanism of Methyl-Coenzyme M Reductase

14:50 to 15:10 Invited lecture

Bernhard Kraeutler (*Institute of Organic Chemistry, University of Innsbruck, Innsbruck, Austria*)
Vitamin B12 - the Magic of Cobalt and Rhodium

15:30 to 16:00

Coffee Break

26. Medical applications of tetrapyrrole-based compounds

Room 5 : Governor's



Chaired by: Fabienne Dumoulin

13:30 to 13:50 Invited lecture

David Amabilino (*Institut de Ciència de Materials de Barcelona, Consejo Superior de Investigaciones Científicas (ICMAB-CSIC), Cerdanyola del Vallès, Spain*)
Moving porphyrins and phthalocyanines

13:50 to 14:10 Invited lecture

Martina Vermathen (*Department of Chemistry, Biochemistry and Pharmaceutical Sciences, University of Bern, Bern, Switzerland*)
Development of Topical Formulations for Porphyrinic Photosensitizers

14:10 to 14:30 Invited lecture

Antonino Mazzaglia (*CNR-ISMN, Messina, Italy*), Nina Burduja, Mariachiara Trapani, Giuseppe Nocito, Antonia Nostro
Cyclodextrin/Photosensitizer Supramolecular Constructs: A Short Journey From Nanoassemblies to Hydrogels with Photoantimicrobial Response

14:30 to 14:50 Invited lecture

Magali Gary-Bobo (*IBMM, Montpellier, France*)
Therapeutic potential of photoactivable nanoparticles

14:50 to 15:10 Invited lecture

Girgis Obaid (*Bioengineering/University of Texas at Dallas, Richardson, USA*)
Self-delivering photoactivable nanoconstructs target and block the PD-L1 immune checkpoint in pancreatic cancer

15:10 to 15:30 Invited lecture

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

Nano-encapsulating phthalocyanines into polymeric materials

15:30 to 16:00

Coffee Break

16:00 to 16:20 Invited lecture

Iti Gupta (*Chemistry, Gandhinagar, India*), Vijayalakshmi Pandey, Jaydeepsinh Chavda

Functionalized Porphyrins for applications in PDT and SDT

Poster Presentations

Room : Event Center

Session 1: Tuesday 25 June 17:30 - 19:30

Session 2: Thursday 27 June 18:00 - 20:00

Symposia of Poster Session 1 - Tuesday, June 25, 2024

Synthesis

1. SubPcs, SubPzs, SubPors, and related contracted porphyrinoids
2. Corroles
3. Advances in phthalocyanine chemistry and related porphyrinoids
4. N-fused and N-confused porphyrinoids
5. Porphycenes
6. Functional porphyrins
7. New development in BODIPY analogs

Characterization

8. Porphenes: A porphyrin analog of graphene
9. Exotic porphyrins and novel pyrrolic macrocycles
10. NIR-responsive porphyrinoids
11. Advances in chemistry and applications of porphyrazines
12. Main group coordination chemistry
13. Expanded porphyrins/aromaticity
15. Chirality in porphyrin chemistry

Symposia of Poster Session 2 - Thursday, June 27, 2024

Materials

16. Porphyrinoids at interfaces
17. Sensors
18. Self-assembled systems and materials
19. Artificial photosynthetic systems
20. Porphyrin framework materials

Energy

21. Catalysis
22. Solar cells and electronics
24. Redox chemistry and electrochemistry of porphyrinoids and oligopyrroles

Biomedical

25. Porphyrin derivatives for medical and biological applications
26. Medical applications of tetrapyrrole-based compounds
29. Porphyrinoid-based materials for biomedicine and the environment
30. Anticancer PDT
33. Antimicrobial PDT
34. Development of advanced photosensitizers

Biochemistry

35. Heme proteins and synthetic analogs
37. Chemistry and biology of corrinoids and related compounds
38. Natural porphyrinoid pigments
39. Heme enzymes: Structure and function

Theory

40. Theory and spectroscopy

1. SubPcs, SubPzs, SubPors, and related contracted porphyrinoids

S01-P-001

Gero Grunewald (*University of Kassel, Kassel, Germany*), Rüdiger Faust
SubPcs as photoactive compounds for photoswitchable molecular wires

S01-P-002

Riku Kitahara (*Graduate School of Engineering/Kyushu University, Fukuoka, Japan*), Soji Shimizu
Creation of Supramolecular Assemblies Using TTF-Annulated Subphthalocyanine

S01-P-003

Denise Taucubert (*University of Kassel/Institute for Chemistry and CINSaT, Kassel, Germany*), Maximilian Herm, Peter Schol, Dirk Guldi, Rüdiger Faust
Subphthalocyanines as Donors in Multichromophore Energy-Transfer-Systems

S01-P-004

Alicia Voge (*Department of Medical Biophysics, University of Toronto, Toronto, Canada*), Nahyun Kwon, Rachel Zigelstein, Juan Chen, Timothy P. Bender, Gang Zheng
Fluorine Substituted Subphthalocyanines for Photodynamic Therapy

S01-P-005

Lorena Vogt (*University of Kassel, Kassel, Germany*), Rüdiger Faust
SubPc-Pyridone-Dyads for Storage and Delayed Release of Singlet Oxygen

S01-P-006

Keita Watanabe (*Department of Applied Chemistry, Graduate School of Engineering, Hokkaido University, Sapporo, Hokkaido, Japan*), Narendra Nath Pati, Yasuhide Inokuma
Direct Macrocyclization Synthesis and Metal Complexation of Thiazole Containing Calix[3]pyrrole analogues

2. Corroles

S02-P-001

Nicolas Desbois (*ICMUB, UMR CNRS 6302, Université de Bourgogne, Dijon, France*), W. Ryan Osterloh, Stéphane Brandès, Michel Meyer, François Estour, Rachid Baati, Claude P. Gros
New corrole-based molecularly imprinted polymers for the degradation of chemical warfare agents

S02-P-002

Ashmita Jain (*Chemistry/IIT Gandhinagar, Gandhinagar, India*), Iti Gupta
Visible Light Mediated Photocatalysis by Corroles: Green Approach for Organic Transformations

S02-P-003

Francesco Pizzoli (*Department of Chemical Science and Technologies University of Rome Tor Vergata, Roma, Italy*), Roberto Paolesse, Sara Nardis, Alessia Fata
N-alkyl Corrole metal complexes as Catalysts.

S02-P-004

Azad Saini (*Department of Chemistry, Technion-Israel Institute of Technology, Haifa, Israel*), Zeev Gross
A Novel Approach Towards Nitrile-Substituted Corrole: Versatile Precursor for Click Chemistry and Beyond

S02-P-005

Irena Saltsman (*Technion-Israel Institute of Technology, Haifa, Israel*), Marcelo Fernandez-Dela-Mora, Zeev Gross
Cobalt Complexes of the Substituent-free Corrole with a Variety of Axial Ligands

3. Advances in phthalocyanine chemistry and related porphyrinoids (in honor of Roeland J. M. Nolte)

S03-P-001

Jibin Alex Abraham (*Department of Pharmaceutical Chemistry and Pharmaceutical Analysis, Faculty of Pharmacy in Hradec Kralove, Charles University, Hradec Kralove, Czech Republic*), Petr Zimcik
Synthetic Approach to Unsymmetrical ABAC-type Phthalocyanines via [3+1] Intermolecular Cyclization

S03-P-002

Chiranjeevulu Kashi (*department of chemistry, Pullman, USA*), Ursula Mazur, Hipps K.W
Synthesis and Photophysical Properties of Annulated Mono and Dinuclear Phthalocyanines Abstract: Metal-free mononuclear, dinuclear, and phenoxy phthalocyanines were prepared through a mixed cycle

S03-P-003

Federica Palmeri (*Department of Chemistry, Sapienza University of Rome, Rome, Italy*), Venanzio Raglione, Gloria Zanotti
New alternative reaction media for the sustainable synthesis of metallophthalocyanines in solution

S03-P-004

Marius Pelmus (*Seton Hall University, South Orange, USA*), Sanskruti Brahmhatt, Sergiu Gorun
Separation, spectroscopy, and applications of perfluoroalkyl phthalocyanines with different degrees of substitution

S03-P-005

Youna Son (*Advanced Organic Materials and Engineering, Daejeon, Korea*), Ramalingam Manivannan, Palanisamy Jayasudha
Green Dye Molecules Using Phthalocyanine: Molecular Design, Synthesis and Measurement in Ink and High-Visibility Applications

4. N-fused and N-confused porphyrinoids

S04-P-002

Timothy Lash (*Dept. of Chemistry, Illinois State University, Normal, USA*), Victoria Ujah, Jane Hostert, Trang Nguyen
Porphyrin Analogues with Fused Heteroaromatic Rings: Synthesis and Aromatic Character of Phenanthroline, Quinoline and Isoquinoline-fused Porphyrinoids

S04-P-001

Timothy Lash (*Department of Chemistry, Illinois State University, Normal, USA*), Amy Le
Towards Novel Porphyrinoid Architectures: Synthesis of Porphyrin Analogues with Two Exocyclic Rings

S04-P-003

Kinga Szydelko (*Dept. of Chemistry, University of Wroclaw, Poland*), Sebastian Koniarz, Piotr Jan Chmielewski
Zwitterion Interacting Systems Based on Imidazo[1,5]carbazole

S04-P-004

Sruti Mondal (*Technion-IIT, Haifa, Israel*), Zeev Gross
Nickel corrole catalyst for hydrogen evolution reaction: Reactivity and spectroscopy

5. Porphycenes

S05-P-001

Agnieszka Gajewska (*Institute of Physical Chemistry Polish Academy of Sciences, Warsaw, Poland*), Idaresit Mbakara, Aleksander Gorski, Jacek Waluk
Search for photostable porphycenes.

6. Functional porphyrins

S06-P-001

Jishnu Chevayil Vasudevan (*Department of Chemistry, University of North Texas, Denton, USA*), Hong Wang
Design and Synthesis of Conjugated Polymers Based on π -Extended Porphyrin.

S06-P-002

Andrew Dawson (*The University of North Texas, Denton, USA*), Bijesh Sekaran, Youngwoo Jang, Kusum Mohan Singh, Rajneesh Misra, Francis D'Souza
Charge-Transfer in Panchromatic Porphyrin-Tetracyanobuta-1,3-Diene-Donor Conjugates: Switching the Role of Porphyrin in the Charge Separation Process

S06-P-003

Victor Emaikwu (*Dept. of Chemistry, University of Connecticut, Storrs, USA*), Dinusha Damunupola, Nisansala Hewage, Matthias Zeller, Christian Brückner
Non-biological ring openings of porphyrins

S06-P-004

Ram Ratan Kaswan (*Chemistry/University of North Texas, Denton, USA*), Spenser Washburn, Hong Wang, Francis D'Souza

Excited-State Charge Transfer in Push-Pull Zinc(II) π Extended Porphyrins Fused with Tetracyanopentacene

S06-P-005

Evans Kirui (*Dept. of Chemistry, University of Connecticut, Storrs, USA*), Lalith Samankumara, Matthias Zeller, Christian Brückner

Rational pathway for the synthesis of morpholinobacteriolactone and related bis-modified chromophores

S06-P-006

Uka Oji (*Department of Chemistry, University of North Texas, Denton, USA*)

Design of a Coupled Polymerization and Depolymerization Cycles System Based on Nucleophilic Aromatic Ring-Opening Polymerization/Fused-Porphyrin project.

S06-P-007

Reena (*Indian Institute of Technology Roorkee, Roorkee, India*), Muniappan Sankar

Synthesis, Structural, Spectral and Electrochemical Redox Properties of β -Acetamidoporphyrins

S06-P-008

Saad Shaikh (*Chemistry Department, University of North Texas, Denton, USA*)

Cyclooctatetraene attached π conjugated porphyrins and optoelectronic studies on their conformational planarization state.

S06-P-009

Prabha Sharma (*Department of Chemistry, University of North Texas, Denton, USA*), Hong Wang

Synthesis, Characterization and Aromatic Effect of Dihydrobenzopyrroloindole-Fused Porphyrin Based on Beta Functionalization

S06-P-010

Qi Sun (*Chemistry Department/University of Pennsylvania, Philadelphia, USA*), Thomas Troxler, Sergei Vinogradov, Mirna El Khatib

Phosphorescent Membrane-Anchored Probes for Oxygen

S06-P-011

Jennifer Wytko (*Institut de Chimie de Strasbourg, CNRS, Strasbourg, France*), Mathilde Berthe, Yoshi Kagawa, Axel Riquet, Takashi Hayashi, Jean Weiss

Taking advantage of a remote template effect to synthesize bipyridine-strapped porphyrins

7. New development in BODIPY analogs

S07-P-001

Simran Dhingra (*Louisiana State University, BATON ROUGE, USA*), Prajesh Shrestha, Arpan Chowdhury, Zehua Zhou, Seetharama D. Jois, Maria da Graça H. Vicente

Synthesis and investigation of near-IR BODIPY-monoTKI and BODIPY-diTKI conjugates

S07-P-002

Shuhei Fukami (*Graduate School of Engineering/Kyushu University, Fukuoka, Japan*), Soji Shimizu

Synthesis of Cyclic Pyrrolopyrrole aza-BODIPY and its Circularly Polarized Luminescence

S07-P-003

Edward Gilbreth (*Chemistry, University of Tennessee, Knoxville, USA*), Victor Nemykin

Pyridine functionalized aza-BODIPYs for use in light-harvesting applications

S07-P-004

Caroline Gwaro (*Chemistry Department, Louisiana State University, Baton Rouge, USA*), Caroline Ndung'u, Maria da Graça H. Vicente

Synthesis of Near-IR Meso(8)-Pyridyl-BODIPYs and Their Investigation as Photosensitizers for PDT

S07-P-005

Chamari Viyanga Ieperuma (*Department of Chemistry, University of North Texas at Denton, Denton, USA*), José Garcés-Garcés, Shui Shao, Fernando Fernández-Lázaro, Ângela Sastre-Santos, Paul Karr, Francis D'Souza

Panchromatic Light-Capturing Bis-styryl BODIPY-Perylenediimide Donor-acceptor Constructs: Occurrence of Sequential Energy Transfer Followed by Electron Transfer

S07-P-006

Marion Leroux (*Institut de Chimie de Clermont-Ferrand, Aubière, France*), Muriel Bonnet, Philippe Veisseire, Stéphanie Bornes, Pierre Chalard, Clément Michelin

Original fluorescent probes for use in microscopy on a model organism: *Caenorhabditis elegans*

S07-P-007

Clément Michelin (*Institut de Chimie de Clermont-Ferrand / Clermont Auvergne INP, Aubière, France*), Marion Leroux, Alexis Tran, Damien Boyer, Federico Cisnetti

Carboxylate BODIPY functional zinc-based metal-organic frameworks: towards solid state luminescence

S07-P-008

Mistura Olajuwon (*Chemistry Department/Louisiana State University, Baton Rouge, USA*), Simran Dhingra, Seetharama Jois, Frank Fronczek, Maria da Graça Vicente

Synthesis and evaluation of aza-BODIPY conjugates

S07-P-009

Sebastian Oloo (*Chemistry Department, Louisiana State University, Baton Rouge, USA*), Guanyu Zhang, Petia Bobadova-Parvanova, Seleen Al Horani, Masa Al Horani, Frank Fronczek, Kevin Smith M, Maria da Graça Vicente

Synthesis and Physicochemical Properties of Tetrafluorobenzo- $[\alpha]$ -fused BOPYPY Dyes

S07-P-010

Morris Oyelowo (*Department of Chemistry/University of Tennessee, Knoxville, USA*), Jacob Schaffner, David Blank, Christopher Ziegler, Viktor Nemykin
Photochemical Magnetic Switch of Homoleptic Metal(II) Complexes of azadipyrromethene and their Corresponding aza-BODIPY

S07-P-011

Anika Petersen (*University Kassel, Kassel, Germany*), Rüdiger Faust
BOIMPYs as new photosensitizers in singlet oxygen storage and release systems

S07-P-012

Dijo Prasannan (*Chemistry, Knoxville, USA*), Victor N Nemykin
Synthesis of 2-Pyridone[α]-Fused BOPHYs via Cyclocondensation Reaction

S07-P-013

Victoria Villarreal (*Department of Chemistry/ University of Tennessee-Knoxville, Knoxville, USA*), Tanner Blesener
Axially Coordinated Supramolecular Assemblies Formed between Zinc Porphyrins or Phthalocyanines and 2-pyridone-BODIPYs as Non-Fullerene Acceptors.

S07-P-014

Aida Yahagh (*University of North Texas, Denton, USA*), Ram. R Kaswan, Shahrzad Kazemi, Paul A. Karr, Francis D'Souza
Symmetry Breaking Charge Transfer Leading to Charge Separation in a Far-Red Absorbing Bisstyryl-BODIPY Dimer

8. Porphenes: A porphyrin analog of graphene (*in honor of Josef Michl*)

S08-P-001

Petr Neugebauer (*Central European Institute of Technology, Brno University of Technology, Brno, Czech Republic*), Oleksii Laguta, Vinicius Santana, Antonin Sojka, Matúš Šedivý, Jana Midlikova-Dubninska, Artur Solodovnyk, Andriy Marko
Modular Setup for Broadband Magnetic Resonance Studies at THz-frequencies

S08-P-002

Saghar Rezaie (*Department of Chemistry, University of Colorado, Boulder, USA*), Thomas F. Magner, Roncevic, Josef Michl
Two-Dimensional Oxidative Polymerization of Zn Porphyrin to Porphene: Mechanism

CANCELED

9. Exotic porphyrins and novel pyrrolic macrocycles

S09-P-001

Reena (*Indian Institute of Technology Roorkee, Roorkee, India*), Muniappan Sankar
Synthesis, Structural, Spectral, and Electrochemical Redox Properties of mono- β Fused Porphyrins

S09-P-002

Amir Sohel Bulbul (*Department of Chemistry, Indian Institute of Technology Roorkee, Roorkee, India*), Vikram Rathour, Vellaichamy Ganesan
 π -Extended Nonplanar Cobalt Porphyrins Immobilized MWCNTs as Efficient Electrocatalysts for Selective ORR

S09-P-003

Aleksandra Galazka (*Department of Chemistry, University of Wroclaw, Wroclaw, Poland*), Natasza Sprutta, Emilia Ganczar, Marcin Stepień, Piotr Jan Chmielewski
Trans-5,10,15,20-tetra(pentafluorophenyl)diazuliporphyrin - Synthesis and Characteristics

S09-P-004

Dominika Kasperek (*University of Wroclaw, Wroclaw, Poland*), Agata Bialonska, Ewa Pacholska-Dudziak
Synthesis of osmium-containing porphyrinoids: metallaporphyrins and multinuclear complexes

S09-P-005

Paulina Krzyszowska (*Department of Chemistry, University of Wroclaw, Wroclaw, Poland*), Emilia Ganczar, Ewa Pacholska-Dudziak
How many metal atoms can one porphyrin bind? Synthesis of porphyrin-cluster hybrids

S09-P-006

Viola Munzert (*Institut für Anorganische Chemie, Tübingen, Germany*), Doris Kunz
Intriguing Selectivity and Flexibility of an Expanded Porphyrinoid Ligand

S09-P-007

Monika Przewoznik (*Department of Chemistry, University of Wroclaw, Wroclaw, Poland*), Bartosz Szyszko, Emilia Ganczar, Lechosław Latos-Grazynski
Silver(III) and Iron(III) 21-Carbaporphyrins – Formation and Transformations

10. NIR-responsive porphyrinoids

S10-P-001

Amir Sohel Bulbul (*Department of Chemistry, Indian Institute of Technology Roorkee, Roorkee, India*), Muniappan Sankar
 π -Extended NIR Absorbing Porphyrin-Tetracyanobutadiene (TCBD) Chromophores for Optoelectronic Applications

11. Advances in chemistry and applications of porphyrazines

S11-P-001

Mélanie Cyr (*University of Ottawa, Department of Chemistry and Biomolecular Sciences, Ottawa, Canada*), Halyne Lamontagne, Benoît Lessard, Jaclyn Brusso

Exploring oxy phosphorus triazatetrabenzocorrole (POtbc) and its analogues as p-type semiconductors in organic thin film transistors

S11-P-003

Daniil N. Finogenov (*Organic Chemistry, Ivanovo, Russia*), Alexey E. Chufarin, Dmitry A. Lazovskiy, Ivan A. Skvortsov, Pavel A. Stuzhin

Octacarboxy TPyzPzM as perspective building blocks for organic frameworks

S11-P-002

Daniil N. Finogenov (*Organic Chemistry Department, Ivanovo State University of Chemistry and Technology, Ivanovo, Russia*), Maxim A. Faraonov, Alina S. Kopylova, John Mack, Yuriy A. Zhabanov, Pavel A. Stuzhin

Perhalogenated TPyzPzs and Pcs as perspective compounds in various applications

S11-P-005

Pavel Stuzhin (*Ivanovo State University of Chemistry & Technology, Ivanovo, Russia*), Dmitry A. Lazovskiy, Nikita A. Migal'

Hydrolytic scission of P(V) octaphenylporphyrazine and formation of novel diazatripyrrinedione complex

S11-P-004

Pavel Stuzhin (*Ivanovo State University of Chemistry & Technology, Ivanovo, Russia*), Ekaterina D. Rychikhina, Svetlana S. Ivanova

Si(IV) complexes of octaaryl-substituted porphyrazine and corrolazine

12. Main group coordination chemistry

S12-P-001

Jam Riyan Hamza (*University of Minnesota Duluth, Duluth, USA*), Jatan Sharma, Paul Karr, Art van der Est, Francis D'Souza, Prashanth Poddutoori

Intramolecular Charge Transfer Induced High Energy Triplet Emission in Hypervalent Phosphorus(V) and Antimony(V) Porphyrins Black Dyes.

S12-P-002

Leonard Neuhaus (*Philipps-University Marburg, Marburg, Germany*), Florian Münster, Cassandra Zoltner, Stefan R. Kachel, Jan Herritsch, Lukas Heulick, Peter Schweyen, Martin Bröring, J. Michael Gottfried

Solvent-Free Synthesis of Alkali Metal Porphyrins and Corroles

S12-P-003

Jatan Kumar Sharma (*Department of Chemistry, Denton, USA*), Brandon J. Bayard, Nick Zosel, Noah Holzer, Steven Peterson, Syeda Ali, Vladimir N. Nesterov, Prashanth K. Poddutoori, Francis D'Souza

Intramolecular Charge Transfer (ICT) in Main Group Porphyrin-Based Push-Pull Systems

13. Expanded porphyrins/aromaticity

S13-P-001

Pradeep P. Desale (*Inha University, Incheon, Korea*), Min-Sung Ko, Dong-Gyu Cho

The fundamental difference between simple arenes and PAHs found in o-PAH-connected porphyrins

S13-P-002

Aathira Edwin (*Department of Chemistry, Indian Institute of Science Education and Research, Thiruvananthapuram, Trivandrum, India*), Gayathri Krishnan, Ajay Jayaprakash, Sankeerthana Pathiyil Anilkumar, Gokulnath SabapathiTemplate Assisted Formation of 32 and 34 π Octaphyrins Embedded with Dithienopyrrole Cores: A New Scaffold to Unravel Proton Coupled Redox Switching and (Anti)Aromaticity

S13-P-003

Thanaphon Khrueawatthanawet (*Sorbonne University, Paris, France*), Stéphane Le Gac, Michaël MénandSynthesis of face-to-face sandwiched hexaphyrin-cyclodextrin hybrids for unorthodox π -type interactions

S13-P-005

Ye Jin Kim (*Department of Chemistry Sookmyung Women's University, Korea, Seoul, Korea*), Jung Su Park

Switchable Electronic and Optoelectronic Properties in Tetrathiafulvalene (TTF)-Annulated Rubyrins

S13-P-004

Ye Jin Kim (*Department of Chemistry Sookmyung Women's University, Korea, Seoul, Korea*), Jung Su Park

Switchable Electronic and Optoelectronic property in Tetrathiafulvalene (TTF)-Annulated Rubyrins

S13-P-006

Se Young Park (*Department of Chemistry, Sookmyung Women's University, Seoul, Korea*), Jung Su Park

Switching Aromaticity in Fused Bicyclic Decaphyrin

S13-P-007

Tae-Ho Roh (*Inha University, Incheon, Korea*), Min-Sung Ko, Dong-Gyu Cho

Effects of Electron-Withdrawing and Electron-Donating Groups on Aromaticity in Cyclic Conjugated Polyenes

S13-P-008

Masaaki Suzuki (*Graduate School of Natural Sciences and Technology, Shimane University, Matsue, Japan*), Yoichi Nagano

Type-I Conformation of Hexaphyrins(1.1.1.1.1.1) Caused by Electron-Withdrawing Properties of meso-Aryl Substituents

CANCELED

15. Chirality in porphyrin chemistry

S15-P-001

Ilaria Di Filippo (*University of Rome Tor Vergata, Rome, Italy*), Reiko Oda, Zakaria Anfar, Manuela Stefanelli, Gabriele Magna, Donato Monti, Corrado Di Natale, Roberto Paolesse

Hybrid materials based on silica nanohelices covered with porphyrins for volatile enantiomer detection

S15-P-002

Ilaria Di Filippo (*University of Rome Tor Vergata, Rome, Italy*), Gabriele Magna, Manuela Stefanelli, Donato Monti, Roberto Paolesse

Chiral porphyrin aggregates for amino acid recognition

16. Porphyrinoids at interfaces

S16-P-001

Miguel Martínez (*Organic Chemistry Department, Universidad Autónoma de Madrid, Madrid, Spain*), Feifei Xiang, Roman Fasel, Giovanni Bottari, Tomás Torres

Fabrication and Characterization of Open-shell [3]Triangulene-fused Porphyrins

S16-P-002

Florian Münster (*Philipps-Universität Marburg, Marburg, Germany*), Lukas Heuplick, Grigori Pasko, Jan Herritsch, J. Michael Gottfried

Vacuum Deposition of Porphyrins via Electrospray Ionization Ion Beam Technique

17. Sensors

S17-P-001

Joana Barata (*Department of Chemistry, Aveiro, Portugal*), Pedro Conceição, Miguel A Hernandez-Rodriguez, Paula S.S. Lacerda, Maria G.P.M.S. Neves, Luís D. Carlos, Tito Trindade

Ratiometric nanothermometry via porphyrin inner filter effect applied to colloidal ZnS quantum dots

18. Self-assembled systems and materials

S18-P-001

Stefan Bednarik (*Faculty of Pharmacy in Hradec Kralove, Charles University, Hradec Kralove, Czech Republic*), Petr Zimcik, Jiri Demuth, Veronika Novakova

Assembly of phthalocyanine analogues into J-dimers

S18-P-002

Matthew Crawley (*Department of Chemistry, University at Buffalo, Amherst, USA*), Daoyang Zhang, Timothy Cook

Exploring Molecular and Electronic Structure of Cofacial Porphyrin Prisms Formed by Coordination-Driven Self-Assembly

S18-P-003

Alessandra Esposito (*Department of Chemical Sciences, University of Naples Federico II, Naples, Italy*), Linda Leone, Alfonso De Simone, Giuliana Fusco, Flavia Nastri, Angela Lombardi
Crafting Functional Materials with Artificial Heme-Enzymes

S18-P-004

Jana Lapesova (*Department of Pharmaceutical Chemistry and Pharmaceutical Analysis, Faculty of Pharmacy in Hradec Kralove, Charles University, Hradec Kralove, Czech Republic*), Petr Zimcik
A Clickable Azaphthalocyanine Derivative for Ternary Complexes Facilitated by Cucurbit[8]uril

S18-P-005

Matthias Lehmann (*Institute of Organic Chemistry, University of Würzburg, Würzburg, Germany*), Lisa Reber
Porphyrin Star Mesogens and the Supramolecular Click Process– a Success Story?

S18-P-006

Sangyoon Oh (*Department of Chemistry, Yonsei University, Seodaemun-gu, Seoul, Korea*), Woo-Dong Jang
Recognition of atomic-level difference in porphyrin dyads for self-sorted supramolecular polymer growth

19. Artificial photosynthetic systems (*in honor of Nikolai Tkachenko*)

S19-P-001

Ajyal Z. Alsaleh (*Chemistry Department, Imam Abdulrahman bin Faisal University, Dammam, Saudi Arabia*), Shahrzad Kazemi, Paul A. Karr, Francis D'Souza
A nanotube binding molecular cleft: Role of carbon nanotubes in slowing charge recombination in supramolecular C60-bisstyrylBODIPY-(zinc porphyrin)₂ donor-acceptor hybrids

S19-P-002

Greta Fogar (*Department of Chemical and Pharmaceutical Sciences/University of Trieste, Trieste, Italy*), Agnese Amati, Mirco Natali, Elisabetta Iengo
Metallo-porphyrin/amino acid conjugates for Proton-Coupled Electron Transfer

S19-P-003

Swathi Krishna (*Friedrich-Alexander Universität Erlangen-Nürnberg, Erlangen, Germany*), Elena Cañizares-Espada, David Guzmán, M. Salomé Rodríguez-Morgade, Tomás Torres, Dirk M. Guldi
Photoinduced Electron and Energy Transfer Processes in Ruthenium(II) Phthalocyanine-Subporphyrazine Conjugates

S19-P-004

Jatan Kumar Sharma (*University of North Texas, Denton, USA*), Manan Guragain, Dilip Pinjari, Rajneesh Misra, Francis D'Souza
Zinc Tetrapyrrole Coordinated to Imidazole Functionalized Tetracyanobutadiene or Cyclohexa-2,5-diene-1,4-diylidene-expanded-tetracyanobutadiene Conjugates: Dark vs. Light-Induced Electron Transfer

20. Porphyrin framework materials

S20-P-001

Kang Ho Chu (*Yonsei University, Seoul, Korea*), Woo-Dong Jang

Retention of Intrinsic Photophysical Properties of Porphyrin Building Blocks in 3D Organic Frameworks through Magic Angle Alignment

S20-P-002

Ting Han (*Department of Chemistry, University of North Texas, Denton, USA*), Hong WangDesign and Synthesis of Polyimide Covalent Organic Frameworks based on the β -Functionalized Porphyrin

S20-P-003

Theresa Mautz (*Graz Technical University, Institute of Analytical Chemistry and Food Chemistry, Graz, Austria*), Georg Schwendt, Christian Slugovc, Sergey Borisov

Optical Oxygen Sensing with Luminescent (Surface-Anchored) Metal-Organic Frameworks

S20-P-004

Ayan Paul (*Department of Chemistry, University of North Texas, Denton, USA*)Design and Synthesis of conjugated Donor-Acceptor Covalent Organic Frameworks based on π -extended porphyrin and phthalocyanine

21. Catalysis

S21-P-001

Anu Janaagal (*Chemistry/IIT Gandhinagar, Gandhinagar, India*), Iti Gupta

Photoredox Catalysis by Porphyrins: C-H Activation of Organic Substrates

S21-P-002

Usha Kalra (*Seton Hall University, South Orange, USA*), Anahi Flores, Reva Pavithran, Abdul Azeez, Sergiu M. Gorun, James E. Hanson

Photocatalysis with Adsorbed Fluorinated Phthalocyanines

S21-P-003

Brandon Pineda (*Seton Hall University, South Orange, USA*), Reva Pavithran, Abdul Azeez, Sergiu Gorun, James Hanson

Photo-oxidation with Fluorinated Phthalocyanine Materials: Metal Oxide Supports and Polymer Coatings

S21-P-004

Jonathan Pinnock (*Seton Hall University, South Orange, USA*), Kai Hansen, Alexander Fadeev

Encapsulation of Perfluorinated Zinc Phthalocyanines in Mesoporous Silicas and Silicates

S21-P-005

Ludivine Poyac (*Institut Charles Gerhardt, Montpellier, France*), Stefano Scodditti, Xavier Dumail, Michel Granier, Sébastien Clément, Rafael Gramage-Doria, Charles H. Devillers, Sébastien Richeter

Electronic, steric and catalytic properties of N-heterocyclic carbene rhodium(I) complexes linked to (metallo)porphyrins

S21-P-006

Edrice Sediq (*Seton Hall University, South Orange, USA*), Abdul Azeez, Sergiu Gorun, James Hanson
Photo-oxidation with Fluorinated Phthalocyanines Adsorbed on γ -Alumina

S21-P-007

Peter Stahl (**Ludwigs-Maximilians-Universität (LMU)**, *Munich, Germany*), Ivana Ivanovic-Burmazovic
Influence of Charged Moieties on the Performance of Porphyrin Photocatalysts for CO₂ Reduction

S21-P-008

Christian Wilhelm (**Department of Inorganic Chemistry, Ludwigs-Maximilians-Universität (LMU)**, *Munich, Germany*), Ivana Ivanovic-Burmazovic
Shaping the Second Coordination Sphere for Electrocatalytic Energy Conversion

S21-P-009

Daoyang Zhang (*Department of Chemistry, University at Buffalo, The State University of New York, Buffalo, USA*), Matthew Crawley, Timothy Cook
Post-synthetic Modification of Bis-iron(III)- μ -oxo-porphyrin Prisms to Enhance Oxygen Reduction Electrocatalysis

22. Solar cells and electronics

S22-P-001

Angelo Carella (*Dipartimento di Scienze Chimiche, Padova, Italy*), Susanna Ciuti, Chiara Dalla Torre, Alvaro Siano, Marta De Zotti, Marilena Di Valentin
Study of peptide-mediated photo-induced electron transfer in a porphyrin-titania system for dye-sensitized solar cells

S22-P-002

Rosemary Cranston (*University of Ottawa, Ottawa, Canada*), Benoit Lessard
Solution Processable N-Type Silicon Phthalocyanines for Organic Thin-Film Transistors

S22-P-003

Mamadou Lo (*Assane Seck University, Ziguinchor, Senegal*), Ibrahima Paka Manga, Abdoulaye Gassama, Jean Weiss
Porphyrin core and triphenylamine connected by azomethine link: Synthesis and characterization

24. Redox chemistry and electrochemistry of porphyrinoids and oligopyrroles

S24-P-002

Charles H. Devillers (*Institut de Chimie Moléculaire de l'Université de Bourgogne, Dijon, France*), Fatima Akhssas, Rongning Lin, Michal Trojan, Ludivine Poyac, Thibault Ertel, Sophie Fournier, Hélène Cattey, Sébastien Richeter
Azolium-Porphyrin Electrosynthesis

S24-P-001

Charles H. Devillers (*Institut de Chimie Moléculaire de l'Université de Bourgogne, Dijon, France*), Fatima Akhssas, Anna Krystianiak, Olivier Heintz, Eric Lesniewska, Régis Parvaud, Rita Meunier-Prest
Pyridinyl-Based Modified Electrode as Nucleophile for the Oxidative Electrografting of Porphyrin

S24-P-003

Mbulelo Jokazi (*Institute of Nanotechnology Innovation Rhodes University, Makhanda, South Africa*), Tebello Nyokong
The effect of TiO₂ nanoparticles on the catalytic activity of a porphyrin towards electrochemical sensing and photoelectrode gradation of pentachlorophenol

S24-P-004

Sachin Kumar (*Schulich Faculty of Chemistry Technion, Haifa, Israel*), Zeev Gross
Non-metals chelated by Redox-Active Chelators as Electrocatalysts for Hydrogen Evolution Reaction (HER)

S24-P-005

Sachin Kumar (*Israel Institute of Technology, Technion, Haifa, Israel*), Zeev Gross
Post Transition and Non-PGMs as Efficient Electrocatalysis for HER

S24-P-006

Ji-Young Shin (*Graduate School of Engineering/Nagoya University, Nagoya, Japan*), Shaoning Zhang, Jinkwang Hwang
Sufficiently enriched dual-ion batteries with ferrocenyl-substituted NiNc organic electrodes

S24-P-007

Aswini Spergen (*Department of Chemistry, Indian Institute of Science Education and Research, Trivandrum, India*), Kalaiselvan Arumugam
Redox-Active Dihydroindolo(2,3a)carbazole-Based Macrocycles and Their [b]-Annulated BODIPY Complexes Exhibiting Near-IR Electrochromism

25. Porphyrin derivatives for medical and biological applications

S25-P-001

Zoe A. Arnaut (*CQC-IMS, Chemistry Department, University of Coimbra, Coimbra, Portugal*), Christine Cruz-Oliveira, Miguel A.R.B Castanho, Mariette M. Pereira

Structure-activity relationship of functionalized porphyrins for ZIKV inactivation

S25-P-002

Zoe A. Arnaut (*CQC-IMS, Chemistry Department, University of Coimbra, Coimbra, Portugal*), Alexandre P. Felgueiras, Fábio M.S. Rodrigues, Rafael T. Aroso, Alberto A.C.C. Pais, Mariette M. Pereira

Synthesis of various meso-aryl porphyrins using flow chemistry

S25-P-003

Rafael T. Aroso (*University of Coimbra, Coimbra, Portugal*), Carolina V. Domingos, Fábio M. S. Rodrigues, Gabriela J. Silva, Rui M. B. Carrilho, Mariette M. Pereira

Unraveling the Impact of Photosensitizer Structure on the Antibacterial Prowess of Photodecontaminant Biopolymers

S25-P-004

Jaydeepsinh Chavda (*Department of Chemistry, Indian Institute of Technology Gandhinagar, Gandhinagar, India*)

Diazaporphyrins-Based Novel Photosensitizers for PDT

S25-P-005

Dorota Chelminiak-Dudkiewicz (*Faculty of Chemistry, Nicolaus Copernicus University in Torun, Torun, Poland*), Aleksander Smolarkiewicz-Wyczachowski, Kinga Mylkie, Marta Ziegler-Borowska

Zinc phthalocyanine/biopolymer complex as a bifunctional agent for wound dressing

S25-P-006

Jason Guzman (*Dept. Chemistry & Biochemistry, Seton Hall University, South Orange, USA*), James Hanson

Synthesis & Characterization of a Novel Cationic Porphyrin via Click Chemistry

S25-P-007

Chloe Howells (*University of Southampton, Southampton, United Kingdom*), Teresa Lauria, Daniel Singleton, Eugen Stulz

Porphyrin Stabilised G-Quadruplexes

S25-P-008

Yuan Luo (*University at Buffalo, Buffalo, USA*), Yiting Song

Porphyrin-based lipid nanoparticles vaccine for adjuvants screening and rapid induction of tumoricidal CD8⁺ T cells

S25-P-009

Vincent Sol (*University of Limoges, LABCiS UR22722, Limoges, France*), Luce Janice Nzimbou, Frédérique Bregier

Synthesis of new derivatives of purpurine imide with functional group

S25-P-010

Martina Vermathen (*Dept. Chemistry, Biochemistry & Pharmaceutical Sciences, University of Bern, Bern, Switzerland*), Tyrone Wyss, Helena Röss, Gabriela Vorburger, Ilche Gjuroski, Sabine Kaessmeyer
Skin Models for Probing the Penetration of Encapsulated Photosensitizers

S25-P-011

Shiqi Zhou (*SUNY-Buffalo, Buffalo, USA*), Milton Maciel Jr., Jonathan Lovell
Antibody induction in mice by cobalt porphyrin-phospholipid liposome-displayed recombinant enterotoxigenic *Escherichia coli* colonization antigens

26. Medical applications of tetrapyrrole-based compounds

S26-P-001

Paula Daniela Mestizo (*Department of Chemistry, Zurich, Switzerland*), Felix Zelder
Vitamin B12 Conjugates for Targeted Cancer Therapy

29. Porphyrinoid-based materials for biomedicine and the environment

S29-P-001

Claude P. Gros (*ICMUB (UMR CNRS 6302), Dijon, France*), Margerie Loze, Stéphane Brandès, Virginie Blondeau-Patissier, Nicolas Desbois, Laurie André
Grafting cobalt corroles to PCN-222 Metal-Organic Framework for the Detection of Carbon Monoxide

30. Anticancer PDT

S30-P-001

Mary Angelia Alfred (*Department of Pharmaceutical Chemistry and Pharmaceutical Analysis, Faculty of Pharmacy in Hradec Kralove, Charles University, Hradec Kralove, Czech Republic*), Nida Çavdarbasha, Veronika Novakova
In-cell Activatable Phthalocyanines for Photodynamic Therapy of Cancer

S30-P-002

Magdaléna Kozlíková (*Charles University, Faculty of Pharmacy in Hradec Králové, Hradec Králové, Czech Republic*), Monika Rohlíčková, Dominika Daničová, Katerina Vlková, Veronika Nováková, Petr Zimčík, Miloslav Macháček
Photochemical internalization mediated by amphiphilic phthalocyanine photosensitizers

S30-P-003

Ngwanabjala Bridged Magaela (*Institute for Nanotechnology Innovation, Department of Chemistry, Rhodes University, Makhanda, South Africa*), Tebello Nyokong, Muthumuni Managa
Photodynamic therapy of Sn-tetra pentafluorophenyl porphyrin loaded onto spermine-modified carbon nanospheres for enhanced cancer selectivity.

S30-P-004

Irene Paramio (*Universidad Autónoma de Madrid, Madrid, Spain*), Mireia Jordà-Redondob, Tomás Torres, Santi Nonell, Gema De la Torre

Synthesis and photoinmunotherapeutic abilities of antibody-Aza-BODIPY bioconjugates

S30-P-005

Sébastien Clément (*Institut Charles Gerhardt (ICGM), Montpellier, France*), Amina Merabti, Christophe Nguyen, Alessio Nocentini, Sébastien Richeter, Magali Gary-Bobo, Claudiu T. Supuran, Jean-Yves Winum

Porphyrin-based photosensitizers decorated with carbonic anhydrase inhibitors for targeted treatment of hypoxic tumours

S30-P-006

Kyoung Sub Kim (*Dept. of BioMedical-Chemical Engineering, The Catholic University of Korea, Gyeonggi-do, Korea*)

Nanoparticles for tumor immunotherapy using combined treatment of photodynamic therapy and metallic immunotherapy

33. Antimicrobial PDT

S33-P-001

Crispin Ndundu Akwesi (*Université de Kinshasa, Kinshasa, Zaire*)

Photophysical properties and photodynamic antimicrobial study of 2,6 – dibromo – BODIPY substituted by 3-bromo 4-hydroxy styryl at 3,5 positions

S33-P-002

Adelaide Almeida (*Biology, Aveiro, Portugal*), Daniela Silva, Cátia Vieira, Inês Mendonça, M. Graça P. M. S. Neves, M. Amparo F. Faustino, Maria Bartolomeu, Adelaide Almeida

Antimicrobial Photodynamic Therapy (aPDT) for the Treatment of Bacterial Urinary Infections

S33-P-003

Joana F. B. Barata (*CESAM, Aveiro, Portugal*), Maria Bartolomeu, Paula S.S. Lacerda, Ana T. P. C. Gomes, Ana S. Duarte, Adelaide Almeida, Maria A. F. Faustino, Maria G.P.M.S. Neves

Studies of antimicrobial efficiency of corroles against *Staphylococcus aureus*

S33-P-004

M. Amparo F. Faustino (*Dept. of Chemistry /University of Aveiro, Aveiro, Portugal*), Melani J. A. Reis, Cátia Vieira, Maria Bartolomeu, Ana M. V. M. Pereira, Adelaide Almeida, Maria G. P. M. S. Neves, Nuno M. M. Moura

Free-base porphyrins containing nitrogen-donor moieties as photosensitizers against *Staphylococcus aureus*

S33-P-005

Hugues Gambolo Kabeya (*Université de Kinshasa, Kinshasa, Zaire*)

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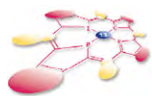
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Specialized Symposia

Synthesis (7)

1. SubPcs, SubPzs, SubPors, and related contracted porphyrinoids

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

2. Corroles

Daniel Gryko, Sara Nardis, Takayuki Tanaka & Roberto Paolesse

3. Advances in phthalocyanine chemistry and related porphyrinoids (in honor of Roeland J.M. Nolte)

Tomás Torres, Andrew Cammidge & Gema de la Torre

4. N-fused and N-confused porphyrinoids

Hiroyuki Furuta & Muniappan Sankar

5. Porphycenes

Jacek Waluk & Arkadiusz Listkowski

6. Functional porphyrins

Claude Gros & Mathias Senge

7. New development in BODIPY analogs

Victor Nemykin & Christophe Ziegler

Characterization (7)

8. Porphenes: A porphyrin analog of graphene (in honor of Josef Michl)

Josef Michl

9. Exotic porphyrins and novel pyrrolic macrocycles

Changhee Lee, Hong Wang & Pradeepta Panda

10. NIR-responsive porphyrinoids

Yoshihiro Matano, Hiroko Yamada & Taniyuki Furuyama

11. Advances in chemistry and applications of porphyrazines

Pavel Stuzhin & Petr Zimcik

12. Main group coordination chemistry

David Churchill & Prashanth Poddutoori

13. Expanded porphyrins/aromaticity

Jonathan Sessler, Dongho Kim & Hiroshi Shinokubo

15. Chirality in porphyrin chemistry

Alessandro D'Urso, Manuela Stefanelli & Victor Borovkov

Materials (4)

16. Porphyrinoids at interfaces

Willi Auwärter, David Écija, Ursula Mazur, Kerry Hipps & Wolfgang Schöfberger

17. Sensors

Marcel Bouvet & Corrado Di Natale

18. Self-assembled systems and materials

Giovanni Bottari, Athanassios Coutsolelos & David Gonzalez-Rodriguez

19. Artificial photosynthetic systems (in honor of Nikolai Tkachenko)

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

Energy (4)

21. Catalysis

Dorota Gryko & Peter Zhang

22. Solar cells and electronics

Hiroshi Imahori & Fabrice Odobel

23. Spin transport in molecular and nanoscale systems

Michael Therien & Ron Naaman

24. Redox chemistry and electrochemistry of porphyrinoids and oligopyrroles

Charles Devillers & Gabriel Canard

Biomedical (8)

25. Porphyrin derivatives for medical and biological applications

Graça Vicente & Mariette Pereira

26. Medical applications of tetrapyrrole-based compounds

Fabienne Dumoulin, Anu Puri, Jonathan Lovell, Zeev Gross & Gang Zheng

28. Dedicated to Dr. Kessel

Ravindra Pandey & Kevin Smith

29. Porphyrinoid-based materials for biomedicine and the environment

Francesca Giuntini & Antonino Mazzaglia

30. Anticancer PDT

Joao Tomé

31. Imaging & Optical imaging

Veronika Novakova, Anzhela Galstyan & Ulas Sunar

33. Antimicrobial PDT

Amparo Faustino & Adelaide Alemeida

34. Development of advanced photosensitizers

Pui-Chi Lo & Luis Arnaut

Biochemistry (5)

35. Heme proteins and synthetic analogs

John Dawson & Takashi Hayashi

36. Catalysis in natural and biosynthetic heme proteins

Anabella Ivancich & Giulietta Smulevich

37. Chemistry and biology of corrinoids and related compounds

Felix Zelder & Dorota Gryko

38. Natural porphyrinoid pigments

Bernhard Kräutler & Franz-Peter Montforts

39. Heme enzymes: Structure and function

Denis Rousseau & Syun-Ru Yeh

Theory (2)

40. Theory and spectroscopy

Nagao Kobayashi & Martin Stillman

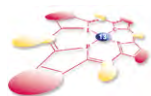
41. Optical spectroscopy

Mikalai Kruk, Sergei Vinogradov, John Mack & Zhen Shen

Specialized Symposia Schedule of Oral Presentations

	Monday 24 June			Tuesday 25 June			Thursday 27 June			Friday 28 June		
	AM 10:00 - 12:00	PM 13:30 - 15:30	16:00 - 17:00	AM 10:00 - 12:00	PM 13:30 - 15:30	16:00 - 17:30	AM 10:00 - 12:00	PM 13:30 - 17:00	17:00 - 18:00	AM 10:00 - 12:00	PM 13:30 - 15:30	16:00 - 17:00
Room 1 BALLROOM A	21. Catalysis <i>organized by</i> Dorota Gryko, Peter Zhang.		2. Corroles <i>organized by</i> Daniel Gryko, Sara Nardis, Takayuki Tanaka, Roberto Paolesse.	7. New development in BODIPY analogs <i>organized by</i> Victor Nemykin, Christopher Ziegler.		1. SubPcs, SubPzs, SubPors and related contracted porphyrinoids <i>organized by</i> Timothy Bender, M. Salomé Rodríguez-Morgade, Soji Shimizu.	4. N-fused & N-confused porphyrinoids <i>organized by</i> Hiroyuki Furuta, M. Sankar		3. Advances in phthalocyanine chemistry and related porphyrinoids (in honor of Roeland J. M. Nolte) <i>organized by</i> Tomás Torres, Andrew Cammidge, Gema de la Torre.	5. Porphycenes <i>organized by</i> Jacek Waluk, Arkadiusz Listkowski.		6. Functional porphyrins <i>organized by</i> Claude Gros, Mathias Senge.
Room 2 BALLROOM B	10. NIR-responsive porphyrinoids <i>organized by</i> Yoshihiro Matano, Hiroko Yamada, Taniyuki Furuyama.		11. Advances in the chemistry and applications of porphyrazines <i>organized by</i> Pavel Stuzhin, Petr Zimcik.	13. Expanded porphyrins / aromaticity <i>organized by</i> Jonathan Sessler, Dongho Kim, Hiroshi Shinokubo.		9. Exotic porphyrins and novel pyrrolic macrocycles <i>organized by</i> Chang-Hee Lee, Hong Wang, Pradeepa Panda.	8. Porphenes: A porphyrin analog of graphene (in honor of Josef Michl) <i>organized by</i> Josef Michl		40. Theory and spectroscopy <i>organized by</i> Martin J. Stillman, Nagao Kobayashi.	41. Optical spectroscopy <i>organized by</i> Mikalai Kruk, Sergei Vinogradov, John Mack, Zhen Shen.		15. Chirality in porphyrin chemistry <i>organized by</i> Alessandro D'Urso, Manuela Stefanelli, Victor Borovkov.
Room 3 PORTER/ DEVAUX	16. Porphyrinoids at interfaces <i>organized by</i> Willi Auwärter, David Ecija, Ursula Mazur, Kerry Hipps, Wolfgang Schöfberger.		16. Porphyrinoids at interfaces <i>organized by</i> Willi Auwärter, David Ecija, Ursula Mazur, Kerry Hipps, Wolfgang Schöfberger.	22. Solar cells and electronics <i>organized by</i> Hiroshi Imahori, Fabrice Odobel.		19. Artificial photosynthetic systems (in honor of Nikolai Tkachenko) <i>organized by</i> Dirk Guldi, Angela Sastre-Santos, Francis D'Souza.	17. Sensors <i>organized by</i> Marcel Bouvet Corrado Di Natale.		20. Porphyrin framework materials <i>organized by</i> Shengqian Ma.	18. Self-assembled systems and materials <i>organized by</i> Giovanni Bottari, Athanasios Coutsolelos, David Gonzalez-Rodriguez.		18. Self-assembled systems and materials <i>organized by</i> Giovanni Bottari, Athanasios Coutsolelos, David Gonzalez-Rodriguez.
Room 4 RED JACKET	39. Heme enzymes: Structure and function <i>organized by</i> Denis Rousseau, Syun-Ru Yeh.		23. Spin transport in molecular and nanoscale systems <i>organized by</i> Michael Therien, Ron Naaman.	35. Heme proteins and synthetic analogues <i>organized by</i> John Dawson, Takashi Hayashi.		35. Heme proteins and synthetic analogues <i>organized by</i> John Dawson, Takashi Hayashi.	24. Redox chemistry and electrochemistry of porphyrinoids and oligopyrroles <i>organized by</i> Charles Devillers, Gabriel Canard.		36. Catalysis in natural and biosynthetic heme proteins <i>organized by</i> Anabella Ivancich, Giulietta Smulevich.	38. Natural porphyrinoid pigments <i>organized by</i> Bernhard Kräutler, Franz-Peter Montforts.		37. Chemistry and biology of corrinoids and related compounds <i>organized by</i> Felix Zelder, Dorota Gryko.
Room 5 GOVERNOR'S	25. Porphyrin derivatives for medical and biological applications <i>organized by</i> Graça Vicente, Murielle Pereira.		30. Anticancer PDT <i>organized by</i> João Tomé.	28. Dedicated to Dr. Kessel <i>organized by</i> Ravi Pandey, Kevin Smith.		31. Imaging & Optical Imaging <i>organized by</i> Veronika Novakova, Anzhela Galstyan Ulas Sunar.	29. Porphyrinoid-based materials for biomedicine and the environment <i>organized by</i> Francesca Giuntini, Antonino Mazzaglia.		26. Medicinal applications of tetrapyrrole-based compounds <i>organized by</i> Jonathan Lovell, Gang Zheng.	26. Medicinal applications of tetrapyrrole-based compounds <i>organized by</i> Zeev Gross, Anu Puri.		26. Medicinal applications of tetrapyrrole-based compounds <i>organized by</i> Fabienne Dumoulin.

SYNTHESIS	CHARACTERIZATION
MATERIALS	ENERGY
BIOMEDICAL	BIOCHEMISTRY
THEORY	



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