Sixth International Conference on Porphyrins and Phthalocyanines (ICPP-6)
July 4 -9, 2010, New Mexico, USA

Organized by
Society of Porphyrins and Phthalocyanines (SPP)

Scope of the Conference
All aspects of porphyrins, phthalocyanines and related macrocycles will be discussed in the form of Plenary Lectures, Keynote Talks, Symposium Lectures, short oral presentations and posters over the full five-day period of the meeting. Six scientists will be honored by Lifetime Achievement Awards in 2010 and three JPP/SPP Young Investigator Awards will also be presented at the meeting. All awards will be accompanied by highlighted award lectures.

Co-Chairmen
Karl M. Kadish (Houston, TX, USA)
Jonathan Sessler (Austin, TX, USA)
David Goldberg (Baltimore, MD, USA)

National Representatives:
see SPP website at: http://www.u-bourgogne.fr/spp/

Further information
Prof. Karl M. Kadish (Houston, TX, USA)
ICPP-6 website at http://www.icpp-spp.org
Sixth International Conference on Porphyrins and Phthalocyanines (ICPP-6)

July 4 -9, 2010
New Mexico, USA

Scientific Program arranged by day

Monday 5 July, 2010 - AM......................................................................................................... 4
Monday 5 July, 2010 - PM ...................................................................................................... 10
Tuesday 6 July, 2010 - AM..................................................................................................... 15
Wednesday 7 July, 2010 - AM .............................................................................................. 21
Wednesday 7 July, 2010 - PM .............................................................................................. 22
Thursday 8 July, 2010 - AM .................................................................................................. 27
Friday 9 July, 2010 - AM ........................................................................................................ 33
Friday 9 July, 2010 - PM ........................................................................................................ 39

Author Index .......................................................................................................................... 74
Participant List ...................................................................................................................... 82

Floor Plan ........................................................................................................................... inside back cover
Symposium schedule ............................................................................................................ back cover
Sponsors of Lifetime Achievement Awards

Roswell Park Cancer Institute
University of Rome, Tor Vergata
Hans-Fischer-Gesellschaft
Sessler Family Charitable Trust
Changzhou Kejia Chemical Co., Ltd.

Sponsors of SPP-JPP Young Investigator Awards

World Scientific Publishing Company (WSPC)
Society of Porphyrins and Phthalocyanines (SPP)

Other Sponsors

World Scientific Publishing Company (WSPC)
Society of Porphyrins and Phthalocyanines (SPP)
KMK Media
Sessler Family Charitable Trust
Frontier Scientific, Inc
Hisun Pharmaceutical Co. Ltd.
HODO Group, China
Program of ICPP-6
### Sunday 4 July, 2010

<table>
<thead>
<tr>
<th>Event</th>
<th>Location</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conference Registration</td>
<td>Mountain View Foyer</td>
<td>10:00 to 18:00</td>
</tr>
<tr>
<td>Welcome Reception</td>
<td>Kiwa Plaza</td>
<td>19:00 to 21:00</td>
</tr>
</tbody>
</table>
Monday 5 July, 2010 - Morning

Opening Ceremonies
8:15 to 8:30

Plenary/Award Lecture
Chair: Harry B. Gray
8:30 to 9:30
Zeev Gross (Schulich Faculty of Chemistry, Technion, Israel Institute of Technology, Haifa, Israel)
Corroles: The Journey from Synthesis, Coordination Chemistry, Photophysics, and Catalysis to Medicinal Applications

9:30 to 10:00 Coffee Break
S3 Porphyrins and Phthalocyanines in Solar Cells

Chair/Co-Chair: Carl Wamser and Hiroshi Imahori

Wolf Room

10:00 to 10:30  Keynote
   Harry B. Gray (California Institute of Technology, Division of Chemistry and Chemical Engineering, Pasadena, USA), Alec C. Durrell, Joshua H. Palmer
   Photophysics of Iridium(III) Corroles

10:30 to 10:50
   Hiroshi Imahori (Institute for Integrated Cell-Material Sciences (iCeMS), Kyoto University, Kyoto, Japan)
   Porphyrins as Promising Donors in Molecular Photovoltaics

10:50 to 11:10
   David Officer (ARC Centre of Excellence for Electromaterials Science and Intelligent Polymer Research Institute, University of Wollongong, Wollongong, Australia)
   Porphyrin-sensitized Titanium Dioxide Solar Cells

11:10 to 11:30
   Elena Galoppini (Chemistry Department, Rutgers University, Newark, USA), Chi-Hang Lee
   Capped Zn(II) Tetraphenyl Porphyrins as Sensitizing Dyes

11:30 to 11:50
   Tomas Torres (Organic Chemistry Department, Autonoma University of Madrid, Madrid, Spain),
   Francois Cardinali, Gema de la Torre, Mine Ince, M. Victoria Martínez- Díaz, M.-E. Ragoussi,
   Carolina Ruiz-Ganivet, Purificacion Vazquez
   On the significance of phthalocyanines in solar cells

11:50 to 12:10
   Eric Diau (Department of Applied Chemistry, National Chiao Tung University, Hsinchu, Taiwan)
   Understanding the Fundamental Processes Affecting the Device Performance for Porphyrin-Sensitized Solar Cells

12:10 to 12:30
   Carl Wamser (Department of Chemistry, Portland State University, Portland, USA), Michael Walter
   Electronically Conductive Porphyrin Polymers as Nanostructured Scaffolds for Inverse Dye-Sensitized Solar Cells

12:30 to 14:00  ICPP/SPP Business Lunch
S17 Biosynthesis of Chlorophylls

Chair/Co-Chair: Hitoshi Tamiaki and Hugo Scheer

Eagle Room

10:00 to 10:30  **Keynote**

**Donald Bryant** (Dept. of Biochemistry and Molecular Biology, The Pennsylvania State University, University Park, USA), Amaya García Costas, Zhenfeng Liu, Yusuke Tsukatani

Biosynthesis and Structural Organization of Bacteriochlorophyll c in Green Bacteria

10:30 to 10:50

**Jiro Harada** (Department of Medical Biochemistry, Kurume University, School of Medicine, Fukuoka, Japan), Keiichi Fukuyama, Masato Noguchi, Hirozo Oh-oka, Shunsuke Takahashi, Hitoshi Tamiaki, Kei Wada

C-20 Methyltransferase BchU in the Bacteriochlorophyll c Biosynthesis

10:50 to 11:10

**Jürgen Moser** (Institute for Microbiology, Technische Universität Braunschweig, Braunschweig, Germany), Markus Bröcker, Dieter Jahn, Friedhelm Lendzian, Wolfhart Rüdiger, Miguel Saggu, Hugo Scheer, Denise Wätzlich

Biosynthesis of (Bacterio)chlorophylls: ATP-Dependent Transient Subunit Interaction and Electron Transfer of Dark Operative Protochlorophyllide Oxidoreductase

11:10 to 11:30

**Yuichi Fujita** (Graduate School of Bioagricultural Sciences, Nagoya University, Nagoya, Japan), Genji Kurisu, Norifumi Muraki, Jiro Nomata

Structural Aspects of Dark-Operative Protochlorophyllide Reductase with Nitrogenase-Like Features

11:30 to 11:50

**Wim Vermaas** (School of Life Sciences, Arizona State University, Tempe, USA), Daniel Brune, Cheng Yao

Lifetimes of Chlorophyll and Chlorophyll-Binding Proteins in the Cyanobacterium *Synechocystis* sp. PCC 6803

11:50 to 12:10

**Ayumi Tanaka** (Institute of Low Temperature Science, Hokkaido University, Sapporo, Japan)

Chlorophyll Metabolism and its Regulation Mechanisms in *Arabidopsis thaliana*

12:10 to 12:30

**Bernhard Kräutler** (Institute of Organic Chemistry & Centre of Molecular Biosciences, University of Innsbruck, Innsbruck, Austria)

A New Blue Glow in Higher Plants

12:30 to 14:00  ICPP/SPP Business Lunch
S20 Activation of Small Molecules by Porphyrin Metal Complexes

Chair/Co-Chair: Wonwoo Nam, Rudi van Eldik and Alexander Sorokin

Bear Room

10:00 to 10:30  Keynote
Yoshiori Naruta (Institute for Materials Chemistry and Engineering, Kyushu University, Fukuoka, Japan), Jin-gang Liu, Annada Maity, Takehiro Ohta, Yuta Shimizu, Masatoshi Yakiyama
Dioxygen Activation on Chemical Models of Heme Enzymes

10:30 to 10:50
Kazunari Yoshizawa (Institute for Materials Chemistry and Engineering, Kyushu University, Fukuoka, Japan)
Water-Assited Oxo Mechanism for the Heme Metabolism by Hemeoxygenase

10:50 to 11:10
Rudi van Eldik (Department of Chemistry and Pharmacy, University of Erlangen-Nürnberg, Erlangen, Germany)
Mechanistic studies on reactive intermediates in Fe(III) porphyrin catalyzed oxidation reactions

11:10 to 11:30
Samuel de Visser (Manchester Interdisciplinary Biocenter, University of Manchester, Manchester, United Kingdom)
What factors influence the rate constant of substrate hydroxylation and epoxidation of iron(IV)-oxo oxidants?

11:30 to 11:50
George B. Richter-Addo (Department of Chemistry and Biochemistry, University of Oklahoma, Norman, USA), Nan Xu
A Hyponitrite-Bridged Iron Porphyrin Complex

11:50 to 12:10
Dennis Stuehr (Dept. Pathobiology, Lerner Research Institute, Cleveland Clinic, Cleveland, USA), Luciana Hannibal, Ramasamy Somasundaram
Stabilization of a Heme Compound 1 Species in the Catalytic Cycle of NO Synthase: What Factors Control the Formation and Reactivity of Compound 1?

12:10 to 12:30
Tai-Chu Lau (Biology and Chemistry, City University of Hong Kong, Hong Kong, China)
Bioinspired Redox Reactions of Ruthenium Oxo Complexes bearing Macrocyclic Tertiary Amine Ligands

12:30 to 14:00  ICPP/SPP Business Lunch
S24 Sensors

Chair/Co-Chair: Roberto Paolesse and Corrado Di Natale

Hawk Room

10:00 to 10:30  Keynote
  Kenneth S. Suslick (Dept. of Chemistry, University of Illinois at Urbana-Champaign, Urbana, USA), Liang Feng, Jonathan W. Kemling, Sung H. Lim, Christopher J. Musto
  A Colorimetric Sensor Array for Identification of Toxic Gases

10:30 to 10:50
  Daniel Filippini (IFM-Linköping University, Linköping, Sweden), Arnaldo DAmico, Corrado Di Natale, Emanuela Gatto, Ingemar Lundstorm, Stephen Macken, Muhamad Malik, Roberto Paolesse
  Spectral fingerprinting of porphyrins for ubiquitous chemical sensing

10:50 to 11:10
  Corrado Di Natale (Department of Electronic Engineering, University of Rome Tor Vergata, Rom, Italy)
  Multiple transduction of host-guest interactions in porphyrins

11:10 to 11:30
  Elzbieta Malinowska (Department of Microanalytics, Warsaw University of Technology, Warsaw, Poland), Lukasz Gorski, Monika Mroczkiewicz, Mariusz Pietrzak
  Application of Metalloporphyrins to Electrochemical Sensors

11:30 to 11:50
  Augusto Tomé (Department of Chemistry, University of Aveiro, Aveiro, Portugal), José Cavaleiro, Andreia Farinha
  New calix[4]pyrrole-based chromogenic anion sensors

11:50 to 12:10
  Marcel Bouvet (ICMUB Université de Bourgogne, Dijon cedex, France), Yanli Chen, Vicente Parra
  Molecular Semiconductors - Doped Insulators (MSDI) Heterojunctions: The key role played by the ambipolar behavior of lanthanide phthalocyanines

12:10 to 12:30
  Devens Gust (Department of Chemistry and Biochemistry, Arizona State University, Tempe, USA), Joakim Andreasson, Bradley Brennan, James Bridgewater, Miguel Gervaldo, Gez M. Laws, Paul A. Liddell, Thomas A. Moore, Ana L. Moore, Bharath R. Takulapalli, Trevor J. Thornton
  Small-Molecule Sensing Using Porphyrin Monolayers and Polymers

12:30 to 14:00  ICPP/SPP Business Lunch
S25 Theoretical and Spectroscopic Studies on Porphyrins, Phthalocyanines, and their Metal Complexes

Chair/Co-Chair: Martin Stillman and Nagao Kobayashi

Badger Room

10:00 to 10:30 Keynote
Angela Rosa (Dipartimento di Chimica, Università della Basilicata, Potenza, Italy), Giovanna De Luca, Luigi Monsù Scolaro, Giampaolo Ricciardi, Andrea Romeo
Evidence for Sitting-Atop Metalloporphyrin Complexes from Spectroscopic and Theoretical Studies

10:30 to 10:50
Naoto Ishikawa (Department of Chemistry, Graduate School of Science, Osaka University, Toyonaka, Japan)
Dynamical magnetism of coupled single-ionic single-molecule magnets in dinuclear Tb triple-decker phthalocyanine complex

10:50 to 11:10
John Mack (Tohoku University, Sendai, Japan), Nagao Kobayashi, Martin Stillman
MCD Spectroscopy and TD-DFT Calculations

11:10 to 11:30
Barry Lever (Chemistry Dept., York University, Toronto, Canada)
A DFT Analysis of Potential, Low Oxidation State, Porphyrinazines

11:30 to 11:50
Jacek Waluk (Institute of Physical Chemistry, Polish Academy of Sciences, Warsaw, Poland)
Tautomerism in porphycenes: isolated molecules, single chromophores, condensed phase environments

11:50 to 12:10
Nina Berova (Columbia University, Department of Chemistry, New York, USA)
Chiroptical Signature of Intra- and Intermolecular Porphyrin-Porphyrin Interactions

12:10 to 12:30
Roman S. Czernuszewicz (Chemistry, University of Houston, Houston, USA), Arkadiusz Czader, Daniel T. Gryko
Resonance Raman and DFT Investigation of the Chromyl and Perchromyl Bonds in Oxochromium(IV,V) Corroles

12:30 to 14:00 ICPP/SPP Business Lunch
Monday 5 July, 2010 - Afternoon

S9 Subphthalocyanines, Subporphyrazines and Subporphyrins
Chair/Co-Chair: Tomas Torres and Nagao Kobayashi

14:00 to 14:30  **Keynote**  
Atsuhiro Osuka *(Department of Chemistry, Graduate School of Science, Kyoto University, Kyoto, Japan)*, Shin-ya Hayashi, Yasuhide Inokuma, Eiji Tsurumaki  
Synthesis of Novel Subporphyrins and Related Molecules

14:30 to 14:50  
Dennis Ng *(Chemistry, The Chinese University of Hong Kong, Hong Kong, China)*, Xiong-Jie Jiang, Jian-Yong Liu, Pui-Chi Lo, Hu Xu  
Functional Subphthalocyanines for Biomedical Applications and Assembly with Other Functional Dyes

14:50 to 15:10  
Zhen Shen *(Chemistry, Nanjing, China)*  
Metal-Free and Metallosubporphyrins Containing Other than Boron

15:10 to 15:30  
David Gonzalez-Rodriguez *(Universidad Autónoma de Madrid, Madrid, Spain)*, Julia Guilleme, Dirk M. Guldi, Tomas Torres  
Subphthalocyanines: Versatile Molecular Units for Intramolecular Electron and Energy Transfer Processes

15:30 to 15:50  
Soji Shimizu *(Department of Chemistry, Graduate School of Science, Tohoku University, Sendai, Japan)*, Nagao Kobayashi, Akito Miura, Tebello Nyokong, Khene Samson, Hua Zhu  
Syntheses and Properties of Novel Subnaphthalocyanines

15:50 to 16:10  
Christian G. Claessens *(Department of Organic Chemistry, Universidad Autónoma de Madrid, Madrid, Spain)*, Anaïs Medina, Yannick Rio, Irene Sánchez-Molina, Tomás Torres  
Synthesis, Self-Organization and Applications of Some Novel Subphthalocyanines

16:10 to 16:30  
Norio Shibata *(Department of Frontier Materials, Nagoya Institute of Technology, Nagoya, Japan)*  
Trifluoroethoxy-Coated Subphthalocyanines: Synthesis, Characterization, Reactivity and Solubility

16:30 to 17:00  Coffee Break
S13 Tetrapyrrole Interaction with Mitochondria, Proteins, and Artificial and Natural Membranes

Chair/Co-Chair: Benjamin Ehrenberg and Uschi Simonis

Hawk Room

14:00 to 14:30  Keynote

David Kessel (Pharmacology, Wayne State University School of Medicine, Detroit, USA)
Effects of photodynamic therapy on the endocytic pathway and membrane trafficking

14:30 to 14:50

Michael R. Detty (Department of Chemistry, University at Buffalo, Buffalo, USA), Abraham Axelrod, Jason Benedict, Stephanie M. Bennett, Brandon D. Calitree, Benjamin Ehrenberg, Victoria Farwell, Refael Minnes, Dinesh Sukumaran, Hana Weitman, Youngjae You
Core-modified Porphyrin Derivatives as Photosensitizers in Membranes and Cells. 21,23-Dithia, 21-Thia-23-selena, and 21,23-Ditellura Analogues

14:50 to 15:10

Beate Röder (Humboldt-Universität zu Berlin, Institute of Physics, Group of Photobiophysics, Berlin, Germany), Kuan Chen, Steffen Hackbarth, Thomas Knobloch, Klaus Langer, Annegret Preuß, Matthias Wacker
In vitro observation of photosensitizer release from nanoparticles using time-resolved singlet oxygen luminescence detection

15:10 to 15:30

Graca Vicente (Department of Chemistry, Louisiana State University, Baton Rouge, USA), Timothy Jensen, Martha Sibrian-Vazquez
Mitochondria-targeting by Porphyrin Derivatives

15:30 to 15:50

Mauricio S. Baptista (Biochemistry/USP, São Paulo, Brazil)
Understanding photo-killing efficiency of photosensitizers by looking at the membranes

15:50 to 16:10

Ursula Simonis (Department of Chemistry & Biochemistry, San Francisco State University, San Francisco, USA), Lisa Altieri, Kara E. Cross, Jayanta Debnath, Meden Isaac, Anna Jung, Lenin Parrales, Anne Ritchie, Sarah Sareh, Jenny Shao, Lisa van Diggelen
Syntheses, Characterization, Cellular Uptake, and Photosensitizing Studies of Porphyrinic Pigments Aimed at Mitochondria Targeting

16:10 to 16:30

Ines Batinic-Haberle (Department of Radiation Oncology, Duke University Medical Center, Durham, USA), Mark Dewhirst, Jon Piganelli, Julio Reboucas, Ivan Spasojevic, Daret St. Clair, Artak Tovmasyan, Zeljko Vujaskovic, David Warner
The Remarkable Potency of Mn-Porphyrins in Treating Oxidative Stress Injuries Arises From Their Differential Tissue and Subcellular Distribution and Interaction with Redox-Based Transcription Factors

16:30 to 17:00  Coffee Break
S15 Porphyrins and Nucleic Acids
Chair/Co-Chair: Roberto Purrello and Nina Berova

Eagle Room

14:00 to 14:30 **Keynote**
**David McMillin** *(Chemistry, Purdue University, West Lafayette, USA)*, Breeze Briggs, Abby Gaier, Robert McGuire, Jr.
The Binding of Sterically Friendly Di-Cationic Porphyrins to DNA and RNA Platforms

14:30 to 14:50
**Marie Urbanová** *(Institute of Chemical Technology, Prague, Prague 6, Czech Republic)*, Jakub Novy, Vladimir Setnicka
Interactions of Porphyrins with Chiral Matrices by Electronic and Vibrational Circular Dichroism

14:50 to 15:10
**Eugen Stulz** *(School of Chemistry, Southampton, United Kingdom)*, Thomas Bandy, Ashley Brewer, Jonathan R. Burns, Gabriella Marth, ThaoNguyen Nguyen, Daniel Singleton
DNA as supramolecular scaffold for Porphyrin Arrays

15:10 to 15:30
**Milan Balaz** *(Department of Chemistry, University of Wyoming, Laramie, USA)*, Nina Berova, George Ellestad, Steffen Jockusch, Angela Mammana, Regina Monaco, Koji Nakanishi, Gennaro Pescitelli, Ana Petrovic, Roberto Purrello, Gevorg Sargsyan, Nicholas Turro
End-Capped Metalloporphyrin-Oligonucleotides: the Role of Metalloporphyrin on DNA Structure and DNA Aggregation.

15:30 to 15:50
**Shawn Swavey** *(Chemistry, University of Dayton, Dayton, USA)*
Design Aspects of Multi-Metallic Porphyrins for use in Photodynamic Therapy

15:50 to 16:10
**Roberto Purrello** *(Dipartimento di Scienze Chimiche, Università di Catania, 95125, Italy)*, Milan Balaz, Nina Berova, Alessandro D’Urso, Andrea Holmes, Angela Mammana
Non-covalent interactions of water-soluble porphyrins with DNA: from Z-DNA sensors to logic gates

16:10 to 16:30
**Laurence Hurley** *(University of Arizona, College of Pharmacy, Department of Pharmacology and Toxicology, Tucson, USA)*, Tracy Brooks, Thomas Dexheimer, Verónica González, Daekyu Sun
Probing the Molecular Mechanism for Turning c-Myc On and Off Using Cationic Porphyrins

16:30 to 17:00  Coffee Break
S21 Activation of Small Molecules by Phthalocyanine and Macrocyclic Metal Complexes

Chair/Co-Chair: Rudi van Eldik, Alexander Sorokin, Wonwoo Nam

Bear Room

14:00 to 14:30  Keynote

Shunichi Fukuzumi (Department of Material and Life Science, Graduate School of Engineering, Osaka University, Osaka, Japan), Takashi Kishi, Takuya Mizuno

Electron-Transfer Catalytic Oxygenation of Substrates with Water as an Oxygen Source Using Manganese Porphyrins

14:30 to 14:50

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

High-Valent Manganese-Oxo and Iron-Oxo Corrolazines: Direct OAT and HAT Reactivity, Catalytic Behavior, and Mechanistic Insights

14:50 to 15:10

Alexander Sorokin (IRCELYON, UMR 5256 CNRS - Université Lyon 1, Villeurbanne, France), Pavel Afanasiev, Vefa Ahsen, Leonardo Alvarez, Denis Bouchu, Umit Isci, Evgeny Kudrik, Jean-Marc Millet

N-Bridged Diiron Phthalocyanines and Porphyrins with Fe(III)-N=Fe(IV) unit: powerful oxidation catalysts

15:10 to 15:30

Terry Collins (Department of Chemistry, Carnegie Mellon University, Pittsburgh, USA)

The Design of Iron-TAML Activators: Effective Small Molecule Mimics of the Peroxidase Enzymes

15:30 to 15:50

Joshua Telser (Department of Biological, Chemical and Physical Sciences, Roosevelt University, Chicago, USA), John H. Horner, Martin Newcomb, Xin Sheng, Qin Wang

EPR Investigations of Cytochromes P450: The Search for the Elusive P450 Compound I

15:50 to 16:10

Qi-Zhi Ren (School of Chemistry and Chemical Engineering, Shanghai Jiaotong University, Shanghai, China), Zong-Sheng Hou, De-Yue Yan, Hong Zhang

Interactions of Water-soluble Porphyrins and the Dendritic Polymers and the Novel Porphyrin Biomimetic Catalysts

16:10 to 16:30

Markus Knipp (Max Planck Institute for Bioinorganic Chemistry, Mülheim an der Ruhr, Germany), Chunmao He

The Ferriheme Protein Nitrophorin Forms Nitric Oxide from Nitrite

16:30 to 17:00  Coffee Break
S29 Artificial Photosynthesis

Chair/Co-Chair: Anthony Harriman and Haruo Inoue

Wolf Room

14:00 to 14:30 **Keynote**

Ana Moore (Arizona State University, Tempe, USA), Jesse Bergkamp, Devens Gust, Michael Hambourger, Ernesto Mariño-Ochoa, Thomas Moore, Gary Moore, Dustin Patterson, Smitha Pillai, Benjamin Sherman, John Tomlin, Marcelo Videa

Design of Photoelectrochemical Cells for Water Splitting and Fuel Production

14:30 to 14:50

Fabrice Odobel (Chimie et Interdisciplinarité, Synthèse, Analyse, Modélisation Faculté des Sciences et des Techniques de Nantes, Nantes cedex 3, France), Fabrice Odobel

Multi-porphyrin arrays for artificial photosynthesis: long-range photoinduced electron transfer and charge photoaccumulation

14:50 to 15:10

Francis D’Souza (Chemistry, Wichita State University, Wichita, USA)

Bio-inspired Donor-Acceptor Nano-Assemblies for Light Energy Conversion: Design to Devices

15:10 to 15:30

Yutaka Amao (Department of Applied Chemistry, Oita University, Oita, Japan)

Fuel Synthesis from CO₂ Based on the Artificial Photosynthesis

15:30 to 15:50

Andrew Benniston (Molecular Photonics Laboratory, School of Chemistry, Newcastle upon Tyne, United Kingdom), Peiyi Li

Directed Electron Transfer

15:50 to 16:10

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

Dendronizing and Metalating trans-2 C₆₀ –Tetraaryl Porphyrins – a Versatile Approach Toward Water Soluble Donor Acceptor Conjugates

16:10 to 16:30

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

Ultrafast Excitation Energy Migration Processes in Various Porphyrin Arrays

16:30 to 17:00  Coffee Break
Tuesday 6 July, 2010 - Morning

Plenary/Award Lecture

Chair: Shunichi Fukuzumi

Tamaya Ballroom

8:30 to 9:30
Michael Wasielewski (Department of Chemistry, Northwestern University, Evanston, USA)
Supramolecular Integrated Systems for Artificial Photosynthesis

9:30 to 10:00  Coffee Break
S1 Self-Assembled Porphyrin and Phthalocyanine Nanostructures and Biomorphs

Chair/Co-Chair: John A. Shelnutt and Yujiang Song

Wolf Room

10:00 to 10:30  **Keynote**

**Charles Michael Drain** (Chemistry & Biochemistry, Hunter College of the City University of New York, New York, USA), Alexander Falber, Matthew Jurow, Ivana Radivojevic, Sunaina Singh, Alessandro Varotto

Self-Organization of Porphyrins and Phthalocyanines on Surfaces in Devices

10:30 to 10:50

**Ursula Mazur** (Chemistry, Washington State University, Pullman, USA), K. W. Hipps

Exploring the Nano and Meso Structures of Ionic Porphyrin and Phthalocyanine Aggregates Using Scanning Probe Microscopy, XPS, and Optical Spectroscopy

10:50 to 11:10

**Ricardo Franco** (REQUIMTE, Departamento de Química, Caparica, Portugal), Krisztina Istvan, John Jacobsen, Craig Medforth, Neil Schore, John Shelnutt, Yujiang Song, Haorong Wang, Zhongchun Wang

Molecular Organization in Self-Assembled Binary Porphyrin Nanotubes Revealed by Resonance Raman Spectroscopy

11:10 to 11:30

**Maria Angela Castriciano** (ISMN-CNR, Messina, Italy), Norberto Micali, Luigi Monsù Scolaro, Andrea Romeo, Valentina Villari

Scaling Chirality in Nanosized Porphyrin J-Aggregates

11:30 to 11:50

**Taku Hasobe** (School of Materials Science, Japan Advanced Institute of Science and Technology (JAIST), Nomi, Japan)

Supramolecular Architectures of Porphyrins for Optoelectronic Application

11:50 to 12:10

**Jianzhuang Jiang** (Department of Chemistry, University of Science and Technology Beijing, Beijing, China), Yongzhong Bian, Yingning Gao, Guifen Lu

Tetrapyrrrole Derivatives: Towards Organic Nano-electronics

12:10 to 12:30

**Roberto Paolesse** (Chemical Science and Technologies, Rome, Italy), Donato Monti

Supramolecular Assemblies of Porphyrin Derivatives for Chemical Sensor Applications

12:30 to 12:50

**Yujiang Song** (Dalian Institute of Chemical Physics, Chinese Academy of Sciences, Dalian, China), Robert M. Garcia, James E. Miller, John A. Shelnutt, Yan Xie, Yongheng Xing, Caishun Zhang

Photo-Enhanced Electrochemical CO₂ Reduction Using Self-Assembled Cobalt(III) Porphyrin Nanofibers

13:00 to 14:30  Lunch
# S10 Functionalization of Tetrapyrroles

Chair/Co-Chair: Mathias O. Senge, Norbert Jux and M. Ravikanth

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:00 to 10:30</td>
<td><strong>Keynote</strong>&lt;br&gt;Christian Brueckner <em>(Department of Chemistry, University of Connecticut, Storrs, USA)</em>&lt;br&gt;Modifications of the Porphyrinic β,β’-Double Bond to Convert a Pyrrolic Building Block into 4-, 5-, or 6-Membered Heterocycles</td>
</tr>
<tr>
<td>10:30 to 10:50</td>
<td>Ken-Ichi Sugiura <em>(Department of Chemistry, Graduate School of Science, Tokyo Metropolitan University, Hachi-Oji, Japan)</em>, Motoko S. Asano, Tomoji Kawai, Hiroyuki Tanaka, Ken-ichi Yamashita, Akita Yasuhiro&lt;br&gt;A Proposal of Contemporary Substitution Motif for Porphine Aiming at the Future Advanced Materials: Introduction of 4-alkoxy-3,5-di-iso-propylphenyl (DIPP) Groups on Porphine</td>
</tr>
<tr>
<td>10:50 to 11:10</td>
<td>José Cavaleiro <em>(Chemistry, University of Aveiro, Aveiro, Portugal)</em>&lt;br&gt;New Synthetic Methodologies Leading to meso-Aryl Substituted Porphyrin Derivatives</td>
</tr>
<tr>
<td>11:10 to 11:30</td>
<td>Maxwell Crossley <em>(School of Chemistry, The University of Sydney, Australia)</em>, Murad Tayebjee, Yuen Cheng, Raphael Clady, N.J. Ekins-Daukes, Tony Khoury, Timothy Schmidt&lt;br&gt;Ring-annulated Porphyrins and their use as Sensitisers in Photochemical Upconversion</td>
</tr>
<tr>
<td>11:30 to 11:50</td>
<td>Naoki Aratani <em>(Department of Chemistry, Graduate School of Science, Kyoto University, Kyoto, Japan)</em>, Atsuhiro Osuka, Hiroshi Shinokubo, Jianxin Song&lt;br&gt;Construction of Various Shaped Multi-porphyrin Arrays via Transition-metal Catalyzed Coupling Reactions</td>
</tr>
<tr>
<td>11:50 to 12:10</td>
<td>Peter Zhang <em>(Department of Chemistry, University of South Florida, Tampa, USA)</em>&lt;br&gt;Porphyrin Functionalization via Palladium-Catalyzed Carbon-Heteroatom Bond Formation: Modular Approach to Construction of Chiral Porphyrins</td>
</tr>
<tr>
<td>12:10 to 12:30</td>
<td>Norbert Jux <em>(Department of Chemistry and Pharmacy &amp; Interdisciplinary Center for Molecular Materials, Friedrich-Alexander-Universität Erlangen-Nürnberg, Erlangen, Germany)</em>, Nina Lang, Jenny Malig&lt;br&gt;Clicking with porphyrins: highly functionalized tetraphenylporphyrins</td>
</tr>
<tr>
<td>12:30 to 12:50</td>
<td>Jean-Michel Barbe <em>(Université de Bourgogne, ICMUB, UMR 5260, Dijon, France)</em>&lt;br&gt;Three Metal Porphyrin Molecular Tweezers</td>
</tr>
<tr>
<td>13:00 to 14:30</td>
<td>Lunch</td>
</tr>
</tbody>
</table>
S11 Photodynamic Protocols for Tumor Diagnosis and Therapy

Chair/Co-Chair: David Kessel and Ravindra Pandey

Hawk Room

10:00 to 10:30  **Keynote**

**Tayyaba Hasan** *(Wellman Center for Photomedicine, Massachusetts General Hospital and Harvard Medical School, Boston, USA)*

Role of Photosensitizer Delivery in Photodynamic Therapy

10:30 to 10:50

**Nancy Oleinick** *(Radiation Oncology, Case Western Reserve University, Cleveland, USA)*, **Song-mao Chiu**, **Liang-yan Xue**

Cell Death vs. Survival Pathways after Photodynamic Therapy

10:50 to 11:10

**Hugo Scheer** *(Dept. Biologie 1, Botanik, Universität München, München, Germany)*, **Jörg Dandler**

Partitioning and Photochemistry of Bacteriochlorophyllous Sensitizers in Human Blood Plasma

11:10 to 11:30

**Ross Boyle** *(Department of Chemistry, University of Hull, Kingston-upon-Hull, United Kingdom)*, **Cristina Alonso**, **Aaron Bullous**, **Dario Neri**, **Alessandro Palumbo**, **Francesca Pretto**

Bioconjugation of photosensitisers with anti-angiogenic monoclonal antibodies – Synthesis and biological evaluation.

11:30 to 11:50

**Xiaoyu Liu** *(Hisunpharm Company, Taizhou, China)*

The comparison of both Chinese-FDA and the US-FDA Requirements for Drug Approval

11:50 to 12:10

**Li Libo** *(Oncology Department, Nanfang Hospital, Southern Medical University, Guangzhou, China)*, **Wangjun Liao**, **Tengfei Liu**, **Yuling Luo**, **Rongcheng Luo**, **Jiangming Xie**, **Lanying Zhang**

Photodynamic Diagnosis and Photodynamic Therapy in China, Where are We Going?

12:10 to 12:30

**Gang Zheng** *(Ontario Cancer Institute/University of Toronto, Toronto, Canada)*

Photodynamic Molecular Beacons

13:00 to 14:30  Lunch
S16 Heme Enzymes and Model Systems
Chair/Co-Chair: John Dawson and Takashi Hayashi
Eagle Room

10:00 to 10:30  **Keynote**
**Stephen Sligar** (Departments of Biochemistry and Chemistry, University of Illinois, Urbana, USA),
Roman Davydov, Ilia Denisov, Brian Hoffman, Jim Kincaid, Abhinav Luthra, Piotr Mak
The Reactive Oxygen Intermediates in Heme Monoxygenases

10:30 to 10:50  **Michael T. Green** (Department of Chemistry, Pennsylvania State University, University Park, USA)
Cytochrome P450: the Active Oxidant and Its Spectrum

10:50 to 11:10  **Koji Kano** (Department of Molecular Chemistry and Biochemistry, Doshisha University, Kyotanabe, Japan),
Shun Hirota, Hiroaki Kitagishi, Takehiro Ohta, Mariko Tamaki, Takunori Ueda
Alkylperoxo- and Hydroperoxo-Ferric Porphyrins in Aqueous Solution

11:10 to 11:30  **Angela Wilks** (Department of Pharmaceutical Sciences, University of Maryland, Baltimore, USA),
Kimberly A. Burkhard, Gudrun S. Lukat-Rodgers, Kenton R. Rodgers, Aaron Smith
Heme capture: How bacterial pathogens acquire and utilize heme

11:30 to 11:50  **Shigetoshi Aono** (Okazaki Institute for Integrative Bioscience, National Institutes of Natural Sciences, Okazaki, Japan)
Trap of the Michaelis Complex of a Novel Heme Enzyme, Aldoxime Dehydroase

11:50 to 12:10  **Maurizio Brunori** (Biochemical Sciences, Sapienza, University of Rome, Rome, Italy)
Heme containing nitrite reductases.

12:10 to 12:30  **Yoshitsugu Shiro** (RIKEN Spring-8 Center, Sayo, Japan), Tomoya Hino, Yushi Matsumoto, Shingo Nagano, Hiroshi Sugimoto, Takehiko Tousha
Nitric Oxide Reductases: Chemistry of N-O Bond Cleavage and N-N Bond Formation

12:30 to 12:50  **John Dawson** (Department of Chemistry and Biochemistry, University of South Carolina, Columbia, USA), Jing Du, Xiao Huang, Lukasz Lebioda, Masanori Sono
A. ornata Dehaloperoxidase: Mechanistic Studies with Active Site Mutants and of the Link Between the Oxyferrous and Enzymatically-Active Ferric Protein

13:00 to 14:30  Lunch
TUESDAY

S28 Electron Transfer and Applications
Chair/Co-Chair: Francis D'Souza, Dirk Guldi and Shunichi Fukuzumi

10:00 to 10:30 Keynote
Thomas Moore (Center for Bioenergy and Photosynthesis, Department of Chemistry and Biochemistry, Tempe, USA), Devens Gust, Ana Moore
Combining Technology with Biology for Efficient Energy Production and Use

10:30 to 10:50 Anthony Harriman (School of Chemistry, Newcastle upon Tyne, United Kingdom)
Electronic energy transfer in multi-component molecular arrays built around sub-phthalocyanines

10:50 to 11:10 Wonwoo Nam (Department of Bioinspired Science, Ewha Woman's University, Seoul, Korea)
High-Valent Iron- and Manganese-Oxo Porphyrins in Oxygenation Reactions

11:10 to 11:30 Nikolai Tkachenko (Department of Chemistry and Bioengineering, Tampere University of Technology, Tampere, Finland), Helge Lemmetyinen
Photoinduced Electron Transfer in Porphyrin-Fullerene and Phthalocyaninr-Fullerene Dyads in Solutions and Organized Molecular Films

11:30 to 11:50 Takahiko Kojima (Department of Chemistry, University of Tsukuba, Tsukuba, Ibaraki, Japan), Shunichi Fukuzumi, Kakeru Hanabusa, Tatsuhiyo Honda, Tatsuaki Nakanishi, Kei Ohkubo, Motoo Shiro
Light-Harvesting Assemblies Performing Photoinduced Electron Transfer Based on Saddle-Distorted Porphyrins

11:50 to 12:10 Haruo Inoue (Department of Applied Chemistry, Graduate School of Urban Environmental Sciences, Tokyo Metropolitan University, Tokyo, Japan)
Electron Transfer from the Porphyrin S2 State in a Zinc Porphyrin-Rhenium Bipyridyl Dyad having Carbon Dioxide Reduction Activity

12:10 to 12:30 Giovanni Bottari (Departamento de Química Orgánica, Modulo 01, Madrid, Spain), Dirk M. Guldi, Juan Antonio Suanzes Pita, Tomas Torres, Olga Trukhina
Supramolecular-driven synthesis and photophysical properties of a novel phthalocyanine-C60 fullerene bisadduct triad

12:30 to 12:50 Fernando Fernández-Lázaro (Instituto de Bioingeniería, Universidad Miguel Hernández, Elche, Spain), Javier Céspedes-Guirao, Shunichi Fukuzumi, Luis Martín-Gomis, Kei Ohkubo, Ángela Sastre-Santos
Synthesis and Photophysics of (Supra)molecular Phthalocyanine-based Systems

13:00 to 14:30 Lunch
Wednesday 7 July, 2010 - Morning

Lifetime Achievement Award Lectures

Introduction by Jonathan L. Sessler

Tamaya Ballroom

Chair: James Kincaid

8:30 to 09:30

Thomas Spiro (Chemistry Dept., University of Washington, Seattle, USA)
Adventures in Porphyrin Raman Spectroscopy

9:30 to 10:00   Coffee Break

Chair: David Kessel

10:00 to 11:00

Ravindra Pandey (PDT Center, Roswell Park Cancer Institute, Buffalo, USA)
Clinical Applications of Multimodality Agents Derived from Chlorophyll-a and
Bacteriochlorophyll-a

Chair: James P. Collman

11:00 to 12:00

Roger Guilard (Université de Bourgogne, UFR Sciences et Techniques, ICMUB - UMR CNRS 5260, Dijon, France)
Some Contributions on Bio-Inspired Systems

12:00 to 13:30 Lunch
Wednesday 7 July, 2010 - Afternoon

S32 Materials
Chair/Co-Chair: Norbert Jux and Hubert Girault
Badger Room

13:30 to 13:50
Thomas A. Jung (Laboratory for Micro- and Nanotechnology, Villigen PSI, Switzerland), Meike Stoehr, Nirmalya Ballav, Silvio Decurtins, Francois Diederich, Lutz Gade
Surface Supported Supra-Molecular Architectures containing functional Porphyrins and Phthalocyanines

13:50 to 14:00
Andrea Romeo (University of Messina, Messina, Italy), Maria Angela Castriciano, Maria Grazia Donato, Norberto Micali, Luigi Monsù Scolaro
Surfactant-like behavior of short-chain alcohols in porphyrin aggregation

14:00 to 14:10
Woo-Dong Jang (Department of Chemistry, Yonsei University, Seoul, Korea), Jungmi Heo, Dongyong Kim, Chi-Hwa Lee
Hydrogen-bonding-mediated Supramolecular Assembly of Porphyrin Derivatives

14:10 to 14:20
Giovanna De Luca (Institute of Composite and Biomedical Materials, CNR, Portici (NA), Italy), Luigi Monsù Scolaro, Lilla Schirò, Letteria Silipigni
Porphyrins Nanohybrids through Ionic Self Assembly

14:20 to 14:30
Jonathan Hill (Supermolecules GroupWPI-Center for Materials Nanoarchitectonics, National Institute for Materials Science, Tsukuba, Japan), Misaho Akada, Katsuhiko Ariga, Yongshu Xie
Self-assembled Trigeminal Porphyrin Amphiphile Nanowires on a Mica Substrate

14:30 to 14:40
João P. C. Tomé (Department of Chemistry, University of Aveiro, Aveiro, Portugal), Maria A. Almeida, Eliana Alves, Carla M. B. Carvalho, José A. S. Cavaleiro, Liliana Costa, Maria A. Cunha, Maria A. F. Faustino, Zhi Lin, Maria G. P. M. S. Neves, João Rocha, Augusto C. Tomé
Nanomagnet-Porphyrin Hybrids for Microorganisms Photoinactivation

14:40 to 14:50
Maria da Graça P. M. S. Neves (Departamento de Química, Aveiro, Portugal), Cristina M. A. Alonso, José A. S. Cavaleiro, Maria A. F. Faustino, M. Victoria Martínez-Díaz, Ana M. V. M Pereira, Ana R. M. Soares, João P. C. Tomé, Augusto C. Tomé, Tomás Torres
Synthetic Routes to Porphyrin-Phthalocyanine Dyads

14:50 to 15:00
Pradeepa Panda (School of Chemistry, University of Hyderabad, Hyderabad, India), Tridib Sarma
Dinaphthoporphycenes

15:00 to 15:10
Lijuan Jiao (College of Chemistry and Material Science, AnHui Normal University, WuHu, China), Kebing Cong, Erhong Hao, Changjiang Yu
Synthesis and Application of BODIPY Dyes

15:10 to 15:30 Coffee Break
S33 Synthesis and Properties
Chair/Co-Chair: Roberto Paolesse and Vefa Ahsen

Bear Room

13:30 to 13:40
Sara Nardis (Department of Chemical Science and Technology, Rome, Italy), Frank R. Fronczek, Federica Mandoj, Marco Mastroianni, Roberto Paolesse, Kevin M. Smith, Manuela Stefanelli
3-Nitrocorroles: a Starting Platform for the Preparation of Functionalized Corroles

13:40 to 13:50
Giuseppe Pomarico (University of Rome “Tor Vergata”, Department of Chemical Science and Technology, Rome, Italy), Roberto Paolesse, Maria Graça H. Vicente
Different Routes to Triaryl-Tetabenzocorroles

13:50 to 14:00
Christophe Bucher (Université Joseph Fourier, Département de Chimie Moléculaire, Laboratoire de Chimie Inorganique Rédox, Grenoble, France), Mihai Buda, Adriana Iordache, Patricia Melfi, Jean-Claude Moutet
Electrochemically Driven Synthetic Strategies Towards Expanded Porphyrins

14:00 to 14:10
Lianqing Chen (College of Chemistry and Material Science, South-Central University for Nationalities, Wuhan, China), Guidi Chen, Kejian Deng, Jie Sun, Bingguang Zhang
Synthesis under Microwave Irradiation and Characterization of Sulfur Metalloporphyrazine and Its Derivatives

14:10 to 14:20
Andrey Khoroshutin (Chemistry Department, M.V. Lomonosov Moscow State University, Moscow, Russia), Alexander Anisimov, Denis Chumakov, Anna Moiseeva, Boris Uzhinov
Selective benzo-bromination of PdPh4TBP – a new way to construct phosphorescent tetrabenzoporphyrazines with tunable properties

14:20 to 14:30
S. P. Rath (Department of Chemistry, Indian Institute of Technology Kanpur, Kanpur, India)
Modulation of Iron Displacements and Axial Ligand Orientations in a Nonplanar Porphyrinic Environment

14:30 to 14:40
Akira Ikezaki (Department of Chemistry, Toho University, School of Medicine, Tokyo, Japan), Mikio Nakamura
Novel electronic states of one-electron oxidized products of iron(III) porphyrin complexes

14:40 to 14:50
Andrew Hudson (Department of Chemistry, Leicester, United Kingdom)
Jet-cooled spectroscopy of porphyrins

15:00 to 15:30 Coffee Break
S34 Biochemistry of Heme Proteins

Chair/Co-Chair: Roman Czernuszewicz and Giulietta Smulevich

13:30 to 13:50

Martin Stillman (Department of Chemistry, The University of Western Ontario, London, Canada),
David Heinrichs, Michael Tiedemann
The multi-protein heme shuttle pathway in Staphylococcus aureus

13:50 to 14:00

Kenneth Karlin (Chemistry, Baltimore, USA), Mark Schopfer, Jun Wang
Bioinorganic Aspects of Heme and Heme-Copper Nitrogen Monoxide, Nitrite and Dioxygen Chemistry

14:00 to 14:10

David B. Goodin (Dept. of Molecular Biology, The Scripps Research Institute, La Jolla, USA),
Young-Tae Lee, Igor Rupniewski, Richard F. Wilson
P450cam Visits an Open Conformation in the Absence of Substrate

14:10 to 14:20

Seiji Mori (Ibaraki University, Mito, Japan), Ryo Watanabe, Tetsuya Yanai
Computational Studies on Unusual Mechanisms of Reactions of Prostaglandin H₂ Catalyzed by Cytochrome P450

14:20 to 14:30

Andrzej Weichsel (Department of Chemistry and Biochemistry, University of Arizona, Tucson, USA),
William R. Montfort, F. Ann Walker
Role of Steric Interactions between Heme and Axial Ligands in Ligand Specificity: Conclusions Drawn from Structures of Nitrophorins

14:30 to 14:40

Gloria C. Ferreira (Department of Molecular Medicine, University of South Florida, Tampa, USA),
Ricardo Franco, Neil McIntyre, John A. Shelnutt
Porphyrin Interaction and Metalation by Nickel(II) Chelatases Directly Evolved from Ferrochelatase

14:40 to 14:50

Saburo Neya (Graduate School of Pharmaceutical Sciences, Chiba University, Chiba City, Japan),
Tyuji Hoshino, Masaaki Suzuki
Molecular Insight of Heme Deformation to the Ligand Binding to Hemoprotein

14:50 to 15:00

Yoshiki Ohgo (Department of Chemistry, Faculty of Medicine, Toho University, Tokyo, Japan),
Daisuke Hashizume, Shinya Hayami, Hatsumi Mori, Mikio Nakamura, Saburo Neya, Kazuyuki Takahashi
Response of the \(d_{π}−p_{π}\) Interaction to the Environmental Stimuli in Iron(III) Heme

15:00 to 15:10

Periakaruppan T. Manoharan (SAIF/Department of Chemistry, Chennai, India), Joseph M. Rifkind, Maria T Salgado
The Formation of a Paramagnetic NO Intermediate during the Reduction of Nitrite by Deoxyhemoglobin

15:10 to 15:30 Coffee Break
Program

S35 Physicochemical Properties/Theory/Applications

Chair/Co-Chair: Dirk M. Guldi and Julio S. Reboucas

Wolf Room

13:30 to 13:40
Petr Zimcik (Department of Pharmaceutical Chemistry and Drug Control, Faculty of Pharmacy in Hradec Kralove, Charles University in Prague, Hradec Kralove, Czech Republic), Kamil Kopecky, Miroslav Miletin, Veronika Novakova
Alkylamino Azaphthalocyanines as Dark Quenchers of Fluorescence in DNA Hybridization Assays

13:40 to 13:50
Daryono Hadi Tjahjono (School of Pharmacy, Bandung Institute of Technology, Bandung, Indonesia), Yosunobu Higuchi, Hidenari Inoue, Firman Jiang, Benny Permana, Hidetoshi Taima, Naoki Yoshioka
DNA-Binding Properties of 5-Diazoliumyl-15-pyrazoliumylporphyrin and Its Cu(II)- and Zn(II)-complexes

13:50 to 14:00
Martina Vermathen (Department of Chemistry & Biochemistry, University of Berne, Berne, Switzerland), Peter Bigler, Mattia Marzorati
Aggregation properties of porphyrinic photosensitizers and their effect on membrane interactions

14:00 to 14:10
Masahiko Hada (Tokyo Metropolitan University, Tokyo, Japan), Daisuke Yamaki
Paramagnetic 13C NMR Chemical Shifts of Iron-Bound Cyanide Ions in Heme Protein Environments

14:10 to 14:20
Ramasamy Pandian (Center for Biomedical EPR Spectroscopy & Imaging, Davis Heart and Lung Research Institute (DHLRI), The Ohio State University, Columbus, USA), Periannan Kuppusamy
Synthesis and spectroscopic studies of lithium naphthalocyanine-based crystalline spin probes for biological oximetry

14:20 to 14:30
Zheng Huang (EE/University of Colorado Denver, Denver, USA)
The regulatory status of PDT photosensitizers in China

14:30 to 14:40
Pui-Chi Lo (Chemistry, The Chinese University of Hong Kong, Hong Kong, China), Wing-Ping Fong, Xiong-Jie Jiang, Dennis K. P. Ng, Sin-Lui Yeung
Polyamine-Phthalocyanine Conjugates as Highly Efficient Photosensitizers for Photodynamic Therapy

14:40 to 14:50
Muhammad Sayyad (Faculty of Engineering Sciences, Ghulam Ishaq Khan Institute of Engineering Sciences and Technology, Topi, NWFP, Pakistan), Zubair Ahmad, Mukhtar Ali, Fakhra Aziz, Attilio Caffiola, Anwar-Ul- Haq, Khasan Karimov, Shahid Khan, Muhammad Saleem, Mutabar Shah, M. Maroof Tahir, Muhammad Yaseen
Investigation of Porphyrins and Phthalocyanines for their Potential Applications in Organic Electronics

14:50 to 15:00
Kejian Deng (College of chemistry and Materials, South-Central Univeristy for Nationalities, Wuhan City, China)
Synthesis and photocatalytic property of novel unsymmetrical metal-free and metallo 1,4-dithiin-porphyrane

15:00 to 15:30  Coffee Break
Young Investigator Award Lectures

Introduction by David Goldberg

Tamaya Ballroom

Chair: Maxwell J. Crossley

15:30 to 16:00

Pall Thordarson *(School of Chemistry, The University of New South Wales, Sydney, Australia)*

Biomimetic Porphyrin Chemistry: From DNA-enzyme mimics to photosynthesis of biological cofactors

Chair/Co-Chair: David Goldberg

16:00 to 16:30

Mahdi Abu-Omar *(Chemistry Department, Purdue University, West Lafayette, USA)*

High-Valent Porphyrin and Corrole Complexes for Atom Transfer and Dioxygen-Evolving Catalysis

Chair/Co-Chair: Nagao Kobayashi

16:30 to 17:00

Zhen Shen *(Department of Chemistry, Nanjing University, Nanjing, China)*, Di Wu, Zhao-Li Xue

Structure Modification and Spectroscopic Properties of Porphyrins

19:00 to 22:00

Conference Banquet: onsite “EL PINTO” (by presentation of ticket only)

Bus transportation will be provided. Departure time from Tamaya 18:35
Thursday 8 July, 2010 - Morning

Plenary/Award Lecture
Chair: Maxwell J. Crossley
Tamaya Ballroom

8:30 to 9:30
Jonathan Lindsey (Department of Chemistry, North Carolina State University, Raleigh, USA)
Recent Advances in the Synthetic Chemistry of Tetrapyroles

9:30 to 10:00 Coffee Break
S2 Multichromophore Arrays and Complex Assemblies: Defined Oligomers

Chair/Co-Chair: Mike Cook and Andy Cammidge

Wolf Room

10:00 to 10:30  Keynote
  Dennis Ng (Chemistry, The Chinese University of Hong Kong, Hong Kong, China), Venus Y. Huang, Xuebing Leng, Jian-Yong Liu
  Studies of Phthalocyanine-Containing Multichromophoric Arrays

10:30 to 10:50
  M. Salome Rodriguez-Morgade (Departamento de Quimica Organica, Universidad Autonoma de Madrid, Madrid, Spain), Esmeralda Caballero, Javier Fernandez-Ariza, Angel J. Jimenez, Tomas Torres
  Phthalocyanine-based multichromophore assemblies for photovoltaic applications

10:50 to 11:10
  Rüdiger Faust (Institute for Chemistry and CINaT - Center for Interdisciplinary Nanostructure Science and Technology, Kassel, Germany), Christian Burmester, Jan Fleischhauer, Fabian Körte, Sara Rossi, Andreas Winzenburg
  Porphyrazines with extended π-systems as flexible core structures for multi-chromophore assemblies

11:10 to 11:30
  Jannie C. Swarts (Department of Chemistry, University of the Free State, Bloemfontein, South Africa), Ernst H. G. Langner
  Syntheses and Characterisation of Water-Soluble Polymer-Bound Lipophylic Phthalocyanines and Porphyrins

11:30 to 11:50
  Federica Mandoj (Department of Chemistry, University of Tor Vergata, Rome, Italy), Frank R. Fronczek, Sara Nardis, Roberto Paolesse, Kevin M. Smith
  Synthesis of Multichromophoric Systems Based on Different β-Fused Porphyrinoids

11:50 to 12:10
  Victor Nemykin (Department of Chemistry & Biochemistry, University of Minnesota Duluth, Duluth, USA)
  “On” and “Off” Switchable Multichromophoric Porphyrins Tetraazaporphyrins, and Subphthalocyanines with Organometallic Substituents

12:10 to 12:30
  John Shelnutt (Advanced Materials Laboratory, Sandia National Laboratories, Albuquerque, USA)
  Self-Assembled Donor-Acceptor Porphyrin Biomorphs

13:00 to 14:30  Lunch
S6 Porphyrins and Modified Porphyrins

Chair/Co-Chair: Changhee Lee, Yoshihiro Matano, Leszek Latos-Grazynski  Badger Room

10:00 to 10:30  Keynote
  Tavarekere. K. Chandrashekar (School of Chemical Sciences, National Institute of Science Education and Research (NISER), Bhubaneswar, India)
  Expanded Porphyrins: Syntheses and Applications as Third Order Nonlinear Optical Materials

10:30 to 10:50  Yoshihiro Matano (Department of Molecular Engineering, Graduate School of Engineering, Kyoto University, Kyoto, Japan), Takashi Nakabuchi , Hiroshi Imahori
  Synthesis and Aromaticity of Metal Complexes of Phosphorus-Containing Core-Modified Porphyrins

10:50 to 11:10  Ravikanth Mangalampalli (Department of Chemistry, Indian Institute of Technology, Mumbai, India)
  Design, synthesis and studies of core-modified porphyrin based covalent and non-covalent assemblies

11:10 to 11:30  Daniel T. Gryko (Institute of Organic Chemistry, Polish Academy of Sciences, Warsaw, Poland), Dorota Gryko, Agnieszka Nowak-Krol, Jan Lewtak, Beata Koszarna
  Synthesis of π-expanded corroles and porphyrins

11:30 to 11:50  Hidemitsu Uno (Department of Chemistry and Biology, Graduate School of Science and Engineering, Ehime University, Matsuyama, Japan)
  Synthesis of Porphyrinoids with Novel π-System from BCOD-connected Dipyrrole

11:50 to 12:10  Hiroko Yamada (Ehime University, Graduate School of Science and Engineering, Matsuyama, Japan)
  Synthesis and Properties of Benzoporphycenes

12:10 to 12:30  Thomas Vaid (Department of Chemistry, University of Alabama, Tuscaloosa, USA), Julie Cissell, Arnold Rheingold, Glenn Yap
  Oxidized and Reduced Main-Group Porphyrin and Phthalocyanine Complexes: Aromaticity and Antiaromaticity

12:30 to 12:50  Chang-Hee Lee (Department of Chemistry, Kangwon National University, Chun Cheon, Korea), Ka-Young Eom, Seung-Do Jeong, Yu-Rim Lee, Hye-Young Lee, Ja-Young Park
  meso-Alkylidenyl Porphyrins and Their Expanded Analogues: Synthesis and Chemistry

13:00 to 14:30  Lunch
S12 Strategies for Optimizing Porphyrin- and Phthalocyanine-Based PDT and BNCT

Chair/Co-Chair: Ross W. Boyle and Graca H. Vicente

Hawk Room

10:00 to 10:30  Keynote

**Giulio Jori** *(Department of Biology, University of Padova, Padova, Italy)*, Clara Fabris, Erhong Hao, Hairong Li, Marina Soncin, M. Graça Vicente

Novel 10B-enriched porphyrin derivatives as radio- and photo-sensitising agents for BNCT and PDT of tumours

10:30 to 10:50

**Benjamin Ehrenberg** *(Physics, Bar Ilan University, Ramat Gan, Israel)*, Shany Ytzhak

Photosensitization with Tetrapyrroles Within the Confined Medium of a Biological Membrane

10:50 to 11:10

**Alexandert MacRobert** *(National Medical Laser Centre, University College London, London, United Kingdom)*

Development of nanocarriers for PDT

11:10 to 11:30

**Johan van Lier** *(Department of Nuclear Medicine and Radiobiology, Faculty of Medicine and Health Sciences, Université de Sherbrooke, Sherbrooke, QC, Canada)*, Hasrat Ali, Nicole Cauchon, Haroutioun Hasséssian

Structure-Activity Relationships of Mono-substituted Trisulfonated Porphyrazines for Photodynamic Therapy

11:30 to 11:50

**Mathias Senge** *(Trinity College Dublin, Dublin, Ireland)*

Synthetic Strategies for Medicinally Relevant Unsymmetrically Substituted Porphyrins

11:50 to 12:10

**Michael Hamblin** *(Wellman Center for Photomedicine, Massachusetts General Hospital, Boston, USA)*, Dewey Holten, Thiagarajan Balasubramanian, David Bocian, Ying-Ying Huang, Liyi Huang, Jonathan Lindsey, Pawel Mroz, Timur Zhiyentayev

Photodynamic Therapy with Stable Synthetic Bacteriochlorins

12:10 to 12:30

**Antonino Mazzaglia** *(ISMN-CNR Palermo, Dipartimento di Chimica Inorganica, Chimica Fisica e Chimica Analitica, Università di Messina, Messina, Italy)*

Design of Amphiphilic Cyclodextrin /Photosensitiser /Gold Nanoassemblies: Spectroscopy, Intracellular Delivery and Photodamage

12:30 to 12:50

**Fabienne Dumoulin** *(Gebze Institute of Technology, Department of Chemistry, Gebze Kocaeli, Turkey)*, Vefa Ahsen, Yuri Antonenko, Ross W. Boyle, Mahmut Durmus, Elena Kotova, Dominique Lafont, Huguette Savoie, Yunus Zorlu

Solketal and glycerol substituted phthalocyanines. Towards new agents for PDT and other biomedical applications

13:00 to 14:30  Lunch
S18 Spectroscopic Probes of Electronic Structure for Heme Proteins and Porphyrinoids

Chair/Co-Chair: Roman S. Czernuszewicz and Martin Stillman

Eagle Room

10:00 to 10:30  Keynote
Mikio Nakamura (Department of Chemistry, Toho University, Tokyo, Japan), Akira Ikezaki, Masashi Takahashi, Yoshiki Ohgo
Observation of an Extremely Labile Spin State in Mono(Imidazole) and Related Complexes of Iron(III) Porphyrinates

10:30 to 10:50
Paola Turano (CERM University of Florence, Sesto Fiorentino (Florence), Italy)
New NMR Techniques for the Determination of the Electronic Structure of Heme Proteins

10:50 to 11:10
W. Robert Scheidt (Chemistry, Notre Dame, USA), Wolfgang Sturhahn, E. Ercan Alp, Alexander Barabanschikov, Allen Oliver, Jeffrey W. Pavlik, J. Timothy Sage, Jiyong Zhao
Anisotropy in Vibrational Spectroscopy: Nuclear Resonance Vibrational Spectroscopy Results

11:10 to 11:30
Reinhard Schweitzer-Stenner (Department of Chemistry, Drexel University, Philadelphia, USA), Maria Alessi, Andrew Hagarman, Jonathan B. Soffer
Exploring the electronic and vibronic perturbations of porphyrins in heme proteins by combining absorption, circular dichroism and resonance Raman spectroscopy.

11:30 to 11:50
Giulietta Smulevich (Dipartimento di Chimica, Università di Firenze, Sesto Fiorentino (FI), Italy), Leonardo Boechi, Alberto Boffi, Enrica Droghetti, Alessandro Feis, Barry D. Howes, Francesco P. Nicoletti, Cinzia Verde
The heme cavity structure of truncated bacterial hemoglobins as envisaged by resonance Raman spectroscopy

11:50 to 12:10
James Kincaid (Chemistry, Marquette University, Milwaukee, USA), Piotr J. Mak, Stephen G. Sligar, Ilia G. Denisov, Paul F. Hollenberg, Haoming Zhang
Resonance Raman studies of mammalian cytochromes P450

12:10 to 12:30
Anabella Ivancich (CNRS & CEA-Saclay, Laboratoire des Hyperfréquences, Metalloproteines, et Systemes de Spin, Gif sur Yvette, France)
Multifrequency (High-Field) EPR spectroscopy as a selective tool to identify and characterize the reactivity of Fe(IV)=O Trp• intermediates in heme peroxidases

12:30 to 12:50
Halina Abramczyk (Chemistry Department, Technical University of Lodz, Lodz, Poland), Beata Brozek-Pluska, Wojciech Czajkowski, Arkadiusz Jarota
Femtosecond Transient Absorption, Raman Studies of Tetrasulfonated Phthalocyanines in Water and DMSO Solutions

13:00 to 14:30  Lunch
S27 Lanthanide Tetrapyrrolic Compounds: Chemistry and Applications

Chair/Co-Chair: Yuliya Gorbunova and Jianzhuang Jiang

Bear Room

10:00 to 10:30  Keynote

Larisa Tomilova (Chemical Department, MSU, Moscow, Russia), Tatiana Dubinina, Victor Pushkarev, Alexander Tolbin
Lanthanide(III) Phthalocyanine and Naphthalocyanine Compounds: Synthesis and Properties

10:30 to 10:50

Yongzhong Bian (Department of Chemistry, University of Science and Technology Beijing, Beijing, China), Jianzhuang Jiang, Nagao Kobayashi, Yang Zhou
Sandwich-Type Porphyrinato and Phthalocyaninato Rare Earth Complexes with C4-Chirality

10:50 to 11:10

Aslan Tsivadze (A.N. Frumkin Institute of Physical Chemistry and Electrochemistry of Russian Academy of Sciences, Moscow, Russia), Yulia Gorbunova
Advance in the coordination chemistry, structure and properties of crown-phthalocyaninates of lanthanides

11:10 to 11:30

Maria Luz Rodriguez-Mendez (Department of Inorganic Chemistry, University of Valladolid, Valladolid, Spain), Priscilla Alessio, Constantin Apetrei, Jose Carlos Constantino, Jose Antonio de Saja, Oswaldo N. Jr. Oliveira, Felipe Pavinatto, Edson Ramos Fernandes, Valtenzir Zucolotto
Development of nanostructured Langmuir-Blodgett films containing tyrosinase and lutetium bisphthalocyanine. Application as biosensors

11:30 to 11:50

Kentaro Tashiro (National Institute for Materials Science, Tsukuba, Japan)
Supramolecular Chemistry of Metal Bisporphyrinate Double-Decker Complexes with Fullerenes

11:50 to 12:10

Xingzhong Yan (Electrical Engineering and Computer Science, South Dakota State University, Brookings, USA)
Phthalocyanines for Solar Energy Technologies

12:10 to 12:30

Nagao Kobayashi (Department of Chemistry, Graduate School of Science, Tohoku University, Sendai, Japan), Yoshiaki Asano, Akira Fukasawa, Terutaka Hatano, Atsuya Muranaka, Masanobu Uchiyama
anti-Phthalocyaninophane and Some Cofacial Phthalocyanine Dimers

13:00 to 14:30  Lunch
Friday 9 July, 2010 - Morning

Plenary/Award Lecture

Chair: Tomas Torres  
Tamaya Ballroom

8:30 to 9:30

Michael J. Cook (School of Chemistry, University of East Anglia, Norwich, United Kingdom)
Unmasking the Chemistry and Properties of Non-peripherally Octa-substituted Phthalocyanines

9:30 to 10:00 Coffee Break
S5 Porphyrin Based Supramolecular Systems in Chemistry and Biology

Chair/Co-Chair: Koji Kano and Luigi Monsu Scolaro

Wolf Room

10:00 to 10:30  Keynote
   David B. Amabilino (Institut de Ciencia de Materials de Barcelona, CSIC, Cerdanyola del Valles, Spain)
   Low dimensional supramolecular and macromolecular porphyrin systems on and off surfaces

10:30 to 10:50
   Takashi Hayashi (Department of Applied Chemistry, Graduate School of Engineering, Osaka University, Suita, Japan), Yasuaki Kakikura, Akira Onoda, Koji Oohora, Akinori Takahashi, Yuichi Ueya
   Preparation and Characterization of Supramolecular Hemoprotein Polymers Through Heme–Heme Pocket Interaction

10:50 to 11:10
   Luigi Monsù Scolaro (Dipartimento di Chimica Inorganica, Chimica Analitica e Chimica Fisica, Messina, Italy)
   From Nano to Microsized Porphyrin Assemblies

11:10 to 11:30
   Jonathan L. Sessler (Dept. of Chem. & Biochem., The Univ. of Texas, Austin, USA)
   Oligopyrrole Macrocycles: Receptors, Containers, and Ensembles

11:30 to 11:50
   Teodor Silviu Balaban (Université Paul-Cézanne Aix-Marseille III, ISM2 - Chirosciences, Marseille, France)
   Self-assembling Porphyrins which Mimic the Chlorosomal Bacteriochlorophylls c, d, and e

11:50 to 12:10
   Wonyoung Choe (Department of Chemistry, University of Nebraska-Lincoln, Lincoln, USA)
   Building Porous Solids with Porphyrins: Strategic Routes for New Materials

12:30 to 14:30  Lunch
S7 \( \pi \)-Expanded Porphyrinoids and Corroles: Synthesis and Coordination Chemistry

Chair/Co-Chair: Daniel Gryko and Christopher Ziegler

Badger Room

10:00 to 10:30 Keynote
Atsuhiro Osuka (Department of Chemistry, Graduate School of Science, Kyoto University, Kyoto, Japan), Tomohiro Higashino, Mitsunori Inoue, Shohei Saito, Yasuo Tanaka, Sumito Tokuji
Chemistry of Möbius Aromatic Expanded Porphyrins

10:30 to 10:50
Hiroyuki Furuta (Department of Chemistry and Biochemistry, Kyushu University, Fukuoka, Japan)
Confusion Approach to Contracted Porphyrin: New Corrole Isomers with an Interior Carbon Atom

10:50 to 11:10
Penelope Brothers (Department of Chemistry, The University of Auckland, Auckland, New Zealand), Amelia M. Albrett, Peter D. W. Boyd, Jeanet Conradie, Abhik Ghosh, Anna Mlodzianowska
Advances in the Chemistry of Boron Coordinated to Corrole Macrocycles

11:10 to 11:30
Lechoslaw Latos-Grazynski (Department of Chemistry, University of Wroclaw, Wroclaw, Poland)
Transformation of Porphyrinoids Triggered by Insertion of Boron(III), Silicon(IV) or Phosphorous(V)

11:30 to 11:50
G. Richard Geier (Colgate University, Hamilton, USA)
Investigation of Complementary Reaction Routes to Syntheses of Porphyrinoids with Altered Core Structures

11:50 to 12:10
Chen-Hsiung Hung (Institute of Chemistry, Nankang, Taipei, Taiwan)
The Chemistry of Nitrogen Oxide Species on N-Confused Porphyrin Complexes

12:10 to 12:30
Timothy Lash (Department of Chemistry, Illinois State University, Normal, USA)
Origin of Aromatic Character in Porphyrinoid Systems

12:40 to 14:30 Lunch
**S19 Natural Porphyrinoid Pigments: Structure, Function and Synthesis**

**Chair/Co-Chair: Bernhard Kräutler and Franz-Peter Montforts**

**Eagle Room**

10:00 to 10:30  **Keynote**

**Franz-Peter Montforts (University of Bremen, Dept. of Organic Chemistry, Bremen, Germany)**

Synthetic Studies Directed to Enantiomerically Pure Chlorins and Isobacteriochlorins

10:30 to 10:50  **Petra Fromme (Department of Chemistry and Biochemistry, Arizona State University, Tempe, USA)**

Porphyrins in Photosynthesis; Structure and Function of Photosynthetic Membrane proteins

10:50 to 11:10  **Hitoshi Tamiaki (Department of Bioscience and Biotechnology, Ritsumeikan University, Kusatsu, Japan)**

Yuki Kimura, Tadashi Mizoguchi

Stereochemistry of Natural Chlorophylls-c From Diatoms and Brown Algae

11:10 to 11:30  **Wolfgang Gaertner (Max-Planck-Institute for Bioinorganic Chemistry, Muelheim, Germany), Christian Bongards, Alfred R. Holzwarth, Jon Hughes, Joerg Matysik, Marc Mueller, Thierry Rohmer**

Conformational changes of the phytochrome chromophore – combining time-resolved absorption spectroscopy and solid state NMR technique

11:30 to 11:50  **Katsuhiko Inomata (Kanazawa University, Kanazawa, Japan)**

Synthetic Approach to the Structure and Function of Phytochrome Chromophores

11:50 to 12:10  **Felix Zelder (Institute of Inorganic Chemistry University of Zürich, Zürich, Switzerland)**

Roger Alberto, Christian Buchwalder, Rene M. Oetterli, Kai Zhou

Synthesis of Vitamin B12-hybrid Derivatives

12:10 to 12:30  **Yoshio Hisaeda (Department of Chemistry and Biochemistry, Graduate School of Engineering, Kyushu University, Fukuoka, Japan)**

Vitamin B12-derivatives as Functional Catalysts

12:30 to 14:30  **Lunch**
S22 Heme-Based Gas-Sensor Proteins

Chair/Co-Chair: Toru Shimizu and Paul Ortiz de Montellano

Bear Room

10:00 to 10:30  Keynote

**Michael Marletta** *(Department of Chemistry, University of California, Berkeley, Berkeley, CA, USA)*, Hans Carlson, W. Kaya Erbil, Shirley Huang, John Kuriyan, Charles Olea, Mark Price, David Wemmer

Ligand Discrimination in the H-NOX Family: A Key to Function

10:30 to 10:50

**Eve de Rosny** *(Institut de Biologie Structurale, Grenoble, France)*, Arjan de Groot, Juan Carlos Fontecilla-Camps, Hélène Jouve, Céline Jullian-Binard, Laurent Le Pape

Characterization of heme binding to the Drosophila melanogaster nuclear receptors DHR51 and E75.

10:50 to 11:10

**Patrick Farmer** *(Chemistry & Biochemistry, Baylor University, Waco, USA)*, Murugasen Ravi Kumar

HNO Trapping by Ferrous Heme Proteins

11:10 to 11:30

**Toru Shimizu** *(Institute of Multidisciplinary Research for Advanced Materials, Tohoku University, Sendai, Japan)*, Kenichi Kitanishi, Atsunari Tanaka

Heme-based Oxygen Sensor Enzymes, YddV and Ec DOS, Function in the Synthesis and Degradation of Cyclic-dinucleotide GMP, an Important Second Messenger for Bacteria

11:30 to 11:50

**Mark Gomelsky** *(Department of Molecular Biology, University of Wyoming, Laramie, USA)*, Marie-Alda Gilles-Gonzalez, Oleg V. Moskvin

SCHIC Domain Oxygen Sensors: Origin, Mechanism, Impact

11:50 to 12:10

**Teizo Kitagawa** *(Toyota Physical and Chemical Research Institute, Aichi-gun, Japan)*, Samir El-Mashtoly, Satoru Nakajima, Toru Shimizu, Hiroto Takahashi, Atsunari Tanaka

Structural Chemistry of Information Communication in Oxygen Sensor Protein, EcDOS, Revealed with Resonance Raman Spectroscopy

12:10 to 12:30

**Paul R. Ortiz de Montellano** *(Department of Pharmaceutical Chemistry, University of California, San Francisco, USA)*, Alexandra Ioanoviciu, Pierre Moenne-Loccoz, Larissa M. Podust, Sathoshi Sivaramakrishnan, Erik T. Yukl

The Oxygen Sensors DevS and DosT of Mycobacterium tuberculosis

12:30 to 14:30  Lunch
S30 Metalloporphyrin-Catalyzed Selective Organic Synthesis

Chair/Co-Chair: Peter Zhang and Eric Rose

Hawk Room

10:00 to 10:30  **Keynote**

Chi-Ming Che (*Department of Chemistry, The University of Hong Kong, Hong Kong SAR, China*)
Selective Functionalization of Alkanes Catalyzed by Metalloporphyrin Complexes

10:30 to 10:50

Emma Gallo (*Dipartimento CIMA “L. Malatesta” - Università degli Studi di Milano, Milan, Italy*), Nicola Casati, Alessandro Caselli, Sergio Cenini, Simone Fantauzzi, Piero Macchi, Fabio Ragaini, Eric Rose
Amination of C-H Bonds by Metal Porphyrins Catalysed Nitrene Transfer Reaction

10:50 to 11:10

Tsunehiko Higuchi (*Graduate School of Pharmaceutical Sciences, Nagoya City University, Nagoya, Japan*)
Ruthenium Porphyrin-Heteroaromatic N-Oxide as a Robust and Versatile Oxidizing System

11:10 to 11:30

Keith Woo (*Chemistry, Iowa State University, Ames, USA*), Bernie Anding
Catalytic Carbene Transfer Reactions with Iridium(III) Porphyrins

11:30 to 11:50

Gerard Simonneaux (*UMR 6226 Sciences Chimiques de Rennes, Rennes, France*), Soizic Chevance, Paul Le Maux, Irene Nicolas
Asymmetric Cyclopropanation in Water Catalyzed by Metalloporphyrins (Fe, Ru)

11:50 to 12:10

Bas de Bruin (*HIMS, Homogeneous and Supramolecular Catalysis, University of Amsterdam, Amsterdam, Netherlands*), Wojciech Dzik, Xue Xu, Peter Zhang
Radical carbenes as intermediates in C–C bond forming reactions

12:10 to 12:30

Albrecht Berkessel (*University of Cologne, Chemistry Department, Cologne, Germany*), Erkan Ertürk, Matthias Frauenkron, Patrick Kaiser, Stefanie Labs
Metal Complexes of D4-Porphyrins as Catalysts for Enantioselective Group-Transfer and Cycloaddition Reactions

12:30 to 12:50

Toshikatsu Takanami (*Meiji Pharmaceutical University, Tokyo, Japan*), Kohji Suda
Metalloporphyrins and Phthalocyanines as Efficient Lewis Acid Catalysts with a Unique Reaction-Field

12:30 to 14:30  **Lunch**
Friday 9 July, 2010 - Afternoon

S4 Surface Chemistry: Porphyrins and Phthalocyanines at Solid-Liquid, Solid-Vacuum and Liquid-Liquid Interfaces

Chair/Co-Chair: Michael Gottfried, Hubert Girault and Jean-Michel Barbe

Wolf Room

14:00 to 14:30  Keynote
Klaus Wandelt *(Institut für Physikalische und Theoretische Chemie, Universität Bonn, Bonn, Germany)*
Porphyрин monolayers at metal-electrolyte interfaces

14:30 to 14:50
K. W. Hipps *(Chemistry Department & Materials Science and Engineering Program, Washington State University, Pullman, USA)*, Ursula Mazur
Electron Tunneling Spectroscopy of Porphyrins and Phthalocyanines on Surfaces: Single Molecules to Nanorods

14:50 to 15:10
Hubertus Marbach *(Lehrstuhl fuer Physikalische Chemie II, Universitaet Erlangen, Erlangen, Germany)*
Microscopic Insight into the Arrangement and Functionalization of Porphyrins on Surfaces

15:10 to 15:30
Wilhelm Auwärter *(Technical University Munich, Garching, Germany)*
Engineering Surface-Supported Porphyrin Nanosystems

15:30 to 15:50
Michael Gottfried *(Universitaet Erlangen-Nuernberg, Lehrstuhl fuer Physikalische Chemie 2, Erlangen, Germany)*, Yun Bai, Min Chen, Anne Dees, Andreas Goerling, Wolfgang Hieringer, Ivana Ivanovic-Burmazovic, Norbert Jux, Rainer Lippert, Martin Schmid, Hans-Peter Steinruess, Junfa Zhu
Metalloporphyrin complexes at solid and liquid surfaces: Formation, redox chemistry and surface coordinative bond

15:50 to 16:10
Hubert H. Girault *(Laboratoire d’Electrochimie Physique et Analytique, EPFL, Lausanne, Switzerland)*, Jean-Michel Barbe, Claude Gros, Imren Hatay, Manuel Mendez, Zdenek Samec, Bin Su
Molecular electrocatalysis at soft interfaces : Oxygen reduction by amphiphilic porphyrins

16:10 to 16:30
Hirohisa Nagatani *(Department of Applied Chemistry, Faculty of Engineering, Nagasaki University, Nagasaki, Japan)*
Spectroelectrochemical Analysis of Ion-Transfer and Adsorption of Porphyrins at the Liquid/Liquid Interface

16:30 to 17:00  Coffee Break
S8 Phthalocyanines and Related Azaporphyrins
Chair/Co-Chair: Salome Rodriguez Morgade and Tony Barrett

14:00 to 14:30  Keynote
Tebello Nyokong (Chemistry Department, Rhodes University, Grahamstown, South Africa), Edith Antunes, Jonathan Britton, Sarah D Souza, Mopelola Idowu, Christian Litwinski, Sharon Moeno
Photophysical Behaviour of Phthalocyanines in the Presence of Nanoparticles

14:30 to 14:50
Andrè Cammidge (Chemistry, UEA, Norwich, United Kingdom), Michael Cook, Zhixin Zhao
Versatile Syntheses of Multichromophore Arrays Based on Phthalocyanines, Porphyrins and their Derivatives

14:50 to 15:10
Sergiu M. Gorun (Department of Chemistry and Environmental Science, New Jersey Institute of Technology, Newark, USA)
Phthalocyanines Lacking C-H Bonds: Lessons for Bioinspired Catalysis and Materials Chemistry

15:10 to 15:30
Purificación Vázquez (Dept. Química Orgánica, Universidad Autónoma de Madrid, Madrid, Spain), Juan-José Cid, Miguel García-Iglesias, Tomás Torres
New Carboxy-Phthalocyanines: Design, Synthesis, Characterization and Properties

15:30 to 15:50
Ángela Sastre-Santos (División de Química Orgánica, Instituto de Bioingeniería, Universidad Miguel Hernández, Elche, Spain), F. Javier Céspedes-Guirao, Fernando Fernández-Lázaro, Shunichi Fukuzumi, Luis Martín-Gomis, Kei Ohkubo
Silicon phthalocyanines-acceptor systems: from synthesis to spectroscopy and photophysics

15:50 to 16:10
Anthony Barrett (Department of Chemistry, Imperial College London, London, United Kingdom)
Multimodal Tumor Imaging and Killing With Porphyrazines

16:10 to 16:30
Maria Pia Donzello (Dipartimento di Chimica, Università di Roma “La Sapienza”, Rome, Italy), Claudio Ercolani
More Recent Developments in the Area of Electron-Deficient Porphyrazine Macrocycles

16:30 to 17:00  Coffee Break
S14 Biological and Medical Effects of Water-Soluble, Cationic Manganese Porphyrins

Chair/Co-Chair: Ines Batinic-Haberle and Julio S. Rebouças

Hawk Room

14:00 to 14:30  Keynote
  Jon Piganelli (Department of Pediatrics, Pittsburgh, USA)
  Role of Redox Changes in Immune Function and the Impact of Cationic Mn Porphyrins

14:30 to 14:50
  David Warner (Department of Anesthesiology, Durham, USA), Ines Batinic-Haberle, Huaxin Sheng
  Mn Porphyrins and the Injured Brain

14:50 to 15:10
  Ivan Spasojevic (Department of Medicine, DUCC Clinical Pharmacology Lab, Duke University Medical Center, Durham, USA)
  Manganese Porphyrins as Therapeutics. Analyses in Plasma, Tissues, and Cellular Compartments

15:10 to 15:30
  Júlio S. Rebouças (Departamento de Química, Centro de Ciências Exatas e da Natureza, Universidade Federal da Paraíba, Joao Pessoa, Brazil), Ines Batinic-Haberle, Ludmil Benov
  Escherichia coli Model as an Excellent Tool for Developing SOD Mimic- and Redox Modulator-Based Therapeutics

15:30 to 15:50
  Mark Dewhirst (Radiation Oncology Duke University Health System, Durham, USA), Ines Batinic-Haberle, Zeljko Vujaskovic
  HIF-1: an oxygen and free radical sensor that regulates tumor cell behavior and treatment response. The role of Mn porphyrins in modulating its transcriptional activity

15:50 to 16:10
  Christopher Lascola (Departments of Radiology and Neurobiology, Duke University Medical Center, Durham, USA), Timothy Amrhein, Ines Batinic-Haberle, Vladimir Mouraviev, Talaignar Venkatraman, Haichen Wang
  Mn-Porphyrins SOD Mimetics as Novel MR Imaging Probes

16:10 to 16:30
  Sidhartha Tan (Department of Pediatrics, University of Chicago and North Shore University HealthSystem, Evanston, USA), Ines Batinic-Haberle, Matthew Derrick, Alexander Drobyshevsky, Xinhai Ji, Tingting Liu, Lei Yu

16:30 to 17:00  Coffee Break
S23 Heme-NOx Species, both in Proteins and Model Compounds

Chair/Co-Chair: George Richter-Addo and Patrick Farmer

Bear Room

14:00 to 14:30  **Keynote**

*Peter Ford* (Chemistry and Biochemistry, UC Santa Barbara, Santa Barbara, USA), Julie Heinecke, Alexei Iretskii, Chosu Khin, Tigran Kurtikyan

Reactivity of heme coordinated nitrite: Oxygen atom transfer processes

14:30 to 14:50

*Elizabeth Boon* (Department of Chemistry, Stony Brook University, Stony Brook, USA)

Determining the Molecular Basis of Gas Sensing by H-NOX Domains

14:50 to 15:10

*Nicolai Lehnert* (Department of Chemistry, University of Michigan, Ann Arbor, USA), Lauren Goodrich, Huayang Lee

The Detoxification of Nitric Oxide in Biological Systems

15:10 to 15:30

*Daniel Kim-Shapiro* (Physics, Wake Forest University, Winston Salem, USA), Mark Gladwin, Neil Hogg

Reactions of nitrite with haemoglobin and cytochrome c

15:30 to 15:50

*Yong Zhang* (Department of Chemistry and Biochemistry, University of Southern Mississippi, Hattiesburg, USA), Yan Ling, Eric Oldfield

Deciphering Structural Fingerprints for Heme Proteins with High Accuracy Quantum Chemical Calculations

15:50 to 16:10

*Fabio Doctorovich* (Department of Inorganic, Analytical and Physical Chemistry, UBA, Buenos Aires, Argentina)

Metalloporphyrins as Nitroxyl Traps

16:10 to 16:30

*Abhik Ghosh* (Department of Chemistry, University of Tromsø, Tromsø, Norway), Bruno Cardey, Kathrin Hopmann

Modeling Methemoglobin-Nitrite Reactivity

16:30 to 17:00  **Coffee Break**
S26 Advances in the Coordination Chemistry, Structure and Reactivity of Porphyrin and Related Macrocycles

Chair/Co-Chair: Penny Brothers and Abhik Ghosh

Eagle Room

14:00 to 14:30  Keynote
James P. Collman (Stanford University, USA), Richard Decreau, Abhishek Dey, Lei Fu, Somdatta Gosh, Ying Yang
Three Gases: O2, NO, and H2S Meet in the Mitochondria

14:30 to 14:50
Bernard Boitrel (Sciences Chimiques de Rennes, Rennes, France), Zakaria Halime, Mohammed Lachkar, Nicolas Motreff
Superstructured Bismuth and Lead Porphyrins

14:50 to 15:10
Martin Bröring (Fachbereich Chemie, Philipps-Universität, Marburg, Germany)
Gas phase deposition and STM study of iron corroles on copper

15:10 to 15:30
Seth Cohen (U.C. San Diego, La Jolla, USA)
Dipyrrins – From Coordination Chemistry to Coordination Polymers

15:30 to 15:50
Christopher Ziegler (Department of Chemistry, University of Akron, USA), Roshinee Costa, Saovalak Sripothongak
New directions in the metal chemistry of the carbaheinporphyrazines

15:50 to 16:10
Xuefeng Fu (College of Chemistry and Molecular Engineering, Beijing, China), Yun Lin, Bradford B. Wayland, Jiadi Zhang
Oxidation of unactivated olefins catalyzed by rhodium porphyrins in water: Mechanistic studies of inter and intramolecular activation of olefins

16:10 to 16:30
Yulia Gorbunova (A.N. Frumkin Institute of Physical Chemistry and Electrochemistry of RAS, Moscow, Russia), Alla Bessmertnykh, Yulia Enakieva, Roger Guilard, Sergey Nefedov, Yoann Rousselin, Christine Stern, Aslan Tsivadze
Coordination Networks Based on Polyphosphorylporphyrins

16:30 to 17:00  Coffee Break
Plenary/Award Lecture
Chair: John Dawson
Tamaya Ballroom

17:00 to 18:00

John T. Groves *(Department of Chemistry, Princeton University, Princeton, USA)*
How Nature Uses Oxygen, Lessons from Heme Proteins and Synthetic Metalloporphyrins

Closing Ceremonies
Tamaya Ballroom
18:00
# Poster Presentations

**Tuesday**  
<table>
<thead>
<tr>
<th># of Post.</th>
<th>Tuesday Title</th>
<th># of Post.</th>
<th>Thursday Title</th>
<th># of Post.</th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td>Self-Assembled Porphyrin and Phthalocyanine Nanostructures and Biomorphs</td>
<td></td>
<td>2</td>
<td>Multichromophore Arrays and Complex Assemblies: Defined Oligomers</td>
</tr>
<tr>
<td>11</td>
<td>Porphyrins and Phthalocyanines in Solar Cells</td>
<td></td>
<td>4</td>
<td>Surface Chemistry: Porphyrins and Phthalocyanines at Solid-Liquid, Solid-Vacuum and Liquid-Liquid Interfaces</td>
</tr>
<tr>
<td>3</td>
<td>Subphthalocyanines, Subporphyrazines and Subporphyrins</td>
<td></td>
<td>3</td>
<td>6 Porphyrins and Modified Porphyrins</td>
</tr>
<tr>
<td>14</td>
<td>Functionalization of Tetrapyrroles</td>
<td></td>
<td>7</td>
<td>π-Expanded Porphinoids and Corroles: Synthesis and Coordination Chemistry</td>
</tr>
<tr>
<td>12</td>
<td>Photodynamic Protocols for Tumor Diagnosis and Therapy</td>
<td></td>
<td>8</td>
<td>Phthalocyanines and Related Azaporphyrins</td>
</tr>
<tr>
<td>2</td>
<td>Tetrapyrrole Interaction with Mitochondria, Proteins, and Artificial and Natural Membranes</td>
<td></td>
<td>12</td>
<td>Strategies for Optimizing Porphyrin- and Phthalocyanine-Based PDT and BNCT</td>
</tr>
<tr>
<td>4</td>
<td>Porphyrins and Nucleic Acids</td>
<td></td>
<td>14</td>
<td>Biological &amp; Medical Effects of Water-Soluble, Cationic Manganese Porphyrins</td>
</tr>
<tr>
<td>10</td>
<td>Heme Enzymes and Model Systems</td>
<td></td>
<td>18</td>
<td>Spectroscopic Probes of Electronic Structure for Heme Proteins and Porphinoids</td>
</tr>
<tr>
<td>2</td>
<td>Biosynthesis of Chlorophylls</td>
<td></td>
<td>19</td>
<td>Natural Porphinoid Pigments: Structure, Function and Synthesis</td>
</tr>
<tr>
<td>3</td>
<td>Activation of Small Molecules by Porphyrin Metal Complexes</td>
<td></td>
<td>22</td>
<td>Heme-Based Gas-Sensor Proteins</td>
</tr>
<tr>
<td>3</td>
<td>Activation of Small Molecules by Phthalocyanine and Macrocyclic Metal Complexes</td>
<td></td>
<td>23</td>
<td>Heme-Nox Species, both in Proteins and Model Compounds</td>
</tr>
<tr>
<td>14</td>
<td>Sensors</td>
<td></td>
<td>26</td>
<td>Advances in the Coordination Chemistry, Structure and Reactivity of Porphyrin and Related Macrocycles</td>
</tr>
<tr>
<td>6</td>
<td>Theoretical and Spectroscopic Studies on Porphyrines, Phthalocyanines, and their Metal Complexes</td>
<td></td>
<td>27</td>
<td>Lanthane Tetrapyrrolic Compounds: Chemistry and Applications</td>
</tr>
<tr>
<td>4</td>
<td>Electron Transfer and Applications</td>
<td></td>
<td>30</td>
<td>Metalloporphyrin-Catalyzed Selective Organic Synthesis</td>
</tr>
<tr>
<td>1</td>
<td>Artificial Photosynthesis</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>Porphyrin Based Supramolecular Systems in Chemistry and Biology</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

All Tuesday posters except #5 are from Monday/Tuesday symposia and all Thursday posters are from Thursday/Friday Symposia.
Tamaya Ballroom F, G and H
(Numbers 001 to 130 correspond to poster numbers on following pages)
Tuesday 6 July, 2010 - Poster Presentation
Tamaya Ballroom F,G,H

S1 Self-Assembled Porphyrin and Phthalocyanine Nanostructures and Biomorphs

S01-001
Yonbon Arai (Research Center for Advanced Science and Technology, The University of Tokyo, Tokyo, Japan), Hiroshi Segawa
J-Aggregates of Protonated meso-Tetrakis(sulfonatothienyl)porphyrin Isomers: Self-Assembly Controlled by Anionic Substituent or Inorganic anion

S01-002
Giovanna De Luca (Institute of Composite and Biomedical Materials, CNR, Naples, Italy), Sara Stelitano, Salvatore Savasta, Salvatore Patanè, Luigi Monsù Scolaro
Optical Properties of Tetra(4-methoxyphenyl)porphyrin Thin Films and Their Applications

S01-003
Javoris Hollingsworth (Louisiana State University, Baton Rouge, USA), Paul Russo, Graca Vicente
Characterization of the Self-Assembly of Water-Soluble Porphyrins in Aqueous Solution

S01-004
Pyosang Kim (Department of Chemistry, Yonsei University, Seoul, Korea), Akihiko Tsuda
Excitation Energy Migration Processes in Self-assembled Porphyrin Boxes Constructed by Conjugated Porphyrin Dimers

S01-005
Tomohiro Miyatake (Department of Materials Chemistry, Ryukoku University, Otsu, Japan), Fumika Sasaki, Hitoshi Tamiaki
Artificial Light-Harvesting Antenna Prepared with Self-Aggregate of Amphiphilic Zinc Chlorin Dyads

S01-006
Kun Na (Biotechnology, Catholic University of Korea, Bucheon, Gyeonggi-do, Korea), Byoung-chan Bae
Pullulan / Porphyrin Derivative Conjugates for Photodynamic Therapy: Physicochemical Characterization, Photoactivity and Phototoxicity.

S01-007
Eulalia Pereira (REQUIMTE, Faculdade de Ciencias, Universidade do Porto, Porto, Portugal), Adelaide Miranda, Leonor Soares, Eliana Malheiro, Pedro Quaresma, Patrícia A. Carvalho, Peter Eaton
Green Synthesis of Au Nanoparticles Using Tin(IV) Meso-tetra(4-N-methylpyridyl)porphine as a Photocatalyst: Kinetic Control of Shape and Size

S01-008
Kyung-Jin Roh (Materials Chemistry & Engineering, Seoul, Korea), Yu-Seon Kho
Size control of porphyrin H-aggregates in solution state

S01-009
Essi Sariola (Department of Chemistry and Bioengineering, Tampere University of Technology, Tampere, Finland)
Synthesis of Porphyrinoids with Silane Anchors and Their Covalent Self-Assembling and Metallation on Solid Surface
S01-010

Yongming Tian (Advanced Materials Laboratory, Albuquerque, USA), Craig Medforth, John Shelnutt
Ionic Self-Assembly of Porphyrins with Micro/Nano Morphology

S01-011

Vanda Vaz Serra (Universidade de Aveiro, Aveiro, Portugal), Suzana Andrade, João Rodrigues, Maria Neves, Maria Faustino, José Cavaleiro, Silvia Costa
The Role of Counterions in the Self Assembly Chemistry of Meso-4-carboxyphenylporphyrins

S3 Porphyrins and Phthalocyanines in Solar Cells

S03-012

Vyacheslav Diev (Chemistry Department, University of Southern California, Los Angeles, USA), Kenneth Hanson, Jeramy Zimmerman, Stephen Forrest, Mark Thompson
Molecular design of porphyrin-based macrocycles for improved organic photovoltaic cells

S03-013

Kalliopi Ladomenou (Chemistry, Heraklion, Greece), Georgios Charalambidis, Galateia E. Zervaki, Georgia Pagona, Nikos Tagmatarchis, Athanassios G. Coutsolelos
Novel Hybrid Materials Based on Porphyrin Dimers for Photovoltaic Applications

S03-014

Wei Liu (State Key Lab of Crystal Materials, Jinan, China)
Hybrid Semiconductors Based on TiO₂ and Liquid Crystalline Copper Phthalocyanine

S03-015

Carlos Monteiro (Chemistry Department, University of Coimbra, Coimbra, Portugal), Ana Simões, Diana Ferreira, Mónica Barroso, Carlos Serpa, Luís Arnaut, Mariette Pereira
Solventless Synthesis of Hydroporphyrins: Promising Near IR Dyes for Invisible Photovoltaic Windows

S03-016

Kyung-Jin Roh (Materials Chemistry & Engineering, Seoul, Korea), Yu-Seon Kho
Dendritic ligand effects on the power conversion efficiency of dye-sensitized solar cell

S03-017

Alexander Rudine (Department of Chemistry, Portland State University, Portland, USA), Xisen Tian, Garrett Ni, Ming Ran Zhang, Carl Wamser
Substituent and Metallation Effects of Amino/carboxyphenylporphyrins in Dye-Sensitized Solar Cells

S03-018

Keiichi Sakamoto (Department of Sustainable Engineering, College of Industrial Technology, Nihon University, Narashino, Japan), Hisashi Soga
Synthesis of Near Infrared Absorbed Phthalocyanines for Photovoltaic Cells

S03-019

Alexandra Soldatova (Department of Chemistry, University of Washington, Seattle, USA), Mingjian Yuan, Christine Luscombe, Thomas Spiro
Photocatalytic H₂ production using metallophthalocyanines
S03-020
Larisa Tomilova (Chemical Department, MSU, Moscow, Russia), Nikolai Davidenko, Anatolii Lobach, Victor Pushkarev
Design and investigation of the photoconducting properties of the heterostructures based on PEPC/MEH-PPV films doped with zinc octabutylphthalocyanine

S03-021
Michael Walter (Division of Chemistry and Chemical Engineering, California Institute of Technology, Pasadena, USA), Carl Wamser, Nathan Lewis
Nanostructured Poly-tetrakis(4-aminophenyl)porphyrins for Liquid Junction Solar Cells and as a Hydrogen Evolving Electrocatalytic Film for Silicon Photoelectrodes

S03-022
Hong Wang (Department of Chemistry and Biochemistry, Oxford, USA), Rohit Deshpande, Yongming Deng
The Synthesis and Studies of Push-Pull Extended Porphyrins as Light Harvesters for Solar Energy Conversion: Toward Dye-Sensitized-Solar Cells

S5 Porphyrin Based Supramolecular Systems in Chemistry and Biology

S05-023
Thomas Bandy (University of Southampton, School of Chemistry, Southampton, United Kingdom), Ashley Brewer, Jonathan Burn, Gabriella Marth, Thao Nguyen Nguyen, Daniel Singleton, Eugen Stulz
Energy transfer in supramolecular porphyrin assemblies.

S05-024
Miriam Biedermann (Friedrich-Alexander University Erlangen-Nuremberg, Department of Organic Chemistry, Chair of Organic Chemistry II, Erlangen, Germany), Norbert Jux
Synthesis and Characterisation of Water-soluble Porphyrin-Pyrene and Porphyrin-Perylene Conjugates

S05-025
Giovanna De Luca (Institute of Composite and Biomedical Materials, CNR, Naples, Italy), Ilaria Occhiuto, Andrea Romeo, Luigi Monsù Scolaro, Robert F. Pasternack
Aggregating Cu(II) Porphyrin as Chiroptical Sensor

S05-026
Krystal Fontenot (Department of Chemistry, Louisiana State University, Baton Rouge, USA), Maria Graca H. Vicente
Design, Synthesis, and Application of Pegylated Peptides Conjugated to Porphyrins

S05-027
Leonie Jones (Department of Chemistry, The University of Auckland, Auckland, New Zealand), Peter Boyd
Supramolecular Porphyrin-Fullerene Interactions

S05-028
Koji Kano (Molecular Chemistry and Biochemistry, Kyotanabe, Japan), Kenji Watanabe
Progressive Change in Rate Constant for Enzymatic Reaction – Effect of Porphyrin J-aggregates
S05-029
Chi-Hwa Lee (Department of Chemistry, Yonsei University, Seoul, Korea), Hongsik Yoon
Biindole-bridged porphyrin dimer as allosteric molecular tweezers

S05-030
Magnus Legemah (Chemistry, Houston, USA), Eric Van Caemelbecke, John L. Bear, Karl M. Kadish
Synthesis, Characterization of Ru₂(2-Fap)₄[CºCpy]₂ (2-Fap = 2-Fluoroanilinopyrinate Anion and TPP = Dianion of Tetraphenylporphyrin) and Spectroelectrochemical Studies of its Interaction with (TPP)Co

S05-031
Dani Lyons (Department of Chemistry, The University of Auckland, Auckland, New Zealand), Peter Boyd, Gianluca Accorsi, John Mohanraj, Nicola Armaroli
A Supramolecular Porphyrin-Ferrocene-Fullerene Triad – Synthesis, Crystallography and Complexation Studies

S05-032
Jenny Malig (Department of Chemistry and Pharmacy & Interdisciplinary Center for Molecular Materials, Erlangen, Germany), N. Jux, D. M. Guldi
Water-Soluble porphyrin-tweezer as selective supramolecular host for fullerene derivatives

S05-033
Antonio Mazzaglia (ISMN-CNR, Messina, Italy), Valentina Villari, Maria Angela Castriciano, Giovanna De Luca, Andrea Romeo, Luigi Monsù Scolaro, Norberto Micali
Optical and Structural Properties of a Hybrid Organic-Inorganic Ternary Nanocomposite

S05-034
Alecia McCall (Louisiana State University, Baton Rouge, USA), M. Graca H. Vicente
Synthesis of Porphyrin Conjugates with Affinity for Epidermal Growth Factor Receptor (EGFR)

S05-035
Shan Terika Remo (Department of Chemistry, Louisiana State University, Baton Rouge, USA), M. Graca H. Vicente, Alecia McCall
Synthesis of Carboxyphenyl-substituted Porphyrins

S05-036
Giampaolo Ricciardi (Università della Basilicata, Dipartimento di Chimica, Potenza, Italy), Angela Rosa, Daniela Pietrangeli, Sandra Ristori, Alessandro Feis
Supramolecular Adducts of Alkylthioporphyrazines and Gold Nanoparticles in Hydrotropic Medium

S05-037
Irene Schmilinsky (Fraunhofer Institute for Biomedical Engineering, Potsdam, Golm, Germany), Kai P. Strotmeyer, Nenad Gajovic-Eichelmann, Marco Vitali, Han-Jörg Eckert, Peter Hildebrandt, Martin Katterle
Photoinduced Electron Transfer from a new pheophytin a - derivative to cytochrom c - a Biomimetic Reaction Center Model

S05-038
Sunao Shoji (Department of Bioscience and Biotechnology, Ritsumeikan University, Kusatsu, Japan), Michio Kunieda, Hitoshi Tamiaki
Self-aggregates of Synthetic Bacteriochlorophyll- d Analogs Possessing an Oligomethylene Chain at the 17-Propionate Residue
S05-039  
Daniel Singleton (School of Chemistry, University of Southampton, Southampton, United Kingdom), Thomas Bandy, Immene Bouamaïed, Ashley Brewer, Jonathan Burns, Simon Gerrard, Gabriella Marth, Thao Nguyen, Giuliano Siligardi, Eugen Stulz  
Synthesis of DNA-Porphyrin Arrays

S05-040  
Alagar Srinivasan (School of Chemical Sciences, National Institute of Science Education and Research, Bhubaneshwar, India)  
ansa-Metallocene Based Calix[2]pyrroles and Calix[n]metallocenyl[m]pyrins (n = 1, 2 and m = 2, 4)

S05-041  
John David Van Paauwe (University of Auckland, Auckland, New Zealand), Peter D. W. Boyd  

S9 Subphthalocyanines, Subporphyrazines and Subporphyrins

S09-042  
Shin-ya Hayashi (Graduate School of Science, Kyoto University, Kyoto, Japan), Yasuhide Inokuma, Atsuhiro Osuka  
Synthesis and Properties of meso-Alkyl-subporphyrins

S09-043  
Eiji Tsurumaki (Kyoto University, Graduate School of Science, Kyoto, Japan), Atsuhiro Osuka  
Synthesis and Characterizations of β-substituted Subporphyrins

S09-044  
Timsy Uppal (Department of Chemistry, Louisiana State University, Baton Rouge, USA), M. G. H. Vicente  
New Routes to Water-Soluble Near-IR BODIPY Derivatives

S09-045  
Johannes Ahrens (Institut für Anorganische und Analytische Chemie, Technische Universität Carolo-Wilhelmina, Braunschweig, Germany), Robin Krüger, Martin Bröring  
Dimers of BODIPYs

S10 Functionalization of Tetrpyrroles

S10-046  
Joana Barata (Department of Chemistry, Aveiro, Portugal), M. Graça P. M. S. Neves, Augusto C. Tomé, Artur M. S. Silva, M. Graça O. Santana-Marques, José A. S. Cavaleiro  
Novel corrole derivatives from 5,10,15-tris(pentafluorophenyl)corrole

S10-047  
Maria Angela Castriciano (ISMN-CNR, Messina, Italy), Andrea Romeo, Luigi Monsù Scolaro, Franz H. Kohne, Grazia Cafeo  
Supramolecular assembling and sensor application of calix[4]pyrrole derivatives and porphyrins
S10-048

**Mothi M. Ebrahim** (*Chemistry Department, Trinity College Dublin, Dublin, Ireland*), Mathias O. Senge

Porphyrins as Dienophiles for Hetero Diels–Alder Reactions

S10-049

**Astrid Hopf** (*Friedrich-Alexander University, Department of Chemistry and Pharmacy, Chair of Organic Chemistry II, Erlangen, Germany*), Stefan Jasinski, Norbert Jux, Daniel Götz, Anu Schaumlöffel, Gerhard Bringmann, Eugeny Ermilov, Beate Röder

Synthesis and Characterization of Cycloketoporphyrins

S10-050

**Moses Ihachi** (*Chemistry, Louisiana State University, Baton Rouge, USA*), Kevin Smith

New Routes To 1,2-Dipyrrolythenes, And Potentially To Macrocycles Containing Them

S10-051

**Rainer Lippert** (*Department of Chemistry and Pharmacy, Erlangen, Germany*), Norbert Jux

Highly Charged Water Soluble Ruthenium Porphyrins

S10-052

**Carla M. B. Carvalho** (*Department of Chemistry, University of Aveiro, Aveiro, Portugal*), Maria G. P. M. S. Neves, Augusto C. Tomé, Artur M. S. Silva, José A. S. Cavaleiro

Synthesis and chemistry of Novel 1,3-dioxopyrrolo[3,4-b]porphyrins

S10-053

**Nuno Moura** (*Department of Chemistry, University of Aveiro, Aveiro, Portugal*), Maria A. Faustino, Maria G. P. M. S. Neves, Augusto C. Tomé, E. M. Rakib, A. Hannioui, S. Abouricha, Artur M. S. Silva, José A. S. Cavaleiro

Synthesis of porphyrin-pyrazole derivatives via 1,3-dipolar cycloaddition with nitrile imines

S10-054

**Ana T. P. C. Gomes** (*Department of Chemistry, University of Aveiro, Aveiro, Portugal*), Fernando C. Silva, Maria G.P.M.S. Neves, Augusto C. Tomé, Artur M. S. Silva, Maria C. B.V. de Souza, Vítor F. Ferreira, José A.S. Cavaleiro

Glycoporphyrins synthesis through insertion reaction of carbohydrate-substituted α-diazoacetates

S10-055

**Ana Mafalda Pereira** (*Departamento de Química, Aveiro, Portugal*), Maria G. P. M. S. Neves, Christophe Jeandon, Jean-Paul Gisselbrecht, Romain Ruppert, José A. S. Cavaleiro

Synthesis, photochemical and electrochemical studies of N-phenylquinolino[2,3,4-at]porphyrins

S10-056

**Ana Mafalda Pereira** (*Departamento de Química, Aveiro, Portugal*), Cristina M. A Alonso, Maria G. P. M. S. Neves, Augusto C. Tomé, Artur M. S. Silva, Filipe A. A. Paz, Christophe Jeandon, Romain Ruppert, José A. S. Cavaleiro

Synthetic routes to 2-arylaminoporphyrins and N-arylquinolino[2,3,4-at]porphyrins

S10-057

**David Sanchez-Garcia** (*Institut Químic de Sarrià, Universitat Ramon Llull, Barcelona, Spain*)

Synthesis of 2,7,12,17-tetraatraaryl substituted porphycenes for photodynamic therapy

S10-058

**Masahiko Taniguchi** (*Department of Chemistry, NC State University, Raleigh, USA*), Jonathan Lindsey

Red and Near-Infrared Wavelength-Tunable Synthetic Hydroporphyrins
S11 Photodynamic Protocols for Tumor Diagnosis and Therapy

S11-060

Joana F. B. Barata (Chemistry Department, Aveiro, Portugal), M. Graça P. M. S. Neves, M. Amparo F. Faustino, Augusto C. Tomé, José A. S. Cavaleiro, Alicia Zamarrón, Angeles Juarranz, Beate Röder

Novel Corrole-Cyclodextrin Derivatives and Their Photodynamic Effects on HeLa cells

S11-061

Naisheng Chen (Institute of Research on Functional Materials, Department of Chemistry, Fuzhou, China), Zhou Jiang, Wenyi He, Yan Wang, Jian Wang, Hong Liu, Jinling Huang

Separation and Structure Identification of Suftalan Zinc components

S11-062

Anurag Gupta (Photodynamic Therapy Center, Roswell Park Cancer Institute, Buffalo, USA), Shouyan Wang, Manivannan Ethirajan, Paula Pera, Janet Morgan, Raoul Kopelman, Ravindra K. Pandey

Biodegradable Nanoparticles for Enhanced Tumor Detection and Phototherapy

S11-063

Xiaoke Hu (Department of Chemistry, Baton Rouge, USA), Martha Sibrian Vazquez, M. Graca H. Vicente

Synthesis and Cellular Studies of Porphyrins Substituted with HMGN2 Protein Fragments

S11-064

Antonino Mazzaglia (ISMN-CNR, Messina, Italy), Maria Luisa Bondi, Maria Assunta Costa, Giovanna Barbieri, Claudia Pellerito, Tiziana Fiore, Lorenzo Pellerito

Nanoassemblies of Amphiphilic Cyclodextrin and Tributyltin(IV)Complexes of meso-Tetra(4-sulfonatophenyl)porphine: Spectroscopy, Release and Cytotoxicity on Human Melanoma Cells

S11-065

Luigi Monsù Scolaro (Dipartimento di Chimica Inorganica, Chimica Analitica e Chimica Fisica, Messina, Italy), Antonino Mazzaglia, Maria Angela Castriciano, Bernard Martel, Andrea Romeo

Inclusion of Anionic Porphyrins in Tissues Modified by Cyclodextrin Polymers for Antimicrobial Photosensing Activity

S11-066

Kenneth Ng (Institute of Biomaterials and Biomedical Engineering, Toronto, Canada), Weiguo Cao, Zhihong Zhang, Ian Corbin, Gang Zheng

Synthesis and Evaluation of a Novel Bacteriochlorin-e6 Photosensitizer for Stable Incorporation into Tumour-targeted High-Density Lipoprotein Nanoparticles

S11-067

Nayan J. Patel (Roswell Park Cancer Institute, Buffalo, USA), Penny Joshi, Manivannan Ethirajan, Yihui Chen, Ravindra Pandey

Structural Requirements for the Development of Agents for Fluorescence Imaging with and without PDT
S11-068

Cyril Ringot (Laboratoire de Chimie des Substances Naturelles, UPRES EA 1069-GDR CNRS 3049, Limoges, France), Vincent Sol, Naima Saad, Philippe Bressolier, Robert Granet, Pierre Krausz
Amino porphyrin-grafted cotton fabric using 1,3,5-triazine link - Application to antimicrobial phototherapy

S11-069

Cyril Ringot (Laboratoire de Chimie des Substances Naturelles, UPRES EA 1069-GDR CNRS 3049, Limoges, France), Vincent Sol, Robert Granet, Pierre Krausz
Original concept to graft porphyrins on cellulose fabrics; novel photo-antibacterial surfaces

S11-070

Yanfang Wang (Photodynamic Therapy Center, Roswell Park Cancer Institute, Buffalo, USA), Avinash Srivatsan, Ravindra K. Pandey
Synthesis Strategies for Developing Multifunctional Nanoparticles for Tumor Imaging and Photodynamic Therapy using Gold Nanoparticles

S11-071

Petr Zimcik (Department of Pharmaceutical Chemistry and Drug Control, Faculty of Pharmacy in Hradec Kralove, Charles University in Prague, Hradec Kralove, Czech Republic), Miroslav Miletin, Emil Rudolf, Hana Radilova
Water-soluble Azaphthalocyanines Suitable for Photodynamic Therapy

---

S13 Tetrapyrrole Interaction with Mitochondria, Proteins, and Artificial and Natural Membranes

S13-072

Roman Dedic (Charles University in Prague, Faculty of Mathematics and Physics, Department of Chemical Physics and Optics, Prague, Czech Republic), Alexander Molnár, Antonín Svoboda, Jan Hála
Light-Induced TPP Photoproduct Formation in Chloroform and Protective Role of Lipids

S13-073

Lisa van Diggelen (Department of Chemistry & Biochemistry San Francisco State University, San Francisco, USA), Ursula Simonis, Meden Isaac, Lisa Altieri, Jayanta Debnath, Anna Jung, Lenin Parrales, Sarah Sareh, Jenny Shao
Synthesis, characterization, and subcellular localization studies of lysine-substituted porphyrinic pigments

---

S15 Porphyrins and Nucleic Acids

S15-074

Zhen Fu (University of Houston, Houston, USA), Jing Shen, Zhongping Ou, Tony Khoury, Maxwell Crossley, Karl Kadish
Spectroelectrochemistry of metalloporphyrins with 1-4 fused quinoxaline groups

S15-075

Ji-Hoon Lee (Department of Chemistry, Yeungnam University, Gyeongsan City, Korea), Jin-A Jung, Borami Park, Seog K. Kim
Porphyrin-DNA Interaction: Factors That Affects the Binding Mode of Nonmetalloporphyrins to DNA
S15-076
Daniel Singleton (School of Chemistry, University of Southampton, Southampton, United Kingdom), Keith Fox, Giuliano Siligardi, Eugen Stulz
G-Quadruplexes with Covalently Bound Porphyrins

S15-077
Weihua Zhu (School of Chemistry and Chemical Engineering, Jiangsu University, Zhenjiang, China), Jimin Xie, Ou Zhongping
Study on the interaction between iron(III), manganese(III) tetraphenylporphyrins and ctDNA

S16 Heme Enzymes and Model Systems

S16-078
Sara Elizabeth Bari (Departamento de Química Inorgánica, Analítica y Química Física, Facultad de Ciencias Exactas y Naturales, Universidad de Buenos Aires, INQUIMAE/CONICET, Ciudad Autónoma de Buenos Aires, Argentina), Laura Perissinotti, Natalia Levin, Dario Estrin
Iron(III) Porphyrinates in the Formation of Nitrosative Species: Theoretical Results and Experimental Approach

S16-079
Sara Elizabeth Bari (Departamento de Química Inorgánica, Analítica y Química Física, Facultad de Ciencias Exactas y Naturales, Universidad de Buenos Aires, INQUIMAE/CONICET, Ciudad Autónoma de Buenos Aires, Argentina), Nicolás Surkin, Sergio Dabrowski, Fernando Boubeta, Leonardo Bocchi, Marcelo Martí, Ruth Rosenstein, Dario Estrin
The Relationship Between Sulfide Species and Iron Porphyrinates: A Theoretical and Experimental Approach

S16-080
Daniel Goldstein (The School of Chemistry, University of New South Wales, Sydney, Australia), Pall Thordarson, Joshua Peterson
Studies of Heme-Containing Bioconjugates in Solution and on Surfaces

S16-081
Markus Knipp (Max Planck Institute for Bioinorganic Chemistry, Mülheim an der Ruhr, Germany), Fei Yang, Tatiana Shokhireva, Robert Berry, Chunmao He, Hongjun Zhang, Ann Walker
Heme Rotational Disorder – A Single Mutation in Nitrophorins 2 and 7 Turns the Heme b Cofactor

S16-082
Gerd La Mar (Department of Chemistry, University of California, Davis, Davis, USA), Dungeng Peng, Li-Hua Ma, Tadashi Yoshida
Effect of mutations on the C-terminus-substrate interaction in N. meningitidis heme oxygenase: 2D NMR of the ferric-azide complex

S16-083
Timothy Lash (Department of Chemistry, Illinois State University, Normal, USA), Devyn Crawford, Marjorie Jones
Porphyrinogens with Acetate and Butyrate Side Chains as Probes for Coproporphyrinogen Oxidase

S16-084
Jonathan Rittle (Department of Chemistry, Pennsylvania State University, University Park, USA), Michael T. Green
Investigating the Redox Properties of Ferryl Intermediates in Chloroperoxidase
S16-085

Andrea Romeo (University of Messina, Messina, Italy), Maria Angela Castriciano, Fabrizia Fabrizi de Biani, Luigi Monsù Scolaro, Piero Zanello

Unusual electrochemical behavior of supramolecular complexes of hemin and PAMAM dendrimers

S16-086

Michael Tiedemann (Department of Chemistry, London, Canada), David Heinrichs, Martin Stillman

Mechanistic Studies of the Iron Regulated Surface Determinant (Isd) Heme Transfer Pathway in Staphylococcus aureus

S16-087

Tadayuki Uno (Graduate School of Pharmaceutical Sciences, Osaka University, Suita, Japan), Sakiko Morita, Akihito Tsujimoto, Masafumi Egawa, Taku Yamashita, Hiroshi Aoyama

Drug Binding and Metabolizing Properties of Human Cytochrome P450 1A2

---

**S17 Biosynthesis of Chlorophylls**

S17-088

R. G. Waruna Jinadasa (Louisiana State University, Baton Rouge, USA), Kevin Smith

Design, Syntheses and Characterization of Novel Chlorin Photosensitizers for Photodynamic Therapy

S17-089

Jiro Nomata (Bioagricultural Sciences, Nagoya University, Nagoya, Japan), Yuichi Fujita

Characterization of a nitrogenase-like enzyme, dark-operative protochlorophyllide reductase from Rhodobacter capsulatus with a specific inhibitor nicotinamide

---

**S20 Activation of Small Molecules by Porphyrin Metal Complexes**

S20-090

Yassuko Iamamoto (Departamento de Química FFCLRP, Universidade de São Paulo, Ribeirão Preto, Brazil), Luciana de Paula Baggini-Lôvo, Patrícia Riul Martins, Maria Sílvia Monsalves Moreira, Ieda Lúcia V. Rosa, Pierina Sueli Bonato

Manganese Porphyins Immobilized on Zeolite MCM41 as Appropriate Systems for Drug Metabolism

S20-091

Zhongping Ou (School of Chemistry and Chemical Engineering, Zhenjiang, China), Wei Sheng, Weihua Zhu, Yuanyuan Fang, Karl M. Kadish

Electrocatalytic reductive dechlorination of DDT with iron, manganese and cobalt prophyrins

S20-092

Atul Pratap Singh (Department of Applied Chemistry, Kumoh National Institute of Technology, Gumi, Korea), Bu Bae Park, Hee-Joon Kim

Metalloporphyrin as a Substitute of Microorganism: A Novel C-C Bond Cleavage in Acetylacetone by Metalloporphyrins
S21 Activation of Small Molecules by Phthalocyanine and Macrocyclic Metal Complexes

S21-093
Vefa Ahsen (Gebze Institute of Technology Department of Chemistry, Gebze Kocaeli, Turkey), Umit ISCI, Fabienne Dumoulin, Evgeny V. Kudrik, Pavel Afanasiev, Jean-Marc M. Millet, Vefa Ahsen, Alexander B. Sorokin
Influence of Bulkiness of Substituents on the Electronic State and Properties of N-bridged Diiron Phthalocyanines

S21-094
Lianqing Chen (College of Chemistry and Material Science, South-Central University for Nationalities, Wuhan, China), Yayun Guan, Yajuan Wang, Bingguang Zhang, Kejian Deng
Synthesis, Characterization and Photocatalytic Property of Iron(II) Tetrahydroxymethyl Tetra(1,4-dithiin)porphyrazine

S21-095
Kejian Deng (College of Chemistry and Materials, South-Central University for Nationalities, Wuhan city, China)
Synthesis and photocatalytic property of metallo tetra(1,4-dithiin)-porphyrazine derivatives

S24 Sensors

S24-096
Heejoon Ahn (Department of Fiber and Polymer Engineering, Hanyang University, Seoul, Korea)
Electrospinning of Porphyrin/Polyvinyl alcohol Nanofibers

S24-097
Heejoon Ahn (Department of Fiber and Polymer Engineering, Hanyang University, Seoul, Korea)
Patterning of Porphyrins using Electrohydrodynamic Jet Printing

S24-098
Maria Angela Castriciano (ISMN-CNR, Italy), Alessandra Carbone, Ada Saccà, Maria Grazia Donato, Norberto Micali, Andrea Romeo, Giovanna De Luca, Luigi Monsù Scolaro
Influence of casting solvents on optical and sensing features of porphyrin aggregates in Nafion membranes

S24-099
Andreia Sofia Filipe Farinha (Department of Chemistry, University of Aveiro, Aveiro, Portugal), Mário J. F. Calvete, João P. C. Tomé, Filipa A. Almeida Paz, Augusto C. Tomé, Jonathan L. Sessler, José A. S. Cavaleiro
Phthalocyanines as Chromogenic Anion Sensors

S24-100
Gülay Gümüş (Tubitak Marmara Research Center Material Institute, Kocaeli, Turkey), Dilek Erbahar, Ilke Gürol, Mika Harbeck, Emel Musluoglu, Vefa Ahsen, Zafer Ziya Öztürk
Pesticide Detection in Water with QCM Sensors Using Fluoroalkyloxy Substituted Phthalocyanines
S24-101  Chang-Hee Lee (Chemistry, Chun Cheon, Korea), Ka-Young Eom, Bo-Hyang Kim  
Dual Functional, Cyanide-Selective Anion Receptors Based on β-Functionalized Calix[4]pyrroles

S24-102  Chang-Hee Lee (Chemistry Kangwon National University, Chun Cheon, Korea), Jaeduk Yoo, Hwa-Young Yu  
Modified Calix[4]pyrroles as Highly Sensitive Supramolecular Fluorescence Chemosensor for C70

S24-103  Sanjeev Pran Mahanta (School of Chemistry, University of Hyderabad, Hyderabad, India), B. Sathish Kumar, Pradeepa K. Panda  

S24-104  Elzbieta Malinowska (Warsaw University of Technology, Faculty of Chemistry, Department of Microbioanalytics, Warsaw, Poland), Alexey Matushevich, Monika Mroczkiewicz, Mariusz Pietrzak, Lukasz Gorski  
Al(III)- and Zr(IV)- tetra-tert-butyl-Tetraazaporphine as Fluoride-Selective Ionophores for Miniaturized All-Solid-State Potentiometric Sensors

S24-105  José M. Pedrosa (Physical, Chemical and Natural Systems, Pablo de Olavide University, Seville, Spain), Javier Roales, Pedro Castillero, Manuel Cano, Tim H. Richardson  
Optimization of LB Films for Optical Sensing of NO2 Gas Using a Porphyrin in a Calixarene Matrix

S24-106  Javier Roales (Physical, Chemical and Natural Systems, Pablo de Olavide University, Seville, Spain), José M. Pedrosa, Pedro Castillero, Manuel Cano, Tim H. Richardson, Agustín R. González-Elipe  
Volatile Organic Compound Detection Based on Porphyrin Derivatives Bound to TiO2 Porous Films

S24-107  Jonnatan J. Santos (Institute of Chemistry, São Paulo University, São Paulo, Brazil), Sergio H. Toma, Henrique E. Toma, Koiti Araki  
Build-Up and Electrocatalytic Properties of Gold Nanoparticle/TetraPyridylPorphyrin Hybrid Materials

S24-108  Gabriela Vargas-Zuniga (The University of Texas at Austin, Austin, USA), Jonathan Sessler  
Design and Synthesis of Strapped Oligopyrrole Macrocycles for Anion Recognition

S24-109  Lisa Varley (Department of Chemistry, University of Sheffield, Sheffield, United Kingdom), Chris Hunter, Tim Richardson, Jordan Hutchinson  
High Sensitivity Vapour Recognition and Monitoring Using Porphyrin-Calixarene Films
S25 Theoretical and Spectroscopic Studies on Porphyrins, Phthalocyanines, and their Metal Complexes

S25-110
Josefina Awruch (Departamento de Química Orgánica Facultad de Farmacia y Bioquímica Universidad de Buenos Aires, Buenos Aires, Argentina), Myriam E. Rodriguez, Virginia E. Diz, Noelia Lopez Zeballos, Gabriela A. Gauna, María C. García Vior, Lelia E. Dicelio
Photophysics of zinc (II) phthalocyanines in scattering media

S25-111
Tatsuhiko Honda (Osaka University, Suita, Japan), Takamitsu Fukuda, Takahiko Kojima, Nagao Kobayashi, Shunichi Fukuzumi
Crystal Structures and Properties of meso- and Isoindole-Nitrogen-Protonated Phthalocyanines

S25-112
Thomas Kroll (IFW Dresden, Institute for Solid State Research, Dresden, Germany), Roberto Kraus, Mandy Grobosch, Victor Yu. Aristov, Olga V. Molodtsova, Alberto Verdi, Luca Floreano, Martin Knupfer
Determination of the spin and orbital ground state of transition metal phthalocyanines

S25-113
Ying-Chan Lin (Department of Chemistry and the Center for Theoretical and Computational Chemistry, Tromsø, Norway), Abhik Ghosh
Small- vs. Large-Ring Aromaticity: Ring Currents in Pyriporphyrin and Subpyriporphyrin

S25-114
Veronika Novakova (Department of Pharmaceutical Chemistry and Drug Control, Faculty of Pharmacy, Charles University in Prague, Hradec Kralove, Czech Republic), Petr Zimcik
Tetra[6,7]quinoxalinoporphyrazines versus Tetrapyrazinoporphyrazines

S25-115
Ximena Zárate (Universidad Andrés Bello, Santiago, Chile), Eduardo Schott, Ramiro Arratia-Pérez
A DFT/TDDFT Study and Interpretation of Absorption Spectra of Porphyrazines o xo-Titanium Derivatives

S25-116
Kathryn E. Splan (Macalester College, Department of Chemistry, Saint Paul, USA), Peter K. Goldberg
Electronic Absorption and Fluorescence Spectral Characterization of Neutral and Diprotonated Free-base (Arylethynyl)porphyrins
S28 Electron Transfer and Applications

Elizabeth Karnas (The University of Texas at Austin, Department of Chemistry and Biochemistry, Austin, USA), Jonathan Sessler, Sung Kuk Kim, Kenneth Johnson, Zhongping Ou, Min Zhang, Karl Kadish, Kei Ohkubo, Shunichi Fukuzumi

Anion-Binding Dynamics and Electron Transfer Abilities of Cyclo[8]pyrrole

Hirofumi Nobukuni (Institute for Materials Chemistry and Engineering, Fukuoka, Japan), Fumito Tani, Yoshinori Naruta, Yuichi Shimazaki, Hidemitsu Uno, Kei Ohkubo, Tatsuaki Nakanishi, Takahiko Kojima, Shunichi Fukuzumi, Shu Seki, Hayato Sakai, Taku Hasobe

Supramolecular Structures and Photoelectronic Properties of Cyclic Porphyrin Dimers Including Fullerene Derivatives

Veronika Novakova (Department of Pharmaceutical Chemistry and Drug Control, Faculty of Pharmacy, Charles University in Prague, Hradec Kralove, Czech Republic), Petr Zimcik, Kamil Lang, Pavel Chábera, Tomáš Polívka

Ultrafast Intramolecular Charge Separation Responsible for the Quenching of Excited States of Tetrapyrazinoporphyrazines

Atsuro Takai (Department of Material and Life Science, Graduate School of Engineering, Osaka University, Suita, Japan), Mohammed Chkounda, Claude P. Gros, Mohammed Lachkar, Jean-Michel Barbe, Shunichi Fukuzumi

Efficient Photoinduced Electron Transfer in a Porphyrin Tripod-Electron Acceptor Composite

S29 Artificial Photosynthesis

Thanh Nguyen Thi Viet (Institut für Organische Chemie, Bremen, Germany)

Cofacial chlorin dimers of two different symmetries - models of the photosynthetic system
Franz-Peter Montforts
Thursday 8 July, 2010 - Poster Presentation
Tamaya Ballroom F,G,H

S2 Multichromophore Arrays and Complex Assemblies: Defined Oligomers

S02-001

Thomas Bandy (University of Southampton, School of Chemistry, Southampton, United Kingdom), Rachel O’Reilly, Andrew Turberfield, Eugen Stulz
Porphyrid-modified amino-acids for incorporation into mixed-fluorophore supramolecular systems

S02-002

Martin Fechtel (Institute of Organic Chemistry, University of Innsbruck, Innsbruck, Austria), Bernhard Kräutler
Extending the Porphyrid π-System by Fusing with Naphthoquinone Units

S02-003

Andreas Gehrold (Institute of Organic Chemistry, University of Wuerzburg, Wuerzburg, Germany), Torsten Bruhn, Mathias O. Senge, Gerhard Bringmann, Franziska Witterauf, Daniel. C. G. Goetz
Porphyrids Growing Stiff: Steric Hindrance Causing Chirality in Multiporphyrid Arrays

S02-004

Claude P. Gros (Université de Bourgogne ICMUB, UMR 5260, Dijon Cedex, France), Benoît Habermeyer, Atsuro Takai, Maya El Ojaimi, Shunichi Fukuzumi, Jean-Michel Barbe
Synthesis of Bisporphyrid Molecular Tweezers

S02-005

Yu-Seon Kho (Materials Chemistry & Engineering, Seoul, Korea), Kyung-Jin Roh
Synthesis and Photophysical Properties of Er(III) Complex with Dendritic Porphyrids for Optical Amplification

S02-006

Alexander Martynov (A.N. Frumkin Institute of Physical Chemistry and Electrochemistry, Russian Academy of Sciences, Moscow, Russia), Yulia G. Gorbunova, Aslan Yu. Tsivadze, Jean-Pierre Sauvage
Phthalocyridines with lateral phenanthroline-containing rings

S02-007

Amy Shachter (Santa Clara University, Santa Clara, USA)
Ligand Binding to a Tartrate-linked Porphyrid Dimer

S02-008

Hiroki Uoyama (Department of Chemistry and Biology, Graduate School of Science and Engineering Ehime University, Matsuyama, Japan), Mina Furukawa, Toshi Nagata, Tetsuo Okujima, Hiroko Yamada, Hidemitsu Uno
Synthesis of Porphyrid Dimers Fused with Acene Units

S02-009

Zhan Zhang (Department of Chemistry, University of British Columbia, Vancouver, Canada)
Diastereoselective Synthesis of Triple-Stranded Helicate Using a Quaternary-Carbon-Linked Bis(dipyrrromethene) ligand
S4 Surface Chemistry: Porphyrins and Phthalocyanines at Solid-Liquid, Solid-Vacuum and Liquid-Liquid Interfaces

S04-010

Miguel A. García-Sánchez (Chemistry Department, Universidad Autónoma Metropolitana-Iztapalapa, México, Mexico), M.I. Coahuila Hernandez, V. De la Luz Tlapaya, S.R. Tello Solís, F. Rojas, A. Campero

Macroyclic species under modified silica by the sol-gel method

S04-011

Knud Seufert (Physics Department, E20 Technical University Munich, Garching, Germany), Willi Auwärter, Marie-Laure Bocquet, Nicolas Lorente, Alexander Weber-Bargioni, Joachim Reichert, Johannes V. Barth

Combined STM and first-principles study of ligated metalloporphyrins adsorbed on noble metal surfaces

S6 Porphyrins and Modified Porphyrins

S06-012

Bernardo Almeida Iglesias (Department of Fundamental Chemistry, Institute of Chemistry, São Paulo, Brazil), Sérgio H. Toma, Priscila Lalli, Marcos N. Eberlin, Henrique E. Toma, Koiti Araki

Preparation and Spectroscopy & TWIM-MS Characterization of Meso-(4-phenylvinylpyridyl)porphyrins bound to Me or [Ru(bpy)2Cl]+ Groups

S06-013

Edith Khavwajira Amuhaya (Department of Chemistry, Baton Rouge, USA), M. Graca H. Vicente

Synthesis and Studies of Thiophene-substituted Porphyrins

S06-014

Wolfgang Brenner (Department of Chemistry and Pharmacy, University of Erlangen-Nuremberg, Erlangen, Germany), Norbert Jux

Novel Water-Soluble Porphycenes

S06-015

Chuanjiang Hu (College of Chemistry, Chemical Engineering and Materials Science, Soochow University, Suzhou, China), Juanxia Yang, Xiaoxu Kai, Yonggan Yang

The Chiral Crystalline Compound of 5-(8-Ethoxycarbonyl-1-napthyl)-10,15,20-tri phenylporphyrin

S06-016

Aaron Lammer (Department of Chemistry, Illinois State University, Normal, USA), Timothy Lash

Synthesis of Novel Bilin Analogues from Diindenylmethane

S06-017

Timothy Lash (Department of Chemistry, Illinois State University, Normal, USA), Pankaj Jain, Aaron Lammer

Synthesis of Highly Modified Carbaporphyrinoid Systems from Fulvene Dialdehydes

S06-018

Lechoslaw Latos-Grazynski (Department of Chemistry, University of Wroclaw, Wroclaw, Poland), Milosz Pawlicki, Norbert Grzegorzek

A Regioselective Amination and Phosphination of Carbaporpholactone and N-confused Porphyrin
S06-019

**Luigi Monsù Scolaro (Dipartimento di Chimica Inorganica, Chimica Analitica e Chimica Fisica, Messina, Italy)**, Maria Rosaria Plutino, Giovanna De Luca
Organometallic Platinum(II) Complexes Bearing Redox-Active and Chiral Functionalities as Building Block for New Porphyrin Derivatives: Synthesis, Structure and Reactivity

S06-020

**Toru Okawara (Department of Chemistry and Biochemistry, Graduate School of Engineering, Kyushu University, Fukuoka, Japan)**, Masaaki Abe, Hisashi Shimakoshi, Yoshio Hisaeda
Relationships between Proton and Redox of Hydroxyporphycenes

S06-021

**Tetsuo Okujima (Ehime University, Matsuyama, Japan)**, Tasuku Kikawa, Jun Nakamura, Noboru Ono, Haruyuki Nakano, Hiroko Yamada, Hidemitsu Uno
Retro Diels–Alder Approach to the Synthesis of π-Expanded Azuliporphyrins. Porphyrinoid Aromaticity of Azulibenzoporphyrins

S06-022

**Zhongping Ou (Department of Chemistry, Jiangsu University, Zhenjiang, China)**, Yuanyuan Fang, Maxwell Crossley, Karl Kadish
Stepwise protonation of free-base quinoxalinoporphyrins

S06-023

**Christian Preihs (The University of Texas at Austin, Department of Chemistry & Biochemistry, Austin, USA)**, Jonathan Arambula, Jonathan Sessler, Vincent Lynch
Bismuth- and Lead-Texaphyrins. Towards New Potential Alpha-Core Emitters for Radio-Therapy

S06-024

**Rosalie Richards (Department of Chemistry, Physics and Astronomy, Milledgeville, USA)**, Kidus Debesai, Tiffany Shoham, Geovic Jadol
Air-Stable Lithium Porphyrin Intermediates: Pathways to Metallocomplexes

S06-025

**Andrea Romeo (University of Messina, Messina, Italy)**, Giovanna De Luca, Giampaolo Ricciardi, Angela Rosa, Luigi Monsù Scolaro
Detecting Elusive Species: Monoacid Derivatives and Sitting-Atop Complexes of meso-Tetraaryl Porphyrins

S06-026

**Vladimir Roznyatovskiy (Department of Chemistry & Biochemistry, The University of Texas at Austin, Austin, USA)**, Jonathan Sessler
New approach to β-halogenated meso-unsubstituted porphyrins and its use in porphyrin functionalization

S06-027

**Aoife Ryan (Trinity College Dublin, Dublin, Ireland)**, Sabine Horn, Mathias Senge
Synthesis of Porphyrin Oligomers for Applications in Photodynamic Therapy

S06-028

**Ayumi Sato (Department of Chemistry and Biochemistry, Graduated School of Engineering, Kyushu University, Fukuoka, Japan)**, Motoki Toganoh, Hiroyuki Furuta
Synthesis of the double-decker complexes of N-fused porphyrin
S06-029  **Jonathan B. Soffer** *(Drexel University, Department of Chemistry, Philadelphia, USA)*, Reinhard Schweitzer-Stenner
Unraveling the Mystery of Ferricytochrome c: An Investigation into Unfolding Upon Binding to Cardiolipin Containing Phospholipid Liposomes

S06-030  **Jonathan B. Soffer** *(Drexel University, Department of Chemistry, Philadelphia, USA)*
Unraveling the Mystery of Ferricytochrome c: An Investigation into Induced Non-Native Conformational Changes

S06-031  **Shun Sugawara** *(Hiroshima University, Department of Chemistry, Higashihiroshima, Japan)*, Hirata Yusuke, Hashizume Daisuke, Kobayashi Nagao, Muranaka Atsuya, Yamamoto Yohsuke
Synthesis and Properties of 16π Benzofused Porphyrin

S06-032  **Sumito Tokuji** *(Department of Chemistry, Graduate School of Science, Kyoto University, Kyoto, Japan)*, Hideki Yorimitsu, Hiroshi Shinokubo, Atsuhiro Osuka
Porphyrin Dimer Synthesis via Pinacol Coupling-Rearrangement

S06-033  **Artak Tovmasyan** *(Department of Radiation Oncology, Duke University Medical Center, Durham, USA)*, Lida Sahakyan, Henric Panosyan, Robert Ghazaryan
Some Aspects of N-carboxymethylation Reaction of Pyridylporphyrins

S06-034  **Artak Tovmasyan** *(Department of Radiation Oncology, Duke University Medical Center, Durham, USA)*, Robert Ghazaryan, Ines Batinic-Haberle, Rouben Aroutiounian, Gennady Gasparian, Lida Sahakyan, Levon Movsisyan, Nelly Babayan
Synthesis, In Vitro Anticancer Activity and Tissue Specificity of Novel Amphiphilic Ag-Metalloporphyrin

S06-035  **Vanda Vaz Serra** *(Departamento de Química Universidade de Aveiro, Aveiro, Portugal)*, Sónia Pires, Maria Faustino, Maria Neves, José Ferreira, Sílvia Costa, José Cavaleiro
Synthesis of Porphyrin-Rhodamine conjugates with Potential Application as Fluorescent Probes

S06-036  **Haijun Wang** *(Chemistry Department, Louisiana State University, Baton Rouge, USA)*, Celinah Mwakwari
Total Syntheses and Cellular Localization of Isoporphyrins

S06-037  **Shigeru Yamaguchi** *(Department of Chemistry, Graduate School of Science, Kyoto University, Kyoto, Japan)*, Shigeru Yamaguchi, Hiroshi Shinokubo, Atsuhiro Osuka
Synthesis of di-hapto-Porphyrin Ru η²-Complexes

S06-038  **Alexandra Young** *(Department of Chemistry, Illinois State University, Normal, USA)*, Timothy Lash
Synthesis of Porphyrin and Oxophlorin Analogues with Pyrazole Subunits
S7 \( \pi \)-Expanded Porphyrinoids and Corroles: Synthesis and Coordination Chemistry

S07-039

\textbf{Flávio Figueira} (Department of Chemistry, Aveiro University, Aveiro, Portugal), João Tomé, Augusto Tomé, Artur Silva, Jonathan Sessler, José Cavaleiro

Synthesis and Characterization of a Novel Sapphyrin Using an N,N-Disubstituted Bipyrrrole Unit

S07-040

\textbf{Tomohiro Higashino} (Department of Chemistry, Graduate School of Science, Kyoto University, Kyoto, Japan), Takahiro Miura, Shohei Saito, Atsuhiro Osuka

Möbius Antiaromatic Bis-Phosphorus Complex of \([30]\)Hexaphyrin

S07-041

\textbf{Mitsunori Inoue} (Department of Chemistry, Graduate School of Science, Kyoto University, Kyoto, Japan), Sumito Tokui, Kil Suk Kim, Masaaki Suzuki, Jong Min Lim, Jae-Yoon Shin, Dongho Kim, Atsuhiro Osuka

Fusion reactions in \([26]\)Hexaphyrins to exhibit distinct Möbius aromaticity

S07-042

\textbf{Taro Koide} (Department of Chemistry, Graduate School of Science, Kyoto University, Kyoto, Japan), Ko Furukawa, Hiroshi Shinokubo, Atsuhiro Osuka

A Stable Non-Kekulé Singlet Biradicaloid from meso-Free Hexaphyrin(1.1.1.1.1.1)

S07-043

\textbf{Daiki Kuzuhara} (Graduate School of Science and Engineering, Ehime University, Matsuyama, Ehime, Japan), Keiko Yano, Tetsuo Okujima, Hiroko Yamada, Hidemitsu Uno

Synthesis of Benzoporphyrenes

S07-044

\textbf{Jong Min Lim} (Department of Chemistry, Yonsei University, Seoul, Korea), Jae-Yoon Shin, Shohei Saito, Atsuhiro Osuka

Protonated \([4n]\pi \) and \([4n+2]\pi \) Octaphyrins Choose Their Möbius/Hückel Aromatic Topology

S07-045

\textbf{Huynh Thien Ngo} (Molecular Design and Synthesis Department of Chemistry, University of Leuven, Heverlee (Leuven), Belgium), Wouter Maes

High Functionalization Potential Of Meso-Pyrimidinylcorroles

S07-046

\textbf{Gokulnath Sabapathi} (Department of Chemistry & Biochemistry, Graduate School of Engineering, Fukuoka, Japan), Keisuke Yamaguchi, Hiroyuki Furuta

Synthesis, Structure and Coordination Chemistry of Singly N-Confused Hexaphyrin

S07-047

\textbf{Takayuki Tanaka} (Department of Chemistry, Graduate School of Science, Kyoto University, Kyoto, Japan), Naoki Aratani, Atsuhiro Osuka

Synthesis and Characterizations of Triply-Linked Porphyrin-Hexaphyrin Hybrid

S07-048

\textbf{Hillary Tanui} (Chemistry, Louisiana State University, Baton Rouge, USA), M. Graca H. Vicente, Erhong Hao

Synthesis and Properties of Indolyl-dipyrrroles
S07-049  
**Luca Tortora** *(Department of Chemistry, University of Rome “Tor Vergata”, Rome, Italy)*, Roberto Paolesse, Frank R. Fronczek, Kevin M. Smith  
Bifunctional meso-Triarylcorroles

S07-050  
**Xiao Xiao** *(Chemistry Department, University of Houston, Houston, USA)*, Zhongping Ou, Yuan Yuan Fang, Giuseppe Pomarico, Sara Nardis, Roberto Paolesse, Karl Kadish  
Electrochemistry and spectroelectrochemistry of free-base, copper and nickel isocorroles

S07-051  
**Weihua Zhu** *(School of Chemistry and Chemical Engineering, Jiangsu University, Zhenjiang, China)*  
Synthesis, characterization and electrochemistry of 5,10,15-tri(4-chlorophenyl)corroles in nonaqueous media

S07-052  
**Dimitri Sakowa** *(Institut für Anorganische und Analytische Chemie, Technische Universität, Braunschweig, Germany)*, Martin Bröring  
Coordination chemistry of meso-thiacorrole

---

**S8 Phthalocyanines and Related Azaporphyrins**

S08-053  
**Vefa Ahsen** *(Gebze Institute of Technology, Department of Chemistry, Gebze Kocaeli, Turkey)*, Sinem Tuncel, Tamara Basova, Vitaly Kiselev, Vladimir Plyashkevich, Sergei Gromilov, Irina Jushina, Mahmut Durmus, Ayse Gül Gürek  
Synthesis and Film Characterization of Liquid Crystalline Tetraalkylthio- and Tetraalkyloxy-Substituted Lead Phthalocyanines

S08-054  
**Nicola D’Alessandro** *(Department of Science, Pescara, Italy)*, Alessandro Cortese, Manuela Carchesio, Lucia Tonucci, Mario Bressan, Antonino Morvillo  
Photostability and photocatalytic behaviour of the β-tetra(carboxypentyl)phthalocyanines of zinc, ruthenium and platinum

S08-055  
**Kleber Thiago de Oliveira** *(Universidade Federal do ABC-UFABC, CCNH, Santo André, Brazil)*, Anderson Ribeiro Orzari, Nicholas Roberto da Silva Gobo, Osvaldo Antonio Serra, Yassuko Iamamoto  
Synthesis of Phthalocyanines with Low-aggregation: A Model to Prepare Amphiphilic Compounds for PDT Studies

S08-056  
**Olga Dolotova** *(Organic Intermediates and Dyes Institute, Moscow, Russia)*, Oleg Kaliya, Gennady Meerovich, Vladimir Negrimovsky  
Coordination Chemistry Features of the New Substituted Manganese Phthalocyanines

S08-057  
**Tatiana Dubinina** *(Chemical Department, MSU, Moscow, Russia)*, Aleksey Ivanov, Natalia Borisova, Stanislav Trashin, Larisa Tomilova  
Synthesis of planar binuclear phthalocyanine complexes sharing a common naphthalene bridge
S08-058  
**Miguel García** (Universidad Autonoma de Madrid, Madrid, Spain), Miguel García-Iglesias, Juan-José Cid, Purificación Vázquez, Tomás Torres  
Zinc carboxy-phthalocyanines for dye-sensitized solar cells

S08-059  
**Kim Jae Pil** (Dept. of Material Science and Engineering, Seoul, Korea), Woosung Lee, Sim Bum Yuk, Jae Hong Choi, Kim Jae Pil  
Synthesis and Characterization of Highly Soluble Metal-free Phthalocyanines for LCD Black Matrix

S08-060  
**Chun Keun Jang** (Department of Fiber and Polymer Engineering, Hanyang University, Seoul, Korea),  
Jae Yun Jaung, Jong Bok Jung  
Electrochemical Properties of Tetrapyrazinoporphyrazine Derivatives

S08-061  
**Chun Keun Jang** (Department of Fiber and Polymer Engineering, Hanyang University, Seoul, Korea),  
Cheol Jun Song, Jae Yun Jaung  
Study of fluorescent change of tetrapyrazinoporphyrazines

S08-062  
**Arkadiusz Jarota** (Technical University of Lodz, Institute of Applied Radiation Chemistry, Lodz, Poland)  
Low-temperature emission and femtosecond pump – probe studies of aluminium tetrasulfonated phthalocyanine

S08-063  
**Jae Yun Jaung** (Department of Fiber and Polymer Engineering, Hanyang University, Seoul, Korea),  
Chun Keun Jang, Cheol Jun Song  
Synthesis and Optical Characterization of Tetrapyrazinoporphyrazines

S08-064  
**Jae Yun Jaung** (Department of Fiber and Polymer Engineering, Hanyang University, Seoul, Korea),  
Chun Keun Jang, Min Sun Lee  
Synthesis and Optical Characterization of Styryl Group Substituted Macrocycles

S08-065  
**Boris Kharissosv** (Department of Chemistry, Universidad Autonoma de Nuevo Leon, San Nicolas de los Garza, Mexico), Oxana V. Kharissova, Javier Rivera de la Rosa, Miguel Jose Yacaman, Ubaldo Ortiz Mendez  
Non-Substituted Phthalocyanine Nanostructures Obtained Using Activated Metals and Unstable Complexes at Ambient Temperature.

S08-066  
**Yuu Kikukawa** (Department of Chemistry, Graduate School of Science, Tohoku University, Sendai, Japan), Takamitsu Fukuda, Nagao Kobayashi  
Facile Preparation of Soluble Phthalocyanine Precursors

S08-067  
**Eun-Mi Kim** (Department of Textile Engineering, Kyungpook National University, Daegu, Korea),  
Jong Hyun Joo, Jae Hong Choi  
Deodorizing characterization of Iron phthalocyanine derivatives containing carboxylic acid groups on PET fabric
S08-068  
**Eun Mi Kim** (*Department of Textile Engineering, Kyungpook National University, Daegu, Korea*), Jong Hyun Joo, Tae Kyu Park, Jae Hong Choi  
Synthesis of Iron phthalocyanine derivatives containing carboxylic acid groups and their coloration properties

S08-069  
**Jae Pil Kim** (*Dept. of Material Science and Engineering, Seoul, Korea*), Se Hun Kim, Jae Hong Choi  
Synthesis and characterization of octasubstituted metal phthalocyanine dyes with improved solubility

S08-070  
**Elena Makarova** (*Organic Intermediates and Dyes Institute, Moscow, Russia*), Evgeny Lukyanets  
Synthesis of Novel Benzene Fused Pentaazachlorin

S08-071  
**Miroslav Miletin** (*Department of Pharmaceutical Chemistry, Charles University, Faculty of Pharmacy, Hradec Kralove, Czech Republic*), Petr Zimcik, Kamil Kopecky, Veronika Novakova, Petra Hlavenkova  
Solubilisation of Lipophilic Photodynamic Phthalocyanines and Azaphthalocyanines

S08-072  
**Jenni Ranta** (*Department of Chemistry and Bioengineering, Tampere University of Technology, Tampere, Finland*), Helge Lemmetynen, Alexander Efimov  
Synthesis of Phthalocyanine-Fullerene Dyads with Well-Defined Geometry

S08-073  
**Anderson Orzari Ribeiro** (*UFABC, SANTO ANDRE, Brazil*), Kleber Thiago de Oliveira, Nicholas Roberto da Silva Gobo, Osvaldo Antonio Serra, Yassuko Iamamoto  
Synthesis of a symmetric tetraimide-phthalocyanine: a template to prepare water-soluble photosensitizers

S08-074  
**Cheol Jun Song** (*Department of Fiber and Polymer Engineering, Hanyang University, Seoul, Korea*), Jae Yun Jaung, Chun Keun Jang  
Synthesis of Peripheral PEG Substituent Containing Tetrapyrazinoporphyrazine

S08-075  
**Cheol Jun Song** (*Department of Fiber and Polymer Engineering, Hanyang University, Seoul, Korea*), Jae Yun Jaung, Chun Keun Jang, Jong Bok Jung, Min Sun Lee  
Synthesis of Crown-ether Substituted Tetraquinoxalinoporphyrazine

S08-076  
**Lydia Sosa Vargas** (*School of Chemistry, University of East Anglia, Norwich, United Kingdom*), Michael Cook, Andrew Cammidge, Isabelle Chambrier  
Controlled synthesis of octaalkylsubstututed tetrabenzo(aza)porphyrin derivatives

S08-077  
**Shiori Takaishi** (*Department of Chemistry, Graduate School of Science, Tohoku University, Sendai, Japan*), Takamitsu Fukuda, Nagao Kobayashi  
Synthesis and Properties of a Phthalocyanine Dimer Having a Propeller-like Conformation

S08-078  
**Alexander Tolbin** (*Chemical Department, MSU, Moscow, Russia*), Larisa Tomilova, Victor Pushkarev  
The Direct Approaches to Homo and Heteronuclear Clamshell-type Binuclear Phthalocyanines
S08-079

**Stanislav Trashin** *(Chemical Department, MSU, Moscow, Russia)*, Larisa Tomilova, Tatiana Dubinina

Electrochemical reversibility of the first oxidation process of phthalocyanines shared with common naphthalene ring

S08-080

**Evan Trivedi** *(Department of Chemistry, Northwestern University, Evanston, USA)*, Carl M. Blumenfeld, Ying Song, Okanya J. Kokas, F. Christopher Pigge, Michael K. Schultz, Thomas J. Meade, Anthony G.M. Barrett, Brian M. Hoffman

Heteroatom Substituted Porphyrines as Platforms for Multimodal Tumor Imaging and Therapy

S08-081

**Hua Zhu** *(Department of Chemistry, Graduate School of Science, Tohoku University, Sendai, Japan)*, Soji Shimizu, Nagao Kobayashi

Synthesis and Properties of a Novel Phthalocyanine Analogue Bearing a Seven-Membered Ring in the Core

---

**S12 Strategies for Optimizing Porphyrin- and Phthalocyanine-Based PDT and BNCT**

S12-082

**Edith Antunes** *(Chemistry Department, Rhodes University, Grahamstown, South Africa)*, Jonathan Britton, Sharon Moeno, Tebello Nyokong

The behaviour of quantum dots in the presence of phthalocyanines

S12-083

**Josefina Awruch** *(Departamento de Química Orgánica. Facultad de Farmacia y Bioquímica Universidad de Buenos Aires, Buenos Aires, Argentina)*, María C. García Vior, Julieta Marino, Lélia E. Dicelio, Leonor P. Roguín

Photodynamic effect of isosteric water-soluble phthalocyanines on human nasopharynx KB carcinoma cells

S12-084

**Naga Venkata Satya Dinesh Kumar Bhupathiraju** *(Louisiana State University, Department of Chemistry, Baton Rouge, USA)*, M. Graca H. Vicente

Synthesis and Biological Studies of Cobaltacarborane-Porphyrins Conjugated to Different Peptides

S12-085

**Daniel Devillier** *(Louisiana State University Chemistry Department, Baton Rouge, USA)*, Benson G. Ongarora, M. Graça H. Vicente

Synthesis of Amino-functionalized Phthalonitriles and Phthalocyanines

S12-086

**Maria Amparo F. Faustino** *(Department of Chemistry, Aveiro, Portugal)*, V. Vaz Serra, João M. M. Rodrigues, Maria G. P.M. S. Neves, Augusto C. Tomé, José A. S. Cavaleiro, A. Zamarrón, M. C. Iglesias-de la Cruz, A. Juaranz, A. Blázquez, F. Sanz-Rodríguez

Porphyrin amino acid conjugates: Photophysical properties and photodynamic effect in human epithelial cells
S12-087  
**Lau, Janet Ting Fong** *(Department of Chemistry, The Chinese University of Hong Kong, Hong Kong SAR, China)*, Kay, Y. M. Tsang, Pui-Chi Lo, Wing-Ping Fong, Dennis, K. P. Ng  
Novel β-Cyclodextrin-Conjugated Silicon(IV) Phthalocyanines as Efficient Photosensitizers for Photodynamic Therapy

S12-088  
**Leandro Lourenço** *(Department of Chemistry, University of Aveiro, Aveiro, Portugal)*, João Tomé, Maria Domingues, Maria Neves, Tomás Torres, José Cavaleiro  
Synthesis and Caracterization of Novel Phthalocyanine Cyclodextrin Conjugates

S12-089  
**Carlos Monteiro** *(Chemistry Department, University of Coimbra, Coimbra, Portugal)*, Ana Simões, Mariette Pereira  
Synthesis of Fluorinated Amphiphilic Porphyrins and Bacteriochlorins: Ideal Sensitizers for PDT and Markers for Medical Imaging

S12-090  
**Benson Ongarora** *(Chemistry Department, Louisiana State University, Baton Rouge, USA)*, Graca Vicente  
Synthesis and Characterization of Phthalocyanine Bioconjugates for Diagnostic Applications and Treatment of Cancer

S12-091  
**Giampaolo Ricciardi** *(Università della Basilicata - Dipartimento di Chimica, Potenza, Italy)*, Angela Rosa, Daniela Pietrangeli, Sandra Ristori, Anna Salvati, Laura Ciani, Saverio Altieri, Cinzia Ferrari, Silva Bortolussi  
Carboranyl-porphyrazines for Anticancer Therapies

S12-092  
**Sandrina Silva** *(Departamento de Quimica, Universidade de Aveiro, Aveiro, Portugal)*, João Tomé, José Cavaleiro  
Synthesis and Characterization of Novel Water Soluble Photosensitizer for Biomedical Applications

---

**S14 Biological and Medical Effects of Water-Soluble, Cationic Manganese Porphyrins**

S14-093  
**Maria Amparo F. Faustino** *(Department of Chemistry, University of Aveiro, Aveiro, Portugal)*, Anabela Tavares, Carla M.B. Carvalho, Maria G. P.M. S. Neves, João P. C. Tomé, Augusto C. Tomé, José A. S. Cavaleiro, Ângela Cunha, Newton C. M. Gomes, Eliana Alves, Adelaide Almeida  
Potential development of bacterial resistance and bacterial viability recovery after photodynamic therapy

S14-094  
**Zrinka Rajic** *(Department of Radiation Oncology, Duke University Medical Center, Durham, USA)*, Hubert M. Tse, Jon D. Piganelli, Ines Batinic-Haberle  
Mn porphyrins redox-based inactivation of NF-κB transcription factor, a major regulator of inflammatory and immune responses
S14-095

Artak Tovmasyan (Radiation Oncology, Durham, USA), Zrinka Rajic, Huaxin Sheng, Ivan Spasojevic, David S. Warner, Ines Batinic-Haberle
New Mn porphyrins for stroke therapy

S18 Spectroscopic Probes of Electronic Structure for Heme Proteins and Porphyrinoids

S18-096

Mary Grace Galinato (Department of Chemistry, University of Michigan, Ann Arbor, USA), Tatyana Spolitak, David Ballou, Nicolai Lehnert
Elucidating the role of the hydrogen bonding network in Ferric Cytochrome P450cam and corresponding mutants using Magnetic Circular Dichroism spectroscopy

S18-097

Akira Ikezaki (Department of Chemistry, Toho University, School of Medicine, Tokyo, Japan), Jyunpei Ono, Yoshiki Ohgo, Mikio Nakamura
Synthesis and Electronic Structures of Low-Spin Iron(III) meso-Tetraalkylchlorin Complexes

S19 Natural Porphyrinoid Pigments: Structure, Function and Synthesis

S19-098

Markus Ruetz (Institute of Organic Chemistry, University of Innsbruck, Innsbruck, Austria), Sergey Fedosov, Karl Gruber, Christoph Kratky, Bernhard Kräutler
A Blue Corrinoid

S19-099

Keishiro Tahara (Chemistry and Biochemistry Graduate School of Engineering Kyushu University, Fukuoka, Japan), Yoshio Hisaeda
Visible-Light-Driven Reductive Dehalogenation Mediated by Vitamin B12-Rose Bengal System

S19-100

Eui Sang Yoo (Korean Institute of Industrial Technology, Ansan, Gyeonggi-do, Korea)
Optical and mechanical properties of Phthalocyanine based ink for LCD color filter

S19-101

Eui Sang Yoo (Korean Institute of Industrial Technology, Ansan, Gyeonggi-do, Korea)
Polymorphism of phthalocyanine blue pigments according to non-solvent induced crystallization
S23 Heme-Nox Species, both in Proteins and Model Compounds

S23-102

Tim Berto (University of Michigan, Ann Arbor, USA), V.K.K. Praneeth, Nicolai Lehner
Sophisticated Tetraphenylporphyrin Derivatives for the Modeling of the Dinuclear Active Site of Bacterial Nitric Oxide Reductase

S23-103

Lauren Goodrich (University of Michigan, Ann Arbor, USA), Huayang Lee, Nicolai Lehner
Ferric Porphyrin Nitrosyls as Synthetic Models of Fungal P450 Nitric Oxide Reductase (P450nor)

S23-104

Murugaeson Kumar (Baylor University, Waco, USA), Patrick Farmer
Festivus HNO

S23-105

Jeffrey Pavlik (Department of Chemistry and Biochemistry, Notre Dame, USA), Alexander Barabanschikov, Nathan Silvermail, Allen Oliver, Jiyong Zhao, Ercan Alp, Wolfgang Sturhahn, J. Timothy Sage, W. Robert Scheidt
Probing Vibrational Dynamics of [Fe(II)(Porph)(NO)] Derivatives with Nuclear Resonance Vibrational Spectroscopy.

S26 Advances in the Coordination Chemistry, Structure and Reactivity of Porphyrin and Related Macrocycles

S26-106

Yusuke Kinoshita (Department of Bioscience and Biotechnology, Ritsumeikan University, Kusatsu, Japan), Michio Kunieda, Youhei Yamamoto, Hitoshi Tamiaki
Syntheses and Optical Properties of β-Diketonated Chlorophyll Derivative and Its Coordination Compound

S26-107

Anil Kumar (Schulich Faculty of Chemistry, Technion-IIT, Haifa, Israel, Haifa, Israel), Zeev Gross, Israel Goldberg
Structures of Manganese(III) Corroles and the Reactivity of the Corresponding (oxo)Manganese(V) Corroles

S26-108

Jianfeng Li (Department of Chemistry and Biochemistry, Notre Dame, USA), Alexander Barabanschikov, Allen G. Oliver, E. Ercan Alp, Wolfgang Sturhahn, Jiyong Zhao, J. Timothy Sage, W. Robert Scheidt
Vibrational Mode Shifts in a Spin-State Equilibrium--A Temperature-Dependent NRVS Study

S26-109

Anna Mlodzianowsk (Department of Chemistry, The University of Auckland, Auckland, New Zealand), Penelope J. Brothers
Borane corrole and porphyrin complexes
S26-110

**Atif Mahammed** *(Schulich Faculty of Chemistry, Haifa, Israel), Zeev Gross*
Catalytic decomposition of peroxynitrite, superoxide anion radical, and hydrogen peroxide by metallocorroles

S26-111

**Jennifer Petersen** *(Department of Chemistry, Purdue University, West Lafayette, USA), Mahdi Abu-Omar*
Spin State Dependence on Atom Transfer Kinetics of High-Valent Metal Corrole Complexes

S26-112

**Júlio S. Rebouças** *(Departamento de Química, Centro de Ciências Exatas e da Natureza, Universidade Federal da Paraíba, João Pessoa, Brazil), Dayse Carvalho Da-Silva, Paulo J. S. Barbeira, Maria Eliza M. D. de Carvalho, Ynara M. Idemori*
Electrochemical Studies on P450-like Catalysts Based on a Homologous Series of Brominated Mn Porphyrins, Mn(Br$_x$T4CMPP)Cl ($x = 0, 2, 4, 6, or 8$)

S26-113

**Eduardo Schott** *(Departamento de Ciencias Quimica, Universidad Andrés Bello, Santiago, Chile), Ximena Zárate, Ramiro Arratia-Pérez*
Spin-orbit effects on the spectroscopic properties of MO$_2$(cyclam)$^+$ Derivatives (M=Mn, Tc, Re)

---

**S27 Lanthanide Tetrapyrrolic Compounds: Chemistry and Applications**

S27-114

**Kirill Birin** *(A.N. Frumkin Institute of Physical Chemistry and Electrochemistry of Russian Academy of Sciences, Moscow, Russia), Yulia G. Gorbunova, Aslan Yu. Tsivadze*
NMR structural investigation and spectral features of crown-substituted heteroleptic (porphyrinato)(phthalocyaninato) lanthanides

S27-115

**Kirill P. Birin** *(A.N. Frumkin Institute of Physical Chemistry and Electrochemistry of Russian Academy of Sciences, Moscow, Russia), Yulia G. Gorbunova, Aslan Yu. Tsivadze*
Triple-decker (porphyrinato)(phthalocyaninato) lanthanides(III): synthesis, X-Ray structure and conformational dynamics in solution

S27-116

**Victor Pushkarev** *(Chemical Department, MSU, Moscow, Russia), Alexander Tolbin, Stanislav Trashin, Natalia Borisova, Larisa Tomilova*
Stable π-radical rare earth sandwich double-decker complexes with substituted 2-hydroxyphthalocyanine
S30 Metalloporphyrin-Catalyzed Selective Organic Synthesis

S30-117
Georgios Charalambidis (University of Crete, Heraklion, Greece), Christina Staggel, Ioannis D. Kostas, Athanassios G. Coutsolelos
Synthesis of Metal (Ru, Rh, Pd, Pt)/Porphyrin Complexes with Applications in Aqueous Biphasic Catalysis

S30-118
Olga Dolotova (Organic Intermediates and Dyes Institute, Moscow, Russia), Oleg Kaliya, Tatyana Fedorova
Haloperoxidase-like Substitutive & Additive Oxyhalogenation in the Presence of PcFe Derivatives

S30-119
Shirley Nakagaki (Chemistry Department, Universidade Federal do Paraná, Curitiba, Brazil), Kelly Aparecida Dias de Freitas Castro, Guilherme Sippel Machado, Fernando Wypych
Study of the Support Influence in the Efficiency and Selectivity of Catalyst Based on Immobilized Ironporphyrin

S30-120
Shirley Nakagaki (Chemistry Department, Universidade Federal do Paraná, Curitiba, Brazil), Kelly Aparecida Dias de Freitas Castro, Pedro Braga Groszewicz, Fernando Wypych
Surface Modified Layered Compounds – New Materials for the Immobilization of Ironporphyrin Based Catalysts

S30-121
Victor Nemykin (Department of Chemistry & Biochemistry, University of Minnesota Duluth, Duluth, USA)
Catalytic oxidation of organic substrates using iron(III) porphyrins and phthalocyanines as catalysts and hypervalent iodine(III) and iodine(V) compounds as oxidants

S30-122
Francoise Rose-Munch (UMPC Université P6 IPCM, UMR 7201, Paris, France), Emma Gallo, Eric Rose, Nicolas Raoul, Simone Fantauzzi, Lea Bouche, Olivier Lequin
Chiral ansa porphyrins
Author Index

A
Abe, Masaaki, 62
Abouricha, S., 50, 51
Abramczyk, Halina, 30
Abu-Omar, Mahdi, 25, 72
Accorsi, Gianluca, 49
Afanasiev, Pavel, 12, 56
Ahmad, Zubair, 24
Ahn, Heejoon, 56
Ahshen, Vefa, 12, 22, 29, 56, 65
Akada, Misako, 21
Alberto, Roger, 35
Albrett, Amelia M., 34
Alessi, Maria, 30
Alessio, Priscilla, 31
Ali, Hasrat, 29
Ali, Mukhtar, 24
Almeida, Adelaide, 52, 69
Almeida, Maria A., 21, 51, 52, 55, 56, 68, 69
Almeida Iglesias, Bernardo, 61
Almeida Paz, Filipe A., 56
Almeida, Maria A., 21, 51, 52, 55, 56, 68, 69
Alessi, Maria, 30
Alessio, Priscilla, 31
Ali, Hasrat, 29
Ali, Mukhtar, 24
Almeida, Adelaide, 52, 69
Almeida, Maria A., 21, 51, 52, 55, 56, 68, 69
Almeida Iglesias, Bernardo, 61
Almeida Paz, Filipe A., 56
Alonso, Cristina, 17, 21, 51
Alp, Ercan E., 29, 30, 71
Altiere, Lisa, 10, 53
Altiere, Saverio, 69
Alvarez, Leonardo, 12
Alves, Elisa, 21, 69
Amabilino, David B., 33
Amao, Yutaka, 13
Anmhein, Timothy, 40
Amuhaya, Edith Khavwajira, 61
Anding, Bernie, 37
Andrade, Suzana, 47
Andreasonn, Joakim, 7
Anisimov, Alexander, 22
Antonenko, Yuri, 29
Antunes, Edith, 39, 68
Aono, Shigetoshi, 18
Aoyama, Hiroshi, 55
Aparecida Dias de Freitas Castro
Kelly, 73
Apetrei, Constantin, 31
Arai, Yonbon, 46
Araki, Koiti, 57, 61
Arambula, Jonathan, 62
Aratani, Naoki, 16, 64
Ariga, Katsuhiko, 21
Aristov, Victor Yu., 58
Armaroli, Nicola, 49
Arnaut, Luis, 47
Aroui, Vlad, 63
Arroyo-Pérez, Ramiro, 58, 72
Asano, Yoshiaki, 31
Asano, Motoko S., 16
Atsuya, Muranaka, 63
Auwärter, Wilhelm, 38, 61
Awruch, Josefina, 58, 68
Axelrod, Abraham, 10
Aziz, Fakhra, 24
B
Babayan, Nelly, 63
Bae, Byoung-Chan, 46
Baggini-Lovo, Luciana de Paula, 55
Bai, Yun, 38
Balaban, Teodor Silviu, 33
Balasubramaniam, Thiagarajan, 29
Balaz, Milan, 11
Ballav, Nirmalya, 21
Ballou, David, 70
Bandy, Thomas, 11, 47, 48, 50, 60
Baptista, Mauricio S., 10
Barabanschikov, Alexander, 30, 71
Barata, Joana F. B., 52
Barthe, Jean-Michel, 16, 38, 59, 60
Barbeira, Paulo J. S., 72
Barbieri, Giovanna, 52
Bari, Sara Elizabeth, 54
Barrett, Anthony G M., 39, 68
Barroso, Monica, 47
Barth, Johannes V., 61
Basova, Tamara, 65
Batimic-Haberle, Ines, 10, 40, 63, 69, 70
Bear, John L., 49
Benedict, Jason, 10
Bennett, Stephanie M., 10
Benniston, Andrew, 13
Benov, Ludmil, 40
Bergkamp, Jesse, 13
Berkessel, Albrecht, 37
Berton, Robert, 54
Berto, Tim, 71
Bessmer, Miryam, 42
Bhupathiraju, Naga Venkata Satya
Dinesh Kumar, 68
Bian, Yongzhong, 15, 31
Biedermann, Miriam, 48
Bigler, Peter, 24
Birin, Kiriil P., 72
Blazquez, A., 68
Blumenfeld, Carl M., 68
Bocian, David, 29
Boquet, Marie-Laure, 61
Boechi, Leonardo, 30, 54
Boffi, Alberto, 30
Boitrel, Bernard, 42
Bonato, Pierina Sueli, 55
Bond, Maria Luisa, 52
Bongards, Christian, 35
Boon, Elizabeth, 41
Borisova, Natalia, 65, 72
Bortolussi, Silvia, 69
Bottari, Giovanni, 19
Boumaaied, Immene, 50
Boubeta, Fernando, 54
Bouche, Lea, 73
Bouchu, Denis, 12
Bouvet, Marcel, 7
Boyle, Ross, 17, 29
Braga Groszewicz, Pedro, 73
Brennan, Bradley, 7
Brenner, Wolfgang, 61
Bressan, Mario, 65
Bressolier, Philippe, 53
Brewer, Ashley, 11, 48, 50
Bridgewater, James, 7
Briggs, Breeze, 11
Bröckner, Markus, 5
Bröning, Martin, 42, 49, 50, 65
Brueckner, Christian, 16
Bruhn, Torsten, 60
Brun, Daniel, 5
Brunori, Maurizio, 18
Bryant, Donald, 5
Bucher, Christophe, 22
Buchwald, Christian, 35
Buda, Mihai, 22
Bullous, Aaron, 17
Burkhard, Kimberly A., 18
Burmester, Christian, 27
Burns, Jonathan, 11, 48, 50
C
Caballero, Esmeralda, 27
Caifeo, Grazia, 50
Caffa, Attilio, 24
Calitree, Brandon D., 10
Calvet, Mario J. F., 56
Camidge, Andrew, 39, 67
Campero, J., 60, 61
Can, Manuel, 57
Cao, Weigu, 32
Carbone, Alessandra, 56
Carchesio, Manuela, 65
Cardey, Bruno, 41
Cardinali, Francois, 4
Index

International Conference on Porphyrins and Phthalocyanines

Copyright © 2010 Society of Porphyrins & Phthalocyanines

New Mexico, USA - July 4-9, 2010
http://www.icpp-spp.org

Carlson, Hans, 36
Carvalho, Carla M. B., 21, 51, 69
Carvalho, Patricia A., 46
Casati, Nicola, 37
Caselli, Alessandro, 37
Castilero, Pedro, 57
Castriciano, Maria Angela, 15, 21, 48, 50, 52, 55, 56
Cauchon, Nicole, 29
Cavaleiro, José A., 21, 50, 52, 56, 68, 69
Cenini, Sergio, 37
Chabera, Pavel, 59
Chambrier, Isabelle, 67
Chandrashekar, Tavarekere, K., 28
Charalambidis, Georgios, 47, 73
Che, Chi-Ming, 37
Chen, Yihui, 56
Chen, Yanli, 57
Chen, Naisheng, 52
Chen, YiHui, 55
Chen, Min, 56
Chen, Lianqing, 38
Chen, Kuan, 22
Chen, Guidi, 38
Chen, Lianqing, 22, 56
Chen, Min, 38
Chen, Guidi, 22
Chen, Kuan, 10
Cheng, Yuen, 16
Chevance, Soizic, 37
Chiu, Song-Mao, 17
Chkouna, Mohammed, 59
Choe, Wonyoung, 33
Choi, Jae Hong, 66, 67
Chumakow, Denis, 22
Ciani, Laura, 59
Cid, Juan-José, 39, 66
Cisselle, Julie, 28
Clady, Raphael, 16
Claessens, Christian G., 9
Coahuila Hernandez, M.I., 61
Cohen, Seth, 42
Collins, Terry, 12
Collman, James P., 20, 42
Cong, Kebing, 21
Conradie, Jeanet, 34
Constantino, Jose Carlos, 31
Cook, Michael, 32, 38, 39, 67
Corbin, Ian, 52
Cortese, Alessandro, 65
Costa, Silvia, 47, 63
Costa, Liliana, 21
Costa, Roshinee, 42
Costa, Maria Assunta, 52
Coutsolelos, Athanassios G., 47, 73
Crawford, Devyn, 54
Cross, Kara E., 10
Crossley, Maxwell, 16, 25, 26, 53, 62
Cunha, Maria Angela, 21, 51, 52, 68, 69
Czader, Arkadiusz, 8
Czajkowski, Wojciech, 30
Czernuszewicz, Roman S., 8, 30
Céspedes-Guirao, Javier, 19, 39

D
D’Amico, Arnaldo, 7
D’Souza, Francis, 19
D’Souza, Sarah, 39
D’Urso, Alessandro, 11
Dabrowski, Sergio, 54
Daisuke, Hashizume, 23, 63
Dandler, Jörg, 17
Davidenko, Nikolai, 48
Davydov, Roman, 18
Dawson, John, 18, 43
Dedic, Roman, 53
De Bruin, Bas, 37
de Carvalho, Maria Eliza M. D., 72
de Groot, Arjan, 36
De la Luz Tapaya, V., 61
De la Torre, Gema, 4
De Luca, Giovanna, 8, 21, 46, 48, 49
65, 62
de Oliveira, Kleber Thiago, 65, 67
de Rosny, Eve, 36
de Saja, José Antonio, 31
de Souza, Maria C. B.N., 50, 51
de Visser, Samuel, 6
Debesai, Kidus, 62
Debnath, Jayanta, 50, 51
Decreau, Richard, 42
Decurtins, Silvio, 21
Dees, Anne, 38
Deng, Kejian, 22, 24, 56
Deng, Yongming, 48
Denisov, Ilia, 18, 30
Derrick, Matthew, 40
Deshpande, Rohit, 48
Derry, Michael R., 10
Devillier, Daniel, 68
Dewhirst, Mark, 10, 40
Dexheimer, Thomas, 11
Dey, Abhishek, 42
Di Natale, Corrado, 67
Diana, Erica, 4
Dicelio, Virginia E., 58, 68
Diederich, Francois, 21
Diep, Vyacheslav, 47
Diz, Virginia E., 58
Doctorovich, Fabio, 41
Dolotova, Olga, 65, 73
Domingues, Maria, 68, 69
Donato, Maria Grazia, 21, 56
Donzella, Maria Pia, 39
Drain, Charles Michael, 15
Drobyshevsky, Alexander, 40
Droghetti, Enrica, 30
Du, Jing, 18
Dubinina, Tatiana, 31, 65, 68
Dumoulin, Fabienne, 29, 56
Durnus, Mahmut, 29, 65
Durrell, Alec C., 4
Dzik, Wojciech, 37

E
Eaton, Peter, 46
Eberlin, Marcos N., 61
Ebrahim, Mothi M., 51
Eckert, Hans-Jörg, 49
Efimov, Alexander, 67
Egawa, Masafumi, 55
Ehrenberg, Benjamin, 10, 29
Ekins-Daukes, N.J., 16
El Ojaimi, Maya, 60
El-Mashtoly, Samir, 36
Ellestad, George, 11
Enakiev, Yulia, 42
Eom, Ka-Young, 34, 57
Erbar, Dilek, 56
Erbil, W. Kaya, 36
Ercolani, Claudio, 39
Ermilov, Eugeny, 51
Ertürk, Erkan, 37
Estrin, Dario, 54
Ethirajan, Manivannan, 52

F
Ferreira, Vitor, 51
Fabris, Clara, 29
Fabrizi de Biani, Fabrizia, 55
Falber, Alexander, 15
Fang, Yuanyuan, 35, 62, 65
Fantauzzi, Simone, 37, 73
Farinha, Andreia Sofia Filipe, 7, 56
Farmer, Patrick, 36, 41, 71
Farwell, Victoria, 10
Faust, Rüdiger, 27
Faustino, Maria Amparo F., 21, 47, 50, 51, 52, 68, 69
Fechtel, Martin, 60
Fedorova, Tatjana, 73
Fedosov, Sergey, 70
Feis, Alessandro, 30, 49
Feng, Liang, 7
Fernandez-Lazar, Fernando, 19, 39
Fernandez-Ariza, Javier, 27
Ferrari, Cinzia, 69
Ferreira, Diana, 47
Ferreira, José, 47, 51, 63
Ferreira, Gloria C., 23
Figueira, Flavio, 64
Filippini, Daniel, 7
Fiore, Tiziana, 52
Fleischhauer, Jan, 27
Floreano, Luca, 58
Fong, Wing-Ping, 24, 69
Fontecci-Camps, Juan Carlos, 36
Fontenot, Krystal, 48
Ford, Peter, 41
Forrest, Stephen, 47
Fox, Keith, 54
Franco, Ricardo, 15, 23
Frauenkron, Matthias, 37
Frome, Petra, 35
Fronczek, Frank R., 22, 27, 65
Fu, Lei, 42
Fu, Xuefeng, 42
Fu, Zhen, 53
Fujita, Yuichi, 5, 55
Fukasawa, Akira, 31
Fukuda, Takamitsu, 58, 66, 67
Fukuyama, Keiichi, 5
Fukuzumi, Shinichi, 12, 19, 39, 58, 60
Furukawa, Ko, 64
Furukawa, Mina, 60
Furuta, Hiroyuki, 34, 62, 64

G
Gade, Lutz, 21
Gaertner, Wolfgang, 35
Gaier, Abby, 11
Gajovic-Eichelmann, Nenad, 49
Galinato, Mary Grace, 70
Gallo, Emma, 37, 73
Galoppini, Elena, 4
Gao, Yingning, 15
Garcia Vior, Maria C., 58, 68
Garcia-Iglesias, Miguel, 39, 66
Garcia-Sanchez, Miguel A., 61
Garcia, Robert M., 15
Garcia, Miguel, 66
Garcia Costas, Amaya, 5
Gasparian, Gennady, 63
Gatto, Emanuela, 41
Gaudreau, Simon, 50
Gendron, Michael, 7
Ghazaryan, Robert, 63
Ghosh, Abhik, 58, 42
Gilles-Gonzalez, Marie-Alda, 36
Girault, Hubert H., 38
Gisselbrecht, Jean-Paul, 51
Gladin, Mark, 40, 41
Gobbi, Nicholas Roberto da Silva, 65, 67
Goering, Andreas, 38
Goetz, Daniel C. G., 60
Goldberg, Israel, 71
Goldberg, David, 12, 25
Goldstein, Daniel, 54
Gomelsky, Mark, 36
Gomes, Ana T. P. C., 51
Gomes, Maria C., 50, 52, 69
Gomes, Newton C. M., 69
Gonzalez, Veronica, II
Gonzalez-Elipe, Agustin R., 57
Gonzalez-Rodriguez, David, 9
Goodin, David B., 23
Goodrich, Laureen, 41, 71
Gorbunova, Yulia, 31, 42, 60, 72
Gorski, Lukasz, 7, 57
Gorun, Sergiu M., 39
Gosh, Sondatta, 42
Gottfried, Michael, 38
Granet, Robert, 53
Gray, Harry B., 3, 4
Green, Michael T., 18, 54
Grobovsh, Mandy, 58
Gromilov, Sergei, 65
Gros, Claude, 38, 59, 60
Gross, Zeve, 3, 71, 72
Groves, John T., 43
Gruber, Karl, 70
Gryko, Daniel T., 8, 28
Gryko, Dorota, 28
Grzegorzek, Norbert, 61
Götz, Daniel, 51
Guan, Yayan, 56
Guilard, Roger, 20, 42
Guilleme, Julia, 9
Guld, Dirk M., 9, 13, 19, 23, 24, 49
Gupta, Anurag, 52
Gust, Devens, 7, 13, 19
Güntürk, Gülay, 56
Guery, Ayse Gül, 65
Gürol, Ilke, 56

H
Hala, Jan, 53
Habermayer, Benoit, 60
Hackbarth, Steffen, 10
Hada, Masahiko, 24
Hagarman, Andrew, 30
Halime, Zakaria, 42
Hamblin, Michael, 29
Hambourage, Michael, 13
Hanabusa, Kakeru, 19
Hannibal, Luciana, 6
Hannioni, A., 50, 51
Hanson, Kenneth, 47
Hao, Erhong, 21, 29, 64
Haq, Anwar-Ul, 24
Harada, Jiro, 5
Harbeck, Mika, 56
Harriman, Anthony, 13, 19
Hasan, Tayyaba, 17
Hashizume, Daishuke, 23
Hasobe, Taku, 13, 59
Hasséssian, Haroutioun, 29
Hatano, Terutaka, 31
Hatay, Imren, 38
Hayami, Shinya, 23
Hayashi, Shin-ya, 9, 50
Hayashi, Takashi, 18, 33
He, Wenyi, 52
He, Chunmao, 12, 54
Heinecke, Julie, 41
Heinrichs, David, 23, 55
Heo, Jungmi, 21
Hieringer, Wolfgang, 38
Higashino, Tomohiro, 34, 64
Higuchi, Tsunehiko, 37
Higuchi, Yoshinobu, 24
Hildebrandt, Peter, 49
Hill, Jonathan, 20, 21
Hino, Tomoya, 18
Hipp, K. W., 15, 38
Hirota, Shun, 18
Hisaeda, Yoshio, 35, 62, 70
Hlawenkova, Petra, 67
Hoffman, Brian, 18, 68
Hogg, Neil, 41
Hollingsworth, Javorsis, 46
Holmes, Andrea, 11
Holten, Dewey, 29
Holzwarth, Alfred R., 35
Honda, Tatsuhiko, 19, 58
Hopf, Astrid, 51
Hopmann, Kathrin, 41
Horn, Sabine, 62
Horner, John H., 12
Hoshino, Kyuji, 23
Hou, Zong-Sheng, 12
Howes, Barry, 30
Hu, Xiaoke, 52
Hu, Chunjiang, 61
Huang, Ying-Ying, 29
Huang, Liyi, 29
Huang, Jinling, 52
Huang, Zheng, 24
Huang, Xiao, 18
Huang, Venus Y., 27
Huang, Shirley, 36
Hudson, Andrew, 22
Hughes, Jon, 35
Hung, Chen-Hsiung, 34
Hunter, Chris, 57
Harley, Laurence, 11
Hutchinson, Jordan, 57

I
Iamamoto, Yassuko, 55, 65, 67
Idemori, Ynara M., 72
Idowu, Mopelola, 39
Iglesias-de la Cruz, M. C., 68
Ishachi, Moses, 51
Ikekaki, Akira, 22, 30, 70
Imahori, Hiroshi, 4, 28
Ince, Mine, 4
Inokuma, Yasuhide, 9, 50
Inomata, Katsuhiko, 35
Inoue, Haruo, 13, 19
Inoue, Hidenari, 24
Inoue, Mitsunori, 34, 64
Ioanovici, Alexandra, 36
Iordache, Adriana, 22
Iretsikii, Alexei, 41
Isaac, Meden, 10, 53
Isci, Umit, 12, 56
<table>
<thead>
<tr>
<th>Index</th>
</tr>
</thead>
<tbody>
<tr>
<td>International Conference on Porphyrins and Phthalocyanines</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>K</th>
<th>L</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kadi, Karl M., 49, 53, 55, 59, 62, 65</td>
<td>La Mar, Gerd, 54</td>
</tr>
<tr>
<td>Kai, Xiao-xu, 61</td>
<td>Labs, Stefanie, 37</td>
</tr>
<tr>
<td>Kaiser, Patrick, 37</td>
<td>Lachkar, Mohammed, 42, 59</td>
</tr>
<tr>
<td>Kakukara, Yasuaki, 33</td>
<td>Ladomenou, Kalliopi, 47</td>
</tr>
<tr>
<td>Kaliya, Oleg, 65, 73</td>
<td>Lafont, Dominique, 29</td>
</tr>
<tr>
<td>Kano, Koji, 18, 33, 48</td>
<td>Lalli, Priscila, 61</td>
</tr>
<tr>
<td>Karimov, Khasan, 24</td>
<td>Lammer, Aaron, 61</td>
</tr>
<tr>
<td>Karlin, Kenneth, 23</td>
<td>Lang, Kamit, 59</td>
</tr>
<tr>
<td>Karnas, Elizabeth, 59</td>
<td>Lang, Nina, 16</td>
</tr>
<tr>
<td>Katterle, Martin, 49</td>
<td>Langer, Klaus, 10</td>
</tr>
<tr>
<td>Kawai, Tomoji, 16</td>
<td>Langner, Ernst H. G., 27</td>
</tr>
<tr>
<td>Kemling, Jonathan W., 7</td>
<td>Lascola, Christopher, 40</td>
</tr>
<tr>
<td>Kessel, David, 9, 10, 17</td>
<td>Lash, Timothy, 34, 35, 61, 63</td>
</tr>
<tr>
<td>Khan, Shahid, 24</td>
<td>Latos-Grazynski, Lecholas, 34, 61</td>
</tr>
<tr>
<td>Kharissov, Boris, 66</td>
<td>Lau, Janet Ting-Fong, 69</td>
</tr>
<tr>
<td>Kharirossova, Oxana V., 66</td>
<td>Lau, Tai-Chu, 6</td>
</tr>
<tr>
<td>Khin, Chosu, 41</td>
<td>Laws, Gez M., 7</td>
</tr>
<tr>
<td>Kho, Yu-Seon, 46, 47, 60</td>
<td>Le Maux, Paul, 36, 37</td>
</tr>
<tr>
<td>Khoroshutin, Andrey, 22</td>
<td>Le Pape, Laurent, 36</td>
</tr>
<tr>
<td>Khoury, Tony, 16, 53</td>
<td>Lebioda, Lukasz, 18</td>
</tr>
<tr>
<td>Kikawa, Tasuku, 62</td>
<td>Lee, Chang-Hee, 28, 57</td>
</tr>
<tr>
<td>Kikukawa, Yuu, 66</td>
<td>Lee, Chi-Hang, 4</td>
</tr>
<tr>
<td>Kim, Bo-Hyang, 57</td>
<td>Lee, Chi-Hwa, 21, 49</td>
</tr>
<tr>
<td>Kim, Dongho, 13, 64</td>
<td>Lee, Huayang, 41, 71</td>
</tr>
<tr>
<td>Kim, Dongyong, 21</td>
<td>Lee, Hye-Young, 34</td>
</tr>
<tr>
<td>Kim, Eun-Mi, 66, 67</td>
<td>Lee, Ji-Hoon, 53</td>
</tr>
<tr>
<td>Kim, Hee-Joon, 55</td>
<td>Lee, Min Sun, 66, 67</td>
</tr>
<tr>
<td>Kim, Jae Pil, 66, 67</td>
<td>Lee, Young-Tae, 23</td>
</tr>
<tr>
<td>Kim, Kil Suk, 64</td>
<td>Lee, Yu-Rim, 34</td>
</tr>
<tr>
<td>Kim, Se Hun, 67</td>
<td>Lee, Woosung, 66</td>
</tr>
<tr>
<td>Kim, Sung Kuk, 59</td>
<td>Legemah, Magnus, 49</td>
</tr>
<tr>
<td>Kim, Pyosang, 46</td>
<td>Lehner, Nicolai, 41, 70, 71</td>
</tr>
<tr>
<td>Kim-Shapiro, Daniel, 41</td>
<td>Lemmetyinen, Helge, 19, 67</td>
</tr>
<tr>
<td>Kimura, Yuki, 35</td>
<td>Lendzian, Friedhelm, 5</td>
</tr>
<tr>
<td>Kincaid, James, 18, 20, 30</td>
<td>Leng, Xuebing, 27</td>
</tr>
<tr>
<td>Kinoshita, Yusuke, 71</td>
<td>Lequin, Olivier, 73</td>
</tr>
<tr>
<td>Kiselev, Vitaly, 65</td>
<td>Lever, Barry, 8</td>
</tr>
<tr>
<td>Kishi, Takashi, 12</td>
<td>Levin, Natalia, 54</td>
</tr>
<tr>
<td>Kitagawa, Teizo, 36</td>
<td>Lewis, Nathan, 48</td>
</tr>
<tr>
<td>Kitagishi, Hiroaki, 18</td>
<td>Lewtak, Jan, 28</td>
</tr>
<tr>
<td>Kitaniishi, Kenichi, 36</td>
<td>Li, Jianfeng, 71</td>
</tr>
<tr>
<td>Knipp, Markus, 12, 54</td>
<td>Li, Hairong, 29</td>
</tr>
<tr>
<td>Knoblock, Thomas, 10</td>
<td>Li, Peiyi, 13</td>
</tr>
<tr>
<td>Knupfer, Martin, 58</td>
<td>Liao, Wangjun, 17</td>
</tr>
<tr>
<td>Kobayashi, Nagao, 8, 9, 25, 31, 58, 65</td>
<td>Libo, Li, 38</td>
</tr>
<tr>
<td>Kohnke, Franz H., 50</td>
<td>Lim, Dong Min, 64</td>
</tr>
<tr>
<td>Koide, Taro, 64</td>
<td>Lim, Sung H., 7</td>
</tr>
<tr>
<td>Koijima, Takahiko, 19, 58, 59</td>
<td>Lin, Ying-Chan, 38</td>
</tr>
<tr>
<td>Kokas, Okanya J., 68</td>
<td>Lin, Yun, 42</td>
</tr>
<tr>
<td>Kopecky, Kamil, 24, 67</td>
<td>Lin, Zhi, 21</td>
</tr>
<tr>
<td>Kopelman, Raoul, 52</td>
<td>Lindsey, Jonathan, 26, 29, 51</td>
</tr>
<tr>
<td>Kosasanna, Ioannis, 36</td>
<td>Ling, Yan, 41</td>
</tr>
<tr>
<td>Koszarna, Beata, 28</td>
<td>Lippert, Rainer, 38, 51</td>
</tr>
<tr>
<td>Kotova, Elena, 29</td>
<td>Litwinski, Christian, 39</td>
</tr>
<tr>
<td>Kratky, Christoph, 70</td>
<td>Kurtikyan, Tigran, 41</td>
</tr>
<tr>
<td>Kraus, Roberto, 58</td>
<td>Kuzuhara, Daiki, 64</td>
</tr>
<tr>
<td>Kraus, Pierre, 53</td>
<td></td>
</tr>
</tbody>
</table>
INDEX

Liu, Hong, 9, 27, 52
Liu, Jian-Yong, 9, 27
Liu, Jin-gang, 6
Liu, Tengfei, 17
Liu, Tingting, 40
Liu, Wei, 47
Liu, Xiaoyu, 17
Liu, Zhenfeng, 5
Lo, Pui-Chi, 9, 24, 69
Lobach, Anatoliil, 48
Lopez Zevallos, Noelia, 58
Lorente, Nicolas, 61
Lourenco, Leandro, 69
Lu, Guien, 15
Lukat-Rodgers, Gudrun S., 18
Lundstrom, Ingemar, 7
Luo, Yuling, 17
Luo, Rongcheng, 17
Luscombe, Christine, 47
Luthra, Abhinav, 18
Lynch, Vincent, 62
Lyon, Dani, 49

Ma, Li-Hua, 54
Macchi, Piero, 37
Mack, John, 8
Macken, Stephen, 7
MacRobert, Alexander, 29
Maes, Wouter, 64
Mahamed, Atif, 72
Mahanta, Sanjeev Pran, 57
Maitre, Annata, 6
Mak, Piotr, 18, 30
Makarova, Elena, 67
Malheiro, Eliana, 46
Malig, Jenny, 16, 49
Malik, Muhamad, 7
Malinowska, Elzbieta, 7, 57
Mammana, Angela, 11
Mandoj, Federica, 22, 27
Mangalampalli, Ravikanth, 28
Manoharan, Periya Karuppan T., 23
Marbach, Hubertus, 38
Marino-Ochoa, Ernesto, 13
Marino, Julieta, 68
Marletta, Michael, 36
Marti, Marcelo, 54
Martin-Gomis, Luis, 19, 39
Martinez-Diaz, M. Victoria, 21
Martel, Bernard, 52
Marth, Gabriella, 11, 48, 50
Martins, Patricia Riul, 55
Martynov, Alexander, 60
Marzorati, Mattia, 24
Mastroianni, Marco, 22
Matano, Yoshihiro, 28
Matsumoto, Yushi, 18
Matusevich, Alexey, 57
Matysik, Joerg, 35
Mazur, Ursula, 15, 38
Mazzaglia, Antonino, 29, 49, 52
McCay, Alecia, 49
McGuire, Robert, Jr., 11
McIntyre, Neil, 23
McMillin, David, 10, 11
Meade, Thomas J., 68
Medforth, Craig, 15, 47
Medina, Anais, 9
Meerovich, Gennady, 65
Melfi, Patricia, 22
Mendez, Manuel, 38
Micali, Norberto, 15, 21, 49, 56
Miletin, Miroslav, 24, 53, 67
Miller, James E., 15
Millet, Jean-Marc, 12, 56
Minnes, Refael, 10
Miranda, Adelaida, 46
Miura, Takahiro, 64
Miura, Akito, 9
Miyake, Tomohiro, 46
Mizoguchi, Tadashi, 35
Mizuno, Takuya, 12
Mlodzianowska, Anna, 34
Moene-Llocoz, Pierre, 36
Moeno, Sharon, 39, 68
Mohanraj, John, 49
Moir, Anna, 22
Molnar, Alexander, 53
Moldovska, Olga V., 58
Monaco, Regina, 11
Monso Scoiaco, Luigi, 8, 15, 21, 33, 46
Monto, William R., 23
Montforts, Franz-Peter, 35, 59
Monti, Donato, 15
Moore, Ana, 7, 13, 19
Moore, Gary, 13
Moore, Thomas, 7, 13, 19
Moreira, Maria Silvia Monsalves, 55
Morgan, Janet, 52
Mori, Seiji, 23
Mori, Hatsumi, 23
Morita, Sakiko, 55
Morvillo, Antonino, 65
Mosco, Jürgen, 5
Moskvin, Oleg V., 36
Motreff, Nicolas, 42
Moura, Nuno, 51
Mouraviev, Vladimir, 40
Moutet, Jean-Claude, 22
Mowisseyan, Levon, 63
Mroz, Monika, 7, 57
Mroz, Pawel, 29
Muehler, Marc, 35
Muraki, Norifumi, 5

Muranaka, Atsuya, 31
Musluoglu, Emel, 56
Musto, Christopher J., 7
Mwakwari, Celina, 63

N
Na, Kun, 46
Nagano, Shingo, 18
Nagao, Kobayashi, 8, 9, 31, 63, 67
Nagata, Toshi, 60
Nagatani, Hiroshi, 38
Nakabuchi, Takashi, 28
Nakagaki, Shirley, 73
Nakajima, Satoru, 36
Nakamura, Jun, 23, 62
Nakamura, Mikio, 22, 23, 30, 70
Nakanishi, Koji, 11
Nakanishi, Tatsuaki, 19, 59
Nakano, Haruyuki, 62
Nam, Wonwoo, 6, 12, 19
Nardis, Sara, 22, 27, 65
Naruta, Yosinori, 6, 59
Nefedov, Sergey, 42
Negrov, Vladimir, 65
Nemykin, Victor, 27, 72, 73
Neri, Dario, 17
Neves, Maria G. P. M., 21, 50, 52,
M68, 69
Newcomb, Martin, 12
Ney, Saburo, 23
Ng, Kenneth, 52
Ng, Dennis, 9, 24, 27, 69
Ngo, Huynh Thien, 64
Nguyen, ThaoNguyen, 11, 48, 50
Nguyen Thai Viet, Thanh, 59
Ni, Garrett, 47
Nicolas, Irene, 37
Nicoletti, Francesco, 30
Nobukuni, Hirofumi, 59
Noguchi, Masato, 5
Nomata, Jiro, 5, 15
Novakova, Veronika, 24, 58, 59, 67
Noy, Jakub, 11
Nyokong, Tebello, 9, 39, 68

O
O’Reilly, Rachel, 60
Ochirto, Ilaria, 48
Odobel, Fabrice, 13
Oettler, Rene M., 35
Officer, David, 4
Ohoka, Hirozuo, 5
Ohgo, Yoshiki, 23, 30, 70
Ohkubo, Kei, 19, 39, 59
Ohta, Takehiro, 6, 18
Okawara, Toru, 62
Okujima, Tetsuo, 60, 62, 64
Oldfield, Eric, 41
Olea, Charles, 36

Copyright © 2010 Society of Porphyrins & Phthalocyanines

New Mexico, USA - July 4-9, 2010
http://www.icpp-spp.org
P

Oliveira, Oswaldo N. Jr., 31
Oleinick, Nancy, 17
Oliver, Allen G., 30, 71
Ona, Ryunjie, 70
Ono, Noboru, 62
Onoda, Akira, 33
Oohara, Koji, 33
Ortiz de Montellano, Paul R., 36
Ortiz Mendez, Ubaldo, 66
Orzari, Anderson Ribeiro, 65
Osuka, Atsuhiro, 34, 65
Oztrak, Zafer Ziya, 56

P

Pagnon, Georgia, 47
Palmer, Joshua H., 4
Palumbo, Alessandro, 17
Panda, Pradeep K., 21, 57
Pandey, Ravindra, 17, 20, 52, 53
Pandian, Ramasamy, 24
Panosyan, Henric, 63
Paolese, Roberto, 7, 15, 22, 27, 65
Park, Tae Kyu, 67
Park, Bu Bae, 55
Park, Ja-Young, 34
Park, Borami, 53
Parra, Vicente, 7
Parrales, Lenin, 10, 53
Pasternack, Robert F., 48
Patané, Salvatore, 46
Patel, Nayan J., 52
Patterson, Dustin, 13
Pavinatto, Felipe, 31
Pavlik, Jeffrey, 30, 71
Pawl, Milosz, 61
Paz, Filipe A. A., 51
Pedrosa, José M., 56, 57
Pellerito, Claudia, 52
Pellerito, Lorenzo, 52
Peng, Dungeng, 54
Pera, Paula, 52
Pereira, Mariette, 47, 69
Pereira, Ana Mafalda, 21, 51
Pereira, Eulalia, 46
Perissinotti, Laura, 54
Perrina, Benny, 24
Pescitelli, Gennaro, 11
Petersen, Jennifer, 72
Peterson, Joshua, 54
Petrovic, Ana, 11
Pietrangeli, Daniela, 49, 69
Pietrzak, Mariusz, 7, 57
Piganelli, Jon, 10, 40, 69
Pigge, F. Christopher, 68
Pillai, Smitha, 13
Pires, Sonia, 63
Plutino, Maria Rosaria, 62

Plyashkevich, Vladimir, 65
Podust, Larissa M., 36
Polivka, Tomas, 59
Pomarico, Giuseppe, 22, 65
Pranteeth, V.K.K., 71
Preis, Christian, 62
Pretto, Francesca, 17
Preuss, Annette, 10
Price, Mark, 36
Purrello, Roberto, 11
Pushkarev, Victor, 31, 48, 67, 72

Q

Quaresma, Pedro, 46

R

Radilova, Hana, 53
Radivojevic, Ivana, 15
Ragani, Fabio, 37
Ragoussi, M.-E., 4
Rajic, Zrinka, 69, 70
Rakib, E. M., 51
Ramos Fernandes, Edson, 31
Ranta, Jenni, 67
Raoul, Nicolas, 73
Rath, S. P., 22
Reboucas, Julio, 10, 24, 40, 72
Reichert, Joachim, 61
Ren, Qi-Zhi, 72
Rheingold, Arnold, 28
Ribeiro, Anderson Orzari, 67
Ricciardi, Giampaolo, 8, 49, 62, 69
Richards, Rosalie, 62
Richardson, Tim H., 57
Richter-Addo, George B., 6
Rifkind, Joseph M., 23
Rigot, Cyril, 53
Rio, Yannick, 9
Ristori, Sandra, 49, 69
Ritchie, Anne, 10
Rittle, Jonathan, 54
Rivera de la Rosa, Javier, 66
Roales, Javier, 57
Rocha, Joao, 21
Rodgers, Kenton R., 18
Rodrigues, Joao, 47, 68
Rodriguez, Myriam E., 58
Rodriguez-Mendez, Maria Luz, 31
Rodriguez-Morgade, M. Salome, 27
Roguin, Leonor P., 68
Roh, Kyung-Jin, 46, 47, 60
Rohmer, Thierry, 35
Rojas, F., 61
Romeo, Andrea, 8, 15, 21, 48, 50, 52, 55, 56, 62
Rosa, Ieda Lecia V., 55
Rosa, Angela, 8, 49, 55, 62, 69
Rose, Eric, 37, 73
Rose-Munch, Francoise, 73
Rosenstein, Ruth, 54
Rossi, Sara, 27
Rousselin, Yoann, 42
Roznyatovskiy, Vladimir, 62
Röder, Beate, 10, 51, 52
Rudine, Alexander, 47
Rudolf, Emil, 53
Ruetz, Markus, 70
Ruiz-Ganivet, Carolina, 4
Rupnieks, Igor, 23
Ruppert, Romain, 51
Russo, Paul, 46
Ryan, Aofie, 62
Rüdiger, Wolfhart, 5

S

Saad, Naima, 53
Sabapathi, Gokulnath, 64
Sacca, Ada, 56
Sage, J. Timothy, 30, 71
Saggu, Miguel, 5
Sahakyan, Lida, 63
Saito, Shohei, 34, 64
Sakai, Hayato, 59
Samamoto, Keichii, 47
Saleem, Muhammad, 24
Salgado, Maria T., 23
Salvati, Anna, 69
Samec, Zdenek, 38
Samson, Khene, 9
Sanchez-Garcia, David, 51
Sanchez-Molina, Irene, 9
Santana-Marques, M. Graça O., 50
Santos, Jonnatan J., 57
Sanz-Rodriguez, F., 68
Sareh, Sarah, 10, 53
Sargsyan, Gervorg, 11
Sariola, Essi, 46
Sarma, Tridib, 21
Sasaki, Fumika, 46
Sastre-Santos, Angela, 19, 39
Sato, Ayumi, 62
Sauvage, Jean-Pierre, 60
Savasta, Salvatore, 46
Savoie, Huguette, 29
Sayyad, Muhammad, 24
Schaumloeffel, Anu, 51
Scheer, Hugo, 5, 17
Scheidt, W. Robert, 29, 30, 71
Schiro, Lilla, 21
Schmid, Martin, 38
Schmidt, Timothy, 16
Schmilinsky, Irene, 49
Schopfer, Mark, 23
Schore, Neil, 15
Schott, Eduard, 58, 72
Schultz, Michael K., 67, 68
Schweitzer-Stenner, Reinhard, 30, 63
Segawa, Hiroshi, 46
INDEX

Seki, Shu, 59
Senge, Mathias, 16, 29, 51, 60, 62
Serpia, Carlos, 47
Serra, Osvaldo Antonio, 65, 67
Sessler, Jonathan, 20, 33, 56, 57, 59, 62, 64
Setnicka, Vladimir, 11
Seufert, Knud, 61
Shachter, Amy, 60
Shah, Mutabar, 24
Shao, Jenny, 10, 53
Shelnutt, John A., 15, 23, 27, 47
Shen, Jing, 53
Shen, Zhen, 9, 25, 53
Sheng, Wei, 55
Sheng, Xin, 12
Sheng, Huaxin, 40, 70
Sherman, Benjamin, 13
Shibata, Norio, 9
Shimakoshi, Hisashi, 62
Shimazaki, Yuichi, 62
Shimakoshi, Hisashi, 36
Shimizu, Soji, 9, 68
Shimizu, Toru, 36
Shimizu, Akinori, 33
Shi, Bin, 34
Shimizu, Yuta, 6
Shin, Jae-Yoon, 64
Shinokubo, Hiroshi, 16, 63, 64
Shiro, Motoo, 19
Shiro, Yoshisugui, 18
Shoham, Tiffany, 62
Shoji, Sunao, 49
Shokhireva, Tatiana, 54
Sibrian Vazquez, Martha, 10, 52
Siligardi, Giuliano, 50, 54
Silipigni, Letteria, 21
Silva, Fernando C., 51
Silva, Artur M. S., 50, 51, 64,
Silva, Sandrina, 69
Silvernail, Nathan, 71
Simoes, Ana, 47, 69
Simonis, Ursula, 10, 53
Simonneaux, Gerard, 37
Singh, Atul Pratap, 55
Singh, Sunaina, 15
Singleton, Daniel, 11, 48, 50, 54
Sippel Machado, Guilherme, 73
Sivaramakrishnan, Santhosh, 36
Sligar, Stephen, 18, 30
Smith, Kevin, 22, 27, 51, 55, 65
Smith, Aaron, 17, 18
Smulevich, Giulietta, 23, 30
Soares, Ana R. M., 21
Soares, Leonor, 46
Soffer, Jonathan B., 29, 30, 62, 63
Soga, Hisashi, 47
Sol, Vincent, 53
Soldatov, Alexander, 47
Somasundaram, Ramasamy, 6
Soncin, Marina, 29
Song, Jianxin, 16
Song, Yujian, 15
Song, Cheol Jun, 66, 67
Song, Ying, 68
Sono, Masanori, 18
Sorokin, Alexander, 6, 12, 56
Sosa Vargas, Lydia, 67
Spasojevic, Ivan, 10, 40, 70
Spiro, Thomas, 20, 47
Spolitak, Tatiana, 70
Sriniwasan, Alagar, 50
Srithopothangam, Saovakal, 42
Srivatsan, Avinash, 53
St. Clair, Daret, 10
Staggel, Christina, 73
Stefanelli, Manuela, 22
Steinrueck, Hans-Peter, 38
Stelitano, Sara, 46
Stern, Christine, 42
Stillman, Martin, 8, 23, 30, 55
Stoehr, Meike, 21
Strotmeyer, Kai P., 49
Stuehr, Dennis, 6
Stulz, Eugen, 11, 48, 50, 54, 60
Sturhahn, Wolfgang, 30, 71
Su, Bin, 38
Suanzes Pita, Juan Antonio, 19
Suda, Kohji, 37
Sugawara, Shun, 63
Sugimoto, Hiroshi, 18
Sugimoto, Hiroshi, 63
Sukumaran, Dinesh, 10
Sun, Daeyou, 11
Sun, Jie, 22
Surkin, Nicolas, 54
Suslick, Kenneth S., 7
Suzuki, Masaaki, 23, 64
Svoboda, Antonin, 53
Swarts, Jannie C., 27
Swavey, Shawn, 11
T
Tagmatarchis, Nikos, 47
Tahara, Keishiro, 70
Tahir, M. Maroof, 24
Taima, Hidetoshi, 24
Takahashi, Hiroto, 36
Takahashi, Akinori, 33
Takahashi, Shunsuke, 5
Takahashi, Kazuyuki, 23
Takai, Atsuro, 59, 60
Takahashi, Shiomi, 67
Takanami, Toshikatsu, 37
Takula, Kinori, 33
Takula, Bharath R., 7
Tamaki, Mariko, 18
Tamiaki, Hitoshi, 5, 35, 46, 49, 71
Tan, Sidhartha, 40
Tanaka, Atsunari, 36
Tanaka, Ayumi, 5
Tanaka, Hiroki, 16, 64
Tanaka, Takayuki, 64
Tanaka, Yasuo, 34
Tani, Fumito, 59
Taniguchi, Masahiko, 51
Tanui, Hillary, 64
Tashiro, Kentaro, 31
Tavares, Anabela, 69
Tayebjee, Murad, 16
Tello Solis, S.R., 61
Telser, Joshua, 12
Thompson, Mark, 47
Thordarson, Pall, 25, 54
Thornton, Trevor J., 7
Tian, Xian, 47
Tian, Yongming, 47
Tiedemann, Michael, 23, 54, 55
Tjahjoono, Daryono Hadi, 24
Tkachenko, Nikolai, 19
Togano, Motoki, 62
Tokui, Taro, 34, 63, 64
Tolbin, Alexander, 31, 67, 72
Toma, Henrique E., 57, 61
Toma, Sergio H., 57, 61
Tomilova, Larisa, 31, 48, 65, 67, 68,
72
Tomlin, John, 12, 13
Tomé, Augusto C., 7, 21, 50, 52, 56,
64, 68, 69
Tomé, Joao P. C., 21, 52, 56, 68, 69
Tonucci, Lucia, 65
Torres, Tomas, 4, 9, 19, 21, 27, 32, 39,
66, 69
Tortora, Luca, 65
Tousha, Takehiko, 18
Tovmasyan, Artak, 10, 63, 70
Trashin, Stanislav, 65, 68, 72
Trivedi, Evan, 68
Trukhina, Olga, 19
Tsang, Kay Y. M., 69
Tse, Hubert M., 69
Tsivadze, Aslan Yu, 31, 42, 60, 72
Tsuda, Akihiko, 46
Tsujimoto, Akihide, 55
Takatsuki, Yuzuki, 5
Tsurun, Nazim, 4, 35
Turbanu, Milea, 11
Turberfield, Andrew, 60
Turbo, Nicholas, 11

U
Uchiyama, Masanobu, 31
Ueda, Takunori, 18
Uey, Yuichi, 33
Uno, Tadayuki, 59
Ueno, Tadayuki, 59
Ueno, Tadayuki, 62
Urbanova, Marie, 11

Copyright © 2010 Society of Porphyrins & Phthalocyanines

New Mexico, USA - July 4-9, 2010
http://www.icpp-spp.org
Uzhinov, Boris, 22

**V**

Vaid, Thomas, 28
Van Caemelbecke, Eric, 49
van Diggelen, Lisa, 10, 53
van Eldik, Rudi, 6, 12
van Lier, Johan, 29
Van Paauwe, John David, 50
Vargas-Zuniga, Gabriela, 57
Varley, Lisa, 57
Varotto, Alessandro, 15
Vaz Serra, Vanda, 47, 63, 68
Vazquez, Purificacion, 4, 39, 66
Venkatraman, Talaignar, 40
Verde, Cinzia, 30
Verdini, Alberto, 58
Vermaas, Wim, 5
Vermathen, Martina, 24
Vicente, Maria Graca H., 10, 29, 46, 48, 49, 51, 52, 61, 64, 68
Videa, Marcelo, 13
Villari, Valentina, 15, 49
Vitali, Marco, 49
Vujaskovic, Zeljko, 10, 40

**W**

Wacker, Matthias, 10
Wada, Kei, 5
Walker, F. Ann, 23, 54
Walter, Michael, 4, 48
Waluk, Jacek, 8
Wamser, Carl, 4, 47, 48
Wandelt, Klaus, 38
Wang, Haichen, 40
Wang, Haijun, 63
Wang, Haorong, 15
Wang, Hong, 48, 52
Wang, Jian, 52
Wang, Jun, 23
Wang, Qin, 12
Wang, Shouyan, 52
Wang, Yajuian, 56
Wang, Yan, 52
Wang, Yanfang, 53
Wang, Zhongchun, 15
Warner, David, 10, 40, 70
Wasielewski, Michael, 13, 14
Watanabe, Ryo, 23
Watanabe, Kenji, 48
Wayland, Bradford B., 42
Weber-Bargioni, Alexander, 60, 61
Weichsel, Andrzej, 23
Weitman, Hana, 10
Wemmer, David, 36
Wilks, Angela, 18
Wilson, Richard E., 23
Winzenburg, Andreas, 27
Witterauf, Franziska, 60
Woo, Keith, 37
Wätzlich, Denise, 5
Wu, Di, 25
Wypych, Fernando, 73

**X**

Xiao, Xiao, 65
Xie, Jiangming, 17
Xie, Jemin, 54
Xie, Yan, 15
Xie, Yongshu, 21
Xing, Yongheng, 15
Xu, Hu, 9
Xu, Nan, 6
Xu, Xue, 37
Xue, Zhao-Li, 25
Xue, Liang-yu, 17

**Y**

Yakiyama, Masatoshi, 6
Yamada, Hiroko, 28, 60, 62, 64
Yamaguchi, Keisuke, 64
Yamaguchi, Shigeru, 63
Yamaki, Daisuke, 23, 24
Yamamoto, Youhei, 71
Yamashita, Ken-ichi, 16
Yamashita, Tatsuya, 15, 55
Yan, De-Yue, 12
Yan, Xingzhong, 31
Yanai, Tetsuya, 23
Yang, Fei, 5
Yang, Jiajia, 61
Yang, Ying, 42
Yang, Yonggan, 61
Yano, Keiko, 64
Yao, Cheng, 5
Yap, Glenn, 28
Yaseen, Muhammad, 24
Yasuhiro, Akita, 16
Yeung, Sin-Lui, 24
Yohsuke, Yamamoto, 63
Yongming, Tian, 47

**Z**

Zarate, Ximena, 58, 72
Zamarra, A., 51, 52, 68
Zanello, Piero, 55
Zelder, Felix, 35
Zervaki, Galateia E., 47
Zhang, Bingguang, 22, 56
Zhang, Caishun, 15
Zhang, Jiadi, 42
Zhang, Hong, 12, 37, 52
Zhang, Hongjun, 54
Zhang, Lanyaing, 17
Zhang, Min, 59
Zhang, Ming Ran, 47
Zhang, Peter, 16, 37, 41, 58
Zhang, Yong, 41
Zhang, Zhan, 60
Zhang, Zhibing, 52
Zhao, Jiyong, 30, 71
Zhao, Zhihong, 39
Zheng, Gang, 17, 52
Zhiyentayev, Timur, 29
Zhongping, Ou, 53, 54
Zhou, Kai, 35
Zhou, Yang, 31
Zhu, Weihua, 54, 55, 65
Zhu, Junfa, 38
Zhu, Hua, 9, 68
Ziegler, Christopher, 34, 42
Zimcik, Petr, 24, 53, 58, 59, 67
Zimmerman, Jeramy, 47
Zorlu, Yunus, 29
Zucolotto, Valtenzir, 31
### Participants by countries

**Argentina**
Awruch, Josefina  
Bari, Sara Elizabeth  
Doctorovich, Fabio

**Australia**
Crossley, Maxwell J.  
Goldstein, Daniel  
Officer, David  
Thordarson, Pall

**Austria**
Fechtel, Martin  
Kraeutler, Bernhard  
Ruetz, Markus

**Belgium**
Ngo, Huynh Thien

**Brazil**
Baptista, Maurício  
de Oliveira, Kleber Thiago  
Iamamoto, Yassuko  
Iglesias, Bernardo A  
Nakagaki, Shirley  
Rebouças, Julio  
Ribeiro, Anderson Orzari  
Santos, Jonnatan J.  
Serra, Osvaldo

**Canada**
Lever, Alfred  
Ng, Kenneth  
Stillman, Martin J.  
Tiedemann, Michael  
van Lier, Johan  
Zhang, Zhan  
Zheng, Gang

**Chile**
Schott, Eduardo  
Zárate Bonilla, Ximena

**China**
Bian, Yongzhong  
Che, Chi-Ming  
Chen, Lianqing  
Chen, Naisheng  
Deng, Kejian

**Czech Republic**
Dedic, Roman  
Miletin, Miroslav  
Novakova, Veronika  
Urbanova, Marie  
Zimcik, Petr

**Finland**
Ranta, Jenni Johanna  
Sariola, Essi  
Tkachenko, Nikolai

**France**
Barbe, Jean-Michel  
Boitrel, Bernard  
Bouvet, Marcel  
Bucher, Christophe  
de Rosny, Eve  
Gros, Claude  
Guilard, Roger  
Ivancich, Anaëlle  
Krausz, Pierre  
Mollinier, Virginie  
Odobel, Fabrice  
Ringot, Cyril  
Rose, Eric  
Rose, Françoise  
Simonneaux, Gerard  
Sol, Vincent  
Sorokin, Alexander  
Tabard, Alain

**Germany**
Ahrens, Johannes  
Auwärter, Wilhelm  
Balaban, Teodor Silviu  
Berkessel, Albrecht  
Biedermann, Miriam  
Brenner, Wolfgang  
Bröring, Martin  
Faust, Rüdiger  
Gaertner, Wolfgang  
Gehold, Andreas  
Goetz, Daniel  
Gottfried, Michael  
Guldi, Dirk  
Hopf, Astrid  
Jux, Norbert  
Knipp, Markus  
Kroll, Thomas  
Lippert, Rainer  
Malig, Jenny  
Marbach, Hubertus  
Montforts, Franz-Peter  
Moser, Jürgen  
Nguyen Thi Viet, Thanh  
Röder, Beate  
Sakow, Dimitri  
Scheer, Hugo  
Schmilinsky, Irene  
Seufert, Knud  
Speck, Marcus  
van Eldik, Rudi  
Wandelt, Klaus  
Witterauf, Franziska

**Greece**
Charalambidis, Georgios  
Ladomenou, Kalliopi

**India**
Chandrashekar, Tavarekere K.  
Mahanta, Sanjeev Pran  
Mangalampalli, Ravikanth  
Manoharan, Periararuppan T.  
Panda, Pradeepa  
Rath, Sankar  
Srinivasan, Alagar
**Indonesia**
Tjahjono, Daryono Hadi

**Ireland**
Ebrahim, Mothi M.
Ryan, Aoife
Senge, Mathias

**Israel**
Ehrenberg, Benjamin
Gross, Zeev
Kumar, Anil
Mahammed, Atif

**Italy**
Brunori, Maurizio
Castriciano, Maria Angela
d’Alessandro, Nicola
De Luca, Giovanna
Di Natale, Corrado
Donzello, Maria Pia
Gallo, Emma
Jori, Giulio
Mandoj, Federica
Mazzaglia, Antonino
Monsù Scolaro, Luigi
Nardis, Sara
Paolesse, Roberto
Pomarico, Giuseppe
Purrello, Roberto
Ricciardi, Giampaolo
Romeo, Andrea
Rosa, Angela
Smulevich, Giulietta
Tortora, Luca
Turano, Paola

**Japan**
Amao, Yutaka
Aono, Shigetoshi
Arai, Yonbon
Aratani, Naoki
Fujiita, Yuichi
Fukuzumi, Shunichī
Furuta, Hiroyuki
Hada, Masahiko
Harada, Jiro
Hasobe, Taku
Hayashi, Shin-Ya
Hayashi, Takashi
Higashino, Tomohiro
Higuchi, Tsunehiko
Hill, Jonathan P.
Hisaeda, Yoshio
Honda, Tatsuhiko
Ikezaki, Akira
Imahori, Hiroshi
Inomata, Katsuhiko
Inoue, Haruo
Inoue, Mitsunori
Ishikawa, Naoto
Kano, Koji
Kikukawa, Yuu
Kinoshita, Yusuke
Kitagawa, Teizo
Kobayashi, Nagao
Koide, Taro
Kojima, Takahiko
Kuzuhara, Daiki
Mack, John
Matano, Yoshihiro
Miyatake, Tomohiro
Mori, Seiji
Nagatani, Hirohsa
Nakamura, Mikio
Naruta, Yoshinori
Neya, Saburo
Nobukuni, Hirofumi
Nomata, Jiro
Ohgo, Yoshiki
Okawara, Toru
Okujima, Tetsuo
Osuka, Atsushi
Sabapathi, Gokulnath
Sakamoto, Keiichi
Sato, Ayumi
Sato, Wataru
Shibata, Norio
Shimizu, Soji
Shimizu, Toru
Shirō, Yoshitsugu
Shoji, Sunao
Sugawara, Shun
Sugiura, Ken-ichi
Tahara, Keishiro
Takai, Atsuro
Takaishi, Shiori
Takanami, Toshikatsu
Tamiaki, Hitoshi
Tanaka, Ayumi
Tanaka, Takayuki
Tashiro, Kentaro
Tokuji, Sumito
Tsurumaki, Eiji
Uno, Hidemitsu
Uno, Tadayuki
Uoyama, Hiroki
Yamada, Hiroko
Yamaguchi, Shigeru
Yoshizawa, Kazunari
Zhu, Hua

**Korea**
Ahn, Heejoon
Choi, Myung-Seok
Jang, Chun Keun
Jang, Woo-Dong
Jaung, Jae Yun
Jung, Jin-A
Kho, Yu Seon
Kim, Dongho
Kim, Eun-Mi
Kim, Hee-Joon
Kim, Jae Pil
Kim, Pyosang
Kim, Seog K.
Lee, Chang-Hee
Lee, Chi-Hwa
Lee, Ji-Hoon
Lim, Jong Min
Na, Kun
Nam, Wonwoo
Park, Borami
Park, Bu Bae
Roh, Kyung-Jin
Singh, Atul Pratap
Song, Cheol Jun
Yoo, Eui Sang

**Mexico**
García-Sánchez, Miguel Angel
Kharissov, Boris

**Netherlands**
de Bruin, Bas

**New Zealand**
Brothers, Penny
Jones, Leonie
Lyons, Dani
Mlodzianowska, Anna
Pauwue, J. D.

**Norway**
Ghosh, Abhik
Lin, Ying-Chan
Pakistan
Sayyad, Muhammad Hassan

Poland
Abramczyk, Halina
Gryko, Daniel
Jarota, Arkadiusz
Latos - Grazynski, Lechoslaw
Malinowska, Elzbieta
Waluk, Jacek

Portugal
Barata, Joana
Cavaleiro, Jose
de Carvalho, Carla Marisa Brito
Farinha, Andreia Sofia Filipe
Faustino, Maria Amparo F.
Figueiro, Flávio
Franco, Ricardo
Gomes, Ana Teresa Peixoto de Campos
Lourenço, Leandro
Monteiro, Carlos
Moura, Nuno Miguel
Neves, Maria Graça P. M. Silva
Pereira, Ana Mafalda
Pereira, Eulalia
Silva, Sandrina
Tomé, Augusto
Tomé, João
Vaz Serra, Vanda Isabel

Russia
Birin, Kirill
Dolotova, Olga
Dubinina, Tatiana
Gorbunova, Yuliya
Khoroshutin, Andrey
Makarova, Elena
Martynov, Alexander
Pushkarev, Viktor
Tolbin, Alexander Yu
Tomilova, Larisa G.
Trashin, Stanislav
Tsvadze, Aslan

Spain
Amabilino, David
Bottari, Giovanni
Claessens, Christian G.
Fernandez-Lazaro, Fernando
García, Miguel
González Rodríguez, David
Pedrosa, Jose Maria
Roales, Javier
Rodriguez-Mendez, Maria Luz
Rodriguez-Morgade, M. Salome
Sanchez-García, David
Sastre-Santos, Angela
Torres, Tomas
Vázquez, Purificación

Sweden
Filippini, Daniel

Switzerland
Girault, Hubert
Jung, Thomas A.
Lenzin, Thierry
Vermathen, Martina
Zelder, Felix

Taiwan
Diau, Eric
Hung, Chen-Hsiung

Turkey
Ahsen, Vefa
Dumoulin, Fabienne
Gumus, Gulay

United Kingdom
Bandy, Thomas
Barrett, Anthony
Benniston, Andrew
Boyle, Ross
Cambridge, Andrew
Cook, Michael J
de Visser, Sam
Harriman, Anthony
Hudson, Andrew
MacRobert, Alexander
Singleton, Daniel
Sosa Vargas, Lydia
Stulz, Eugen
Varley, Lisa

United States Of America
Abu-Omar, Mahdi
Amuhaya, Edith
Balaz, Milan
Batinic-Haberle, Ines
Berova, Nina
Berto, Tim
Bhupathiraju, Naga Venkata
Satya Dinesh Kumar
Boomer, Jerry
Boon, Elizabeth
Brueckner, Christian
Bryant, Don
Cahill, Paul
Cai, Xiaohui
Chen, Ping
Choe, Wonyoung
Cohen, Seth
Collins, Terry
Collman, James
Czernuszewicz, Roman S.
D’Souza, Francis
Dawson, John
Detty, Michael
Devillier, Daniel
Dewhirst, Mark
Diev, Vyacheslav
Drain, Charles Michael
Duan, Yuxi
Ethirajan, Manivannan
Fang, Willa
Farmer, Patrick
Ferreira, Gloria
Fontenot, Krystal
Ford, Peter
Fromme, Petra
Fu, Zhen
Galaino, Mary Grace
Galoppini, Elena
Geier, G. Richard
Goldberg, David
Gomelsky, Mark
Goodin, David B.
Goodrich, Lauren
Gorun, Sergiu
Gray, Harry
Green, Michael
Groves, John T.
Gupta, Anurag
Gust, Devens
Hamblin, Michael

New Mexico, USA - July 4-9, 2010
http://www.icpp-spp.org
Copyright © 2010 Society of Porphyrins & Phthalocyanines
<table>
<thead>
<tr>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hasan, Tayyaba</td>
</tr>
<tr>
<td>Hipps, K W</td>
</tr>
<tr>
<td>Hollingsworth, Javoris</td>
</tr>
<tr>
<td>Hu, Xiaoke</td>
</tr>
<tr>
<td>Huang, Zheng</td>
</tr>
<tr>
<td>Hurley, Laurence</td>
</tr>
<tr>
<td>Ihachi, Moses</td>
</tr>
<tr>
<td>Isaac, Meden</td>
</tr>
<tr>
<td>Jacobsen, John</td>
</tr>
<tr>
<td>Jinadasa, Raja Gabadage Waruna</td>
</tr>
<tr>
<td>Joshi, Penny</td>
</tr>
<tr>
<td>Kadish, Karl M.</td>
</tr>
<tr>
<td>Karlin, Kenneth</td>
</tr>
<tr>
<td>Karnas, Elizabeth</td>
</tr>
<tr>
<td>Kessel, David</td>
</tr>
<tr>
<td>Kim-Shapiro, Daniel</td>
</tr>
<tr>
<td>Kim, Dong Sub</td>
</tr>
<tr>
<td>Kincaid, James</td>
</tr>
<tr>
<td>Kumar, Murugaeson</td>
</tr>
<tr>
<td>La Mar, Gerd N.</td>
</tr>
<tr>
<td>Lammer, Aaron</td>
</tr>
<tr>
<td>Lascola, Christopher</td>
</tr>
<tr>
<td>Lau, Ho Yi</td>
</tr>
<tr>
<td>Legemah, Magnus</td>
</tr>
<tr>
<td>Lehner, Nicolai</td>
</tr>
<tr>
<td>Li, Jianfeng</td>
</tr>
<tr>
<td>Lindsey, Jonathan</td>
</tr>
<tr>
<td>Marletta, Michael</td>
</tr>
<tr>
<td>Martin, Kathleen</td>
</tr>
<tr>
<td>Matner, Richard</td>
</tr>
<tr>
<td>Mazur, Ursula</td>
</tr>
<tr>
<td>McCall, Alecia</td>
</tr>
<tr>
<td>McMillin, David</td>
</tr>
<tr>
<td>Medforth, Craig</td>
</tr>
<tr>
<td>Mohapatra, Prabhu</td>
</tr>
<tr>
<td>Moore, Ana</td>
</tr>
<tr>
<td>Moore, Thomas</td>
</tr>
<tr>
<td>Nemykin, Victor</td>
</tr>
<tr>
<td>Oleinick, Nancy</td>
</tr>
<tr>
<td>Ongarora, Benson</td>
</tr>
<tr>
<td>Ortiz de Montellano, Paul</td>
</tr>
<tr>
<td>Ou, David</td>
</tr>
<tr>
<td>Pandey, Ravindra k.</td>
</tr>
<tr>
<td>Pandian, Ramasamy</td>
</tr>
<tr>
<td>Patel, Nayan</td>
</tr>
<tr>
<td>Pavlik, Jeffrey</td>
</tr>
<tr>
<td>Petersen, Jennifer</td>
</tr>
<tr>
<td>Piganelli, Jon</td>
</tr>
<tr>
<td>Preihs, Christian</td>
</tr>
<tr>
<td>Rajic, Zrinka</td>
</tr>
<tr>
<td>Remo, Shan’Terika</td>
</tr>
<tr>
<td>Richards, Rosalie A.</td>
</tr>
<tr>
<td>Richter-Addo, George</td>
</tr>
<tr>
<td>Rittle, Jon</td>
</tr>
<tr>
<td>Roznyatovskiy, Vladimir</td>
</tr>
<tr>
<td>Ruder, Zvi</td>
</tr>
<tr>
<td>Rudine, Alexander</td>
</tr>
<tr>
<td>Scheidt, W. Robert</td>
</tr>
<tr>
<td>Schweitzer-Stenner, Reinhard</td>
</tr>
<tr>
<td>Sessler, Jonathan L.</td>
</tr>
<tr>
<td>Shachter, Amy</td>
</tr>
<tr>
<td>Shelnutt, John</td>
</tr>
<tr>
<td>Simonis, Ursula</td>
</tr>
<tr>
<td>Sligar, Stephen</td>
</tr>
<tr>
<td>Smith, Kevin M.</td>
</tr>
<tr>
<td>Soffer, Jonathan B.</td>
</tr>
<tr>
<td>Soldatova, Alexandra</td>
</tr>
<tr>
<td>Solntsev, Pavlo</td>
</tr>
<tr>
<td>Spasojevic, Ivan</td>
</tr>
<tr>
<td>Spiro, Thomas</td>
</tr>
<tr>
<td>Splan, Kathryn</td>
</tr>
<tr>
<td>Stuehr, Dennis</td>
</tr>
<tr>
<td>Suslick, Kenneth</td>
</tr>
<tr>
<td>Swavey, Shawn</td>
</tr>
<tr>
<td>Tan, Sidhartha</td>
</tr>
<tr>
<td>Taniguchi, Masa</td>
</tr>
<tr>
<td>Tanui, Hillary</td>
</tr>
<tr>
<td>Telser, Joshua</td>
</tr>
<tr>
<td>Tian, Yongming</td>
</tr>
<tr>
<td>Tovmasyan, Artak</td>
</tr>
<tr>
<td>Trivedi, Evan</td>
</tr>
<tr>
<td>Uppal, Timsy</td>
</tr>
<tr>
<td>Vaid, Thomas</td>
</tr>
<tr>
<td>van Diggelen, Lisa</td>
</tr>
<tr>
<td>Vargas-Zuniga, Gabriela</td>
</tr>
<tr>
<td>Vermaas, Wim</td>
</tr>
<tr>
<td>Vicente, Maria da Graca</td>
</tr>
<tr>
<td>Walter, Michael</td>
</tr>
<tr>
<td>Wamser, Carl C.</td>
</tr>
<tr>
<td>Wang, Haijun</td>
</tr>
<tr>
<td>Wang, Hong</td>
</tr>
<tr>
<td>Wang, Yanfang</td>
</tr>
<tr>
<td>Warner, David</td>
</tr>
<tr>
<td>Wasielewski, Michael</td>
</tr>
<tr>
<td>Weichsel, Andrzej</td>
</tr>
<tr>
<td>Wilks, Angela</td>
</tr>
<tr>
<td>Woo, Keith</td>
</tr>
<tr>
<td>Xiao, Xiao</td>
</tr>
<tr>
<td>Yan, Xingzhong</td>
</tr>
<tr>
<td>Young, Alexandra</td>
</tr>
<tr>
<td>Zhai, Yubing</td>
</tr>
<tr>
<td>Zhang, Peter</td>
</tr>
<tr>
<td>Zhang, Yong</td>
</tr>
<tr>
<td>Ziegler, Christopher J.</td>
</tr>
</tbody>
</table>
Author Contacts

Abramczyk, Halina
Institute of Applied Radiation Chemistry
Technical University of Lodz
Poland
abramczyk@mitr.p.lodz.pl

Abu-Omar, Mahdi
Chemistry Department
Purdue University
West Lafayette, IN
USA
mabuomar@purdue.edu
phone: 765-494-5302
fax: 765-494-0239

Ahn, Heejoon
Department of Fiber and Polymer Engineering
Hanyang University
Seoul
Korea
ahn@hanyang.ac.kr

Ahrens, Johannes
Philips-Universität Marburg
91766 Weidenbach-Triesdorf
Germany
johannes.ahrens1@gmx.de

Ahsen, Vefa
Department of Chemistry
Gebze Institute of Technology
Gebze
Turkey
ahsen@gyte.edu.tr
phone: 902626053116
fax: 902626053101

Amabilino, David
Institut de Ciencia de Materials de Barcelona
Spain
amabilino@icmab.es
phone: 34 935801853

Amao, Yutaka
Department of Applied Chemistry
Oita University
Oita, Japan
amao@cc.oita-u.ac.jp
phone: +81-(0)97-554-7972
fax: +81-(0)97-554-7972

Amuhaya, Edith
Chemistry Department
Louisiana State University
Baton Rouge LA 70803
USA
eamuhay@tigers.lsu.edu
phone: 225-578-7501

Antunes, Edith
Chemistry Department
Rhodes University
Grahamstown
South Africa
e.antunes@ru.ac.za
phone: +27 46 6038801
fax: +27 46 6225109

Aono, Shigetoshi
Okazaki Institute for Integrative Bioscience
National Institutes of Natural Sciences
Okazaki
Japan
aono@ims.ac.jp
phone: +81-564-59-5575
fax: +81-564-59-5576

Arai, Yonbon
The University of Tokyo
153-8904 Tokyo
Japan
arai@asc.rcast.u-tokyo.ac.jp

Aratani, Naoki
Department of Chemistry
Kyoto University
Kyoto
Japan
aratani@kuchem.kyoto-u.ac.jp
phone: +81-(0)75-753-4007
fax: +81-(0)75-753-3970

Auwärter, Wilhelm
Technical University Munich
Garching
Germany
wilhelm.auwaerter@ph.tum.de

Awruch, Josefin
Departamento de Quimica Organica
Universidad de Buenos Aires
Facultad de Farmacia y Bioquimica
Buenos Aires
Argentina
jawruch@frib.uba.ar
phone: (54) 011-4964-8252
fax: (54) 011-4508-3645

Balaban, Teodor Silviu
Institut fuer Nanotechnologie
Karlsruhe Institute of Technology
Karlsruhe
Germany
silviu.balaban@int.fzk.de
phone: (49) 724-782-6415
fax: (49) 724-782-6434

Balaz, Milan
Department of Chemistry
University of Wyoming
Laramie WY 82071
USA
mbalaz@uwyo.edu
phone: +1 307 766 4330

Bandy, Thomas
School of Chemistry
University of Southampton
SO17 1BJ Southampton
United Kingdom
t.bandy@soton.ac.uk

Baptista, Mauricio
Biochemistry
Chemistry Institute, USP
05508-900 São Paulo
Brazil
baptista@iq.usp.br
phone: (55)11 3093815, 221
fax: (55) 11 3815579

Barata, Joana
Chemistry Department
University of Aveiro
Gafanha Nazaré
Portugal
jbarata@ua.pt
phone: 351934926977

Barbe, Jean-michel
Université de Bourgogne
Dijon
France
Jean-Michel.Barbe@u-bourgogne.fr
phone: (33) 03 80 39 61 19
fax: (33) 03 80 39 61 17

Bari, Sara Elizabeth
INQUMAE/CONICET-Universidad de Buenos Aires
Argentina
bari@qi.fcen.uba.ar

Barrett, Anthony
Chemistry Department
Imperial College
SW7 2AZ London
United Kingdom
agmb.office@imperial.ac.uk
phone: +44 (0) 20 759 45767

Batinic-Haberle, Ines
Radiation Oncology
Duke Univ. Medical Center
Durham NC 27710
USA
ibantic@duke.edu
phone: 919-681-1879
fax: 919-681-7182

Benniston, Andrew
Molecular Photonics Laboratory
Newcastle University
NE1 7RU Newcastle upon Tyne
United Kingdom
a.c.benniston@ncl.ac.uk
phone: 44 191 222 5706
fax: 44 191 222 6929

Berkessel, Albrecht
Cologne University
Cologne
Germany
berkessel@uni-koeln.de
phone: +49 221 4703283
fax: +49 221 4705102

Berova, Nina
Chemistry Department
Columbia University
New York NY
USA
ndb1@columbia.edu
phone: 212 854 3934
fax: 212 9321289

Berto, Tim
Chemistry Department
University of Michigan
48109 Ann Arbor, MI
USA
tiberto@umich.edu
Gottfried, Michael
Lehrstuhl fuer Physikalische Chemie 2
Universitaet Erlangen-Nuernberg
Erlangen
Germany
michael.gottfried@chemie.uni-erlangen.de

Gray, Harry
Caltech
91125 Pasadena CA
USA
hbgray@caltech.edu

Green, Michael
Chemistry Department
Penn State University
University Park PA 16802
USA
mtg10@psu.edu
phone: 814-863-0925
fax: 814-865-2927

Gros, Claude
Université de Bourgogne,
Dijon
France
Claude.Gros@u-bourgogne.fr
phone: (33) 03 80 39 61 12
fax: (33) 03 80 39 61 17

Groves, John T.
Department of Chemistry
Princeton University
Princeton, NJ
USA
jtgroves@princeton.edu

Gryko, Daniel
Institute of Organic Chemistry
Polish Academy of Sciences
Warsaw
Poland
daniel@icho.edu.pl
phone: +44 22 3432036
fax: +44 22 6326681

Guldi, Dirk
Institute for Physical Chemistry
University of Erlangen
Erlangen
Germany
dirk.guldi@chemie.uni-erlangen.de
phone: +49 (0) 9131 8527340
fax: +49 (0) 9131 8528307

Gumus, Gulay
Material Institute
TUBITAK
41470 KOCAELI
Turkey
gulay.gumus@mam.gov.tr
phone: 902626773057
fax: 902626412319

Gupta, Anurag
Roswell Park Cancer Institute
Buffalo, NY 14263
USA
anurag.gupta@roswellpark.org

Gust, Devens
Department of Chemistry and Biochemistry
Arizona State University
Tempe, AZ
USA
gust@asu.edu
phone: 480-965-4547
fax: 480-965-2747

Hada, Masahiko
Chemistry
Tokyo Metropolitan University
192-0397 Tokyo
Japan
hada@tmu.ac.jp
phone: +81-42-677-2554
fax: +81-42-677-2525

Hamblin, Michael
Wellman Center for Photomedicine
Massachusetts General Hospital
Boston MA
USA
hamblin@helix.mgh.harvard.edu

Hao, Erhong
Chemistry Department
Anhui Normal University
241000 Wuhu, Anhui
China
erhonghao@gmail.com

Harada, Jiro
Department of Medical Biochemistry
Kurume University School of Medicine
830-0011 Kurume
Japan
jiro_harada@med.kurume-u.ac.jp
phone: +81-(0)942-31-7544
fax: +81-(0)942-31-4377

Harriman, Anthony
School of Chemistry
Newcastle University
NE1 7RU Newcastle upon Tyne
United Kingdom
anthony.harriman@ncl.ac.uk

Hasan, Tayyaba
Wellman Center for Photomedicine
Massachusetts General Hospital/Harvard Medical School
Boston, MA 2114
USA
thasan@partners.org
phone: 617-726-6996
fax: 617-726-8566

Hasobe, Taku
School of Materials Science
Japan Advanced Institute of Science and Technology (JAIST)
923-1292 Nomi
Japan
t-hasobe@jaist.ac.jp

Hayashi, Shin-ya
Graduate School of Science
Kyoto University
Kyoto
Japan
shayashi@kuchem.kyoto-u.ac.jp
phone: 075-753-4007
fax: 075-753-3970

Hayashi, Takashi
Department of Applied Chemistry
Osaka University
Osaka
Japan
thayashi@chem.eng.osaka-u.ac.jp
phone: +81-(0)6-6879-7928
fax: +81-(0)6-6879-7930

Higuchi, Tsunehiko
Graduate School of Pharmaceutical Sciences
Nagoya City University
467-8603 Nagoya
Japan
higuchi@phar.nagoya-cu.ac.jp
phone: +81-52-836-3435
fax: +81-52-836-3435

Hill, Jonathan P.
WPI-Center for Materials
305-0044 Tsukuba
Japan
Jonathan.Hill@nims.go.jp
phone: 81298604399
fax: 81298604832

Hips, K W
Chemistry & Materials Science
Washington State University
Pullman, WA 99164-4630
USA
hipps@wsu.edu
phone: 5093353033

Hisaeda, Yoshio
Department of Chemistry and Biochemistry
Kyushu University
Fukuoka
Japan
yhisatcm@mail.cstm.kyushu-u.ac.jp
phone: +81-92-802-2826
fax: +81-92-802-2827

Hollingsworth, Javoris
Chemistry Department
Louisiana State University
Baton Rouge LA 70820
USA
jholl15@lsu.edu
phone: 478-335-6278

Honda, Tatsuhiko
Department of Material and Life Science
Osaka Univ.
Suta
Japan
thonda@chem.eng.osaka-u.ac.jp
Jones, Leonie  
Department of Chemistry  
University of Auckland  
1142 Auckland  
New Zealand  
ls.jones@auckland.ac.nz  
phone: 64-9-373-7599  
fax: 64-9-373-7422

Jori, Giulio  
Department of Biology  
University of Padova  
Padova Italy  
giulio.jori@unipd.it  
phone: 39-049-8276333  
fax: 39-049-8276344

Joshi, Penny  
Department of Chemistry  
University of Auckland  
1142 Auckland  
New Zealand  
ls.jones@auckland.ac.nz  
phone: 64-9-373-7599  
fax: 64-9-373-7422

Jung, Jin-A  
Department of Chemistry  
University of Padova  
Padova Italy  
giulio.jori@unipd.it  
phone: 39-049-8276333  
fax: 39-049-8276344

Jung, Thomas A.  
Department of Chemistry and Pharmacy  
Universität Erlangen-Nürnberg  
Erlangen Germany  
norbert.jux@chemie.uni-erlangen.de  
phone: (49) 9131-8522976  
fax: (49) 9131-8526864

Jux, Norbert  
Department of Chemistry and Pharmacy  
Universität Erlangen-Nürnberg  
Erlangen Germany  
norbert.jux@chemie.uni-erlangen.de  
phone: (49) 9131-8522976  
fax: (49) 9131-8526864

Kadish, Karl M.  
Department of Chemistry  
University of Houston  
Houston, TX  77204-5003  
kkadish@uh.edu  
phone: (1) 713-743-2740  
fax: (1) 713-743-2745

Kano, Koji  
Molecular Chemistry and Biochemistry  
Doshisha University  
Kyotanabe Japan  
kkan@mail.doshisha.ac.jp

Karlin, Kenneth  
Chemistry Department  
Johns Hopkins University  
Baltimore MD 21218  
USA  
karlin@jh.edu  
phone: 410-516-8027

Karnas, Elizabeth  
Department of Chemistry and Biochemistry  
The University of Texas at Austin  
Austin, TX  
USA  
ekarnas@mail.utexas.edu  
phone: 6092349946

Kessel, David  
Pharmacology Department  
Wayne State Univ School of Medicine  
Detroit, MI 48201  
USA  
dhkessel@med.wayne.edu  
phone: 313 577 1766

Kharissov, Boris  
Chemistry Department  
Autonomous University of Nuevo Leon  
66450 San Nicolas de los Garza,  
Mexico  
bkhariss@mail.ru  
phone: 52-81-82987496

Kho, Yu Seon  
Materials Chemistry and Engineering  
Konkuk University  
Seoul Japan  
mystara@konkuk.ac.kr

Khoroshutin, Andrey  
Chemistry Department  
M.V. Lomonosov Moscow State University  
Moscow Russia  
khorosh@petrol.chem.msu.ru  
phone: +7(495)9392448  
fax: +7(495)9392448

Kikukawa, Yuu  
Graduate School of Science,  
Tohoku University  
Aoba-ku  
980-8578 Sendai Japan  
op-kikkawa@mail.tains.tohoku.ac.jp

Kim, Dong Sub  
Chemistry and Biochemistry  
University of Texas  
Austin, TX  
USA  
dongsu@mail.utexas.edu

Kim, Dongho  
Department of Chemistry  
Yonsei University  
Seoul Korea  
donh@yonsei.ac.kr  
phone: +82-2-2123-2652  
fax: +82-2-2123-2434

Kim, Hee-Joon  
Kumoh National Institute of Technology  
Gumi Korea  
hjk@kumoh.ac.kr

Kim, Jae Pil  
Seoul National University  
Seoul Korea  
jaepil@snu.ac.kr

Kim, Pyosang  
Department of Chemistry  
Yonsei University  
120-749 Seoul Korea  
terabithia@yonsei.ac.kr  
phone: +82-2-2123-2434

Kim, Seog K.  
Department of Chemistry  
Yeungnam University  
Gyeongsan City Korea  
seogkim@yu.ac.kr  
phone: +82 53 810 2362  
fax: +82 53 815 5412

Kim-Shapiro, Daniel  
Department of Chemical Engineering  
Wake Forest University  
Winston-Salem NC 27109  
USA  
shapiro@wfu.edu

Kincaid, James  
Chemistry Department  
Marquette University  
Milwaukee, WI USA  
james.kincaid@mu.edu  
phone: 4142883539  
fax: 4142887066

Kinoshita, Yusuke  
Department of Bioscience and Biotechnology  
Ritsumeikan University  
Kusatsu Japan  
rbo03061@ed.ritsumei.ac.jp  
phone: 8177-561-4959

Kitagawa, Teizo  
Graduate School of Life science  
University of Hyogo  
678-1297 Kamigouri Japan  
raken-kitagawa@mosk.tylabs.co.jp  
phone: +81-80-1620-8159  
fax: +81-561-63-6302

Knipp, Markus  
Max Planck Institute for Bioinorganic Chemistry  
45470 Mülheim an der Ruhr Germany  
mknappp@mpi-muelheim.mpg.de  
phone: +49-(0)208-306-3581  
fax: +49-(0)208-306-3951

Kobayashi, Nagao  
Department of Chemistry  
Tohoku University, Graduate School of Science  
Sendai Japan  
nagaok@mail.tains.tohoku.ac.jp  
phone: 81-22795-7719  
fax: 81-22795-7719
Nguyen Thi Viet, Thanh  
Faculty of Biology and Chemistry  
University of Bremen  
28359 Bremen  
Germany  
nvthanhkid@gmail.com  
phone: 4.91762E+12

Nobukuni, Hirofumi  
Institute for Materials Chemistry and Engineering  
Kyushu University  
812-8581 Fukuoka  
Japan  
nobukuni@ms.ifoc.kyushu-u.ac.jp  
phone: (+81)92-642-2732  
fax: (+81)92-642-2715

Nomata, Jiro  
Bioagricultural Sciences  
Nagoya University  
464-8601 Nagoya  
Japan  
jironomata@yahoo.co.jp

Nyokong, Tebello  
Department of Chemistry  
Rhodes University  
Grahamstown  
South Africa  
t.nyokong@ru.ac.za  
phone: (27) 46-603-8260  
fax: (27) 46-622-5109

Officer, David  
Intelligent Polymer Research Institute  
University of Wollongong  
NSW 2519 Wollongong  
Australia  
davido@uow.edu.au  
phone: +61-2-42214698  
fax: +61-2-42213114

Okeh, Yoshiki  
Chemistry Department  
School of Medicine, Toho University  
Japan  
yohgo@med.toho-u.ac.jp  
phone: +81-3-3762-4151 x255

Okawara, Toru  
Chemistry and Biochemistry  
Kyushu University  
8190395 Nishi-ku, Fukuoka  
Japan  
t-okawara@ms.hisaeda.cstkyushu-u.ac.jp  
phone: +81-92-802-2830

Okujima, Tetsuo  
Faculty of science  
Ehime University  
790-8577 Matsuyama  
Japan  
tetsuo@chem.sci.ehime-u.ac.jp

Oleinick, Nancy  
Radiation Oncology and Biochemistry  
Case Western Reserve University  
Cleveland, OH 44106-4942  
USA  
nancy.oleinick@case.edu  
phone: 216-368-1117  
fax: 216-368-1142

Ongarora, Benson  
Chemistry Department  
Louisiana State University  
Baton Rouge LA  
USA  
Bongar1@Tigers.Lsu.Edu  
Phone: 225-578-7501  
Fax: 225-578-3458

Ortiz De Montellano, Paul  
Pharmaceutical Chemistry  
University of California San Francisco  
San Francisco CA 94158-2517  
USA  
Ortiz@Cgl.Ucsf.edu  
Phone: 415 476-2903

Ou, David  
Department of Chemistry  
University of Houston  
Houston, TX 77204-5003  
USA  
fjoreea@gmail.com  
phone: 7134990858

Ou, Zhongping  
School of Chemistry and Chemical Engineering  
Jiangsu University  
212013 Zhenjiang  
China  
zou2003@yahoo.com

Pauwae, JD  
Chemistry Department  
University of Auckland  
1001 Auckland  
New Zealand  
jdpauwae@gmail.com  
phone: 2115010652

Panda, Pradeepa  
Department of Chemistry  
University of Hyderabad  
Hyderabad  
India  
pkpsc@usobyd.ernet.in  
phone: 914023134828  
fax: 914023012460

Pandey, Ravindra K.  
Department of Radiation Biology  
Roswell Park Cancer Institute  
Buffalo, NY  
USA  
ravindra.pandey@roswellpark.org  
phone: (1) 716-845-3203 or  
fax: (1) 716-845-8920

Pandian, Ramasamy  
Internal Medicine  
Ohio State University  
Columbus OH  
USA  
pandian.6@osu.edu  
phone: 614-487-0752  
fax: 614-292-8454

Paolese, Roberto  
Scienze e Tecnologie Chimiche  
University of Rome Tor Vergata  
Rome  
Italy  
roberto.paolese@uniroma2.it  
phone: 390672594752  
fax: 390672594338

Park, Borami  
Department of Chemistry  
Yeungnam University  
Gyeongsan City  
South Korea  
ami1201@hanmail.net

Patel, Nayan  
Roswell Park Cancer Institute  
Buffalo, NY 14263  
USA  
nayan.Patel@RoswellPark.org  
phone: 716-845-8920

Pavlik, Jeffrey  
Chemistry and Biochemistry  
University of Notre Dame  
Notre Dame, IN 46556  
USA  
jpavlik@nd.edu  
phone: 574-631-6816  
fax: 571-631-6652

Pedrosa, Jose Maria  
Physical, Chemical and Natural Systems  
Pablo de Olavide University  
41013 Seville  
Spain  
jmpedpoy@upo.es  
phone: +34 954 34 95 37  
fax: +34 954 34 98 14

Pereira, Ana Mafalda  
Chemistry  
University of Aveiro  
Departamento de Quimica  
Campus de Santiago  
Aveiro  
Portugal  
mafaldapereira@ua.pt  
phone: 351914811346
Shelnutt, John  
Advanced Materials Laboratory  
Sandia National Laboratories  
Albuquerque NM  
USA  
jasheln@unm.edu  
phone: 505-272-7160  
fax: 505-272-7077  

Shen, Zhen  
Department of Chemistry  
Coordination Chemistry Institute  
Nanjing  
China  
zshen@nju.edu.cn  
phone: +86-25-8368-6679  
fax: +86-25-8331-4502  

Shibata, Norio  
Department of Frontier Materials  
Nagoya Institute of Technology  
466-8555 Nagoya  
Japan  
noshiba@nitech.ac.jp  
phone: +81-52-735-7543  
fax: +81-52-735-7543  

Shimizu, Soji  
Department of Chemistry  
Tohoku University  
Sendai  
Japan  
ssoji@mail.tains.tohoku.ac.jp  
phone: +81-22-795-7728  
fax: +81-22-795-7728  

Shimizu, Toru  
Institute of Multidisciplinary Research for Advanced Materials  
Tohoku University  
980-8577 Sendai  
Japan  
shimizu@tagen.tohoku.ac.jp  
phone: 81-22-217-5604  
fax: 81-22-217-5604  

Shiro, Yoshitsugu  
RIKEN SPring-8 Center  
679-5148 Hyogo  
Japan  
yshiro@riken.jp  
phone: +81-791-58-2817  
fax: +81-791-58-18  

Shoji, Sunao  
Department of Bioscience and Biotechnology  
Ritsumeikan University  
Kusatsu  
Japan  
r0009065@ed.ritsumei.ac.jp  
phone: 8177-561-4959  

Silva, Sandrina  
Quimica  
Universidade de Aveiro  
Campus de Santiago  
Aveiro  
Portugal  
sandsilva@hotmail.com  
phone: 351966792623  

Simonis, Ursula  
Department of Chemistry and Biochemistry  
San Francisco State University  
San Francisco CA  
USA  
uschi@sfsu.edu  
phone: (1) 415-338-1656  
fax: (1) 415-338-2584  

Simonneaux, Gerard  
Department of Chemistry  
Campus de Beaulieu, Université de Rennes 1  
Rennes  
France  
gerard.simonneaux@univ-rennes1.fr  
phone: 33 (0)2 23 23 62 85  
fax: 33 (0)2 23 23 56 37  

Singh, Atul Pratap  
Kumoh National Institute of Technology  
Gumi  
Korea  
atulpitid@gmail.com  

Singleton, Daniel  
School of Chemistry  
University of Southampton  
Southampton  
United Kingdom  
ds504@soton.ac.uk  

Smith, Kevin M.  
Department of Chemistry  
Louisiana State University  
Baton Rouge - LA  
USA  
kmsmith@lsu.edu  
phone: (1) 225-578-7442  
fax: (1) 225-578-3458  

Smulevich, Giulietta  
Chemistry  
Università di Firenze  
Sesto Fiorentino (FI)  
Italy  
giulietta.smulevich@unifi.it  
phone: +39 055 4573083  
fax: +39 055 4573077  

Sofer, Jonathan B.  
Department of Chemistry  
Drexel University  
Philadelphia PA 19104  
USA  
jb45@drexel.edu  
phone: 2154503838  

Soldatova, Alexandra  
Department of Chemistry  
University of Washington  
Seattle WA 98195  
USA  
alexans@u.washington.edu  

Solntsev, Pavlo  
Chemistry & Biochemistry  
University of Minnesota Duluth  
Duluth MN 55812  
USA  
pvastese@d.umn.edu  
phone: +1 (218) 7267260  
fax: +1 (218) 7267394  

Song, Cheol Jun  
Department of Fiber and Polymer Engineering  
Hanyang University  
Seoul  
Korea  
cutesong@hanyang.ac.kr  
phone: +82-2-2220-0492  
fax: +82-2-2220-4092  

Song, Yujiang  
Dalian Institute of Chemical Physics, Chinese Academy of Sciences  
110623 Dalian  
China  
yjsong@dicp.ac.cn  
phone: 011-86-411-84379170  
fax: 011-86-411-84379170  

Sorokin, Alexander  
IRCELYON  
Villeurbanne  
France  
avector.sorokin@ircelyon.univ-lyon1.fr  

Soseyov, Ivan  
Department of Medicine  
Duke University Medical Center  
Durham NC  
USA  
spaso001@mc.duke.edu  
phone: (1) 919-684-8311  
fax: (1) 919-684-8380  

Speck, Marcus  
Department fuer Chemie und Pharmazie  
FAU Erlangen-Nuremberg  
Erlangen  
Germany  
marcus.speck@chemie.uni-erlangen.de  
phone: 91318522538  
fax: 9138526864  

Spiro, Thomas  
Chemistry Department  
University of Washington  
Seattle WA 98195  
USA  
spirot@uw.edu  
phone: 206-685-4964
Splan, Kathryn  
Chemistry Department  
Macalester College  
St. Paul MN  
USA  
splank@macalester.edu

Sriniwasan, Alagar  
School of Chemical Sciences  
National Institute of Science Education and Research  
India  
srini@niser.ac.in  
phone: 916742304087

Stillman, Martin J.  
Department of Chemistry  
University of Western Ontario  
London, Ontario  
Canada  
martin.stillman@uwo.ca  
phone: (1) 519-661-3821  
fax: (1) 519-661-3022

Swavey, Shawn  
Chemistry Department  
University of Dayton  
Dayton OH 45469-2357  
USA  
shawn.swavey@notes.udayton.edu  
phone: 937-229-3145

Tabard, Alain  
Université de Bourgogne,  
Dijon,  
France  
Alain.Tabard@u-bourgogne.fr  
phone: 33 3 80 39 61 27  
fax: 33 3 80 39 61 17

Tahara, Keishiro  
Kyushu University  
Motooka  
Fukuoka  
Japan  
tahara@ms.hisaeda.cstm.kyushu-u.ac.jp

Takai, Atsurow  
Department of Material and Life Science  
Osaka University  
Osaka  
Japan  
atakai@chem.eng.osaka-u.ac.jp

Takaishi, Shiori  
Department of Chemistry  
Graduate School of Science, Tohoku University  
980-8578 Sendai  
Japan  
s-takaishi@mail.tains.tohoku.ac.jp

Tanaka, Takayuki  
Science  
Kyoto University  
Kyoto  
Japan  
taka@kuchem.kyoto-u.ac.jp  
phone: 075-753-4007  
fax: 075-753-3970

Taniguchi, Masa  
Chemistry Department  
North Carolina State University  
Raleigh NC 27695-8204  
USA  
mttanig@yahoo.com  
phone: 9195132966  
fax: 9195132830

Tanui, Hillary  
Chemistry  
LSU  
Baton Rouge LA  
USA  
ttanui@tigers.lsu.edu  
phone: 225 578 4966  
fax: 225 578 3458

Tashiro, Kentaro  
International Center for Materials Nanoarchitectonics  
305-0044 Tsukuba  
Japan  
TASHIRO.Kentar0@nims.go.jp  
phone: +81-29-851-3354-8429  
fax: +81-29-860-4706

Telser, Joshua  
Biological, Chemical and Physical Sciences  
Roosevelt University  
Chicago IL  
USA  
jtelser@roosevelt.edu  
phone: 1 312 341 3687  
fax: 1 312 341 4358

Thordarson, Pall  
School of Chemistry  
The University of New South Wales  
Sydney  
Australia  
p.thordarson@unsw.edu.au  
phone: +61-(0)2-9385-4478  
fax: +61-(0)2-9385-6141

Tian, Yongning  
Advanced Materials Laboratory  
University of New Mexico  
Albuquerque NM 87106  
USA  
aic00@unm.edu  
phone: 505-922-5268

Tiedemann, Michael  
Department of Chemistry  
The University of Western Ontario  
London  
Canada  
m.tiedema@uwo.ca  
phone: 519-661-2111 x86358
Tjahjono, Daryono Hadi
School of Pharmacy
Bandung Institute of Technology
Bandung
Indonesia
daryonohadi@fa.itb.ac.id
phone: 62-81-22146348
d: 62-22-2504852

Tkachenko, Nikolai
Department of Chemistry and Bioengineering
Tampere University of Technology
Tampere
Finland
nikolai.tkachenko@tut.fi
phone: +358 40 748 4160
d: +358 3 3115 2108

Tolbin, Alexander Yu
Department of Chemistry
Moscow State University
Moscow
Russia
tom@org.chem.msu.ru
phone: +7(495) 939 1243
d: +7(495) 939 0290

Tomé, Augusto
University of Aveiro
3810-193 Aveiro Aveiro
Portugal
actome@ua.pt

Tomé, João
Department of Chemistry
University of Aveiro
Santiago Campus
3810-193 Aveiro
Portugal
jtom@ua.pt
phone: 351234370342
d: 351234370084

Tomilova, Larisa G.
Department of Chemistry
Moscow State University
Moscow
Russia
tom@org.chem.msu.ru
phone: +7(495) 939 1243
d: +7(495) 939 0290

Tommaso, Carofiglio
Chemical Sciences
University of Padua
Padua
Italy
tommaso.carofiglio@unipd.it
phone: 39(0)49 8275670
d: 39(0)49 827 5239

Tomohiro, Higashino
Department of Chemistry,
Kyoto University
Kyoto
Japan
higashino@kuchem.kyoto-u.ac.jp
phone: +81-(0)75-753-4007
d: +81-(0)75-753-3970

Torres, Tomas
Departamento de Quimica Organica
Universidad Autonoma de Madrid
Blanco
Madrid
Spain
tomas.torres@uam.es
phone: (34) 91-497-4151
d: (34) 91-497-3966

Tortora, Luca
Department of Chemistry
University of Rome “Tor Vergata”
133 Rome
Italy
luca.tortora@uniroma2.it
phone: 390672594765
d: 390672594338

Tsivadze, Aslan
Institute of Physical Chemistry
Russian Academy of Science
Moscow
Russia
tsvi@physche.ac.ru
phone: +7 495-952-0462
d: +7 495-952-0462

Turano, Paola
CERM
University of Florence
50019 Sesto Fiorentino
Italy
turano@cerm.unifi.it
phone: 390554574276
d: 390554574253

Uno, Hidemitsu
Department of Chemistry and Biology,
Graduate School of Science and Engineering
Ehime University
790-8577 Matsuyama
Japan
uno@dpc.ehime-u.ac.jp
phone: +81-89-927-9610
d: +81-89-927-9610

Uno, Tadayuki
Graduate School of Pharmaceutical Sciences
Osaka University
565-0871 Suita
Japan
unot@phs.osaka-u.ac.jp
phone: +81-6-6879-8205
d: +81-6-6879-8209

Uppal, Timsy
Chemistry Department
Louisiana State University
Baton Rouge LA
USA
tuppal2@tigers.lsu.edu
phone: 225-578-7501
d: 225-578-3463

Urbanova, Marie
Department of Physics and Measurements
Institute of Chemical Technology, Prague 6
Czech Republic
marie.urbanova@vscht.cz
phone: +420 22044 3036
d: +420 22044 4334

Vaid, Thomas
Chemistry Department
University of Alabama
Tuscaloosa AL 35487
USA
tpvaid@ua.edu
phone: 205-348-8454

van Diggelen, Lisa
Chemistry & Biochemistry
San Francisco State University
San Francisco CA 94132
USA
lyv@sfsu.edu
phone: 415 794-4843
van Eldik, Rudi  
Chemistry and Pharmacy  
University of Erlangen-Nürnberg  
Erlangen  
Germany  
vaneldik@chemie.uni-erlangen.de  
phone: +49-9131-8527350  
fax: +49-9131-8527387

van Lier, Johan  
Nuclear Medicine and Radiobiology  
Université de Sherbrooke  
J1H 5N4 Sherbrooke  
Canada  
johan.e.vanlier@usherbrooke.ca

Vargas-Zuniga, Gabriela  
Chemistry and Biochemistry  
University of Texas at Austin  
Austin TX  
USA  
givz@mail.utexas.edu  
phone: (512) 471-6674

van Eldik, Rudi  
Chemistry and Pharmacy  
University of Erlangen-Nürnberg  
Erlangen  
Germany  
vaneldik@chemie.uni-erlangen.de  
phone: +49-9131-8527350  
fax: +49-9131-8527387

van Lier, Johan  
Nuclear Medicine and Radiobiology  
Université de Sherbrooke  
J1H 5N4 Sherbrooke  
Canada  
johan.e.vanlier@usherbrooke.ca

Vargas-Zuniga, Gabriela  
Chemistry and Biochemistry  
University of Texas at Austin  
Austin TX  
USA  
givz@mail.utexas.edu  
phone: (512) 471-6674

Walter, Michael  
Division of Chemistry and Chemical Engineering  
California Institute of Technology  
1200 East California Blvd  
Pasadena CA  
USA  
mwalter@caltech.edu

Waluk, Jacek  
Photochemistry and Spectroscopy  
Polish Academy of Sciences  
Warsaw  
Poland  
waluk@ifc.edu.pl  
phone: +48 22 343 3332  
fax: +48 22 343 3333

Wanman, Carl C.  
Department of Chemistry  
Portland State University  
Portland OR  
USA  
wamman@pdx.edu  
phone: (551) 725-4261  
fax: (551) 725-9525

Vaz Serra, Vanda Isabel Roldão  
Canelas  
Departamento de Química  
Universidade de Aveiro  
Campus de Santiago  
Aveiro  
Portugal  
a13993@ua.pt  
phone: 351917786759

Vázquez, Purificación  
Depto. Química Orgánica (C-I)  
Universidad Autónoma de Madrid  
Madrid  
Spain  
purificacion.vazquez@uam.es

Vermaas, Wim  
School of Life Sciences  
Arizona State University  
Tempe, AZ  85287-4501  
USA  
wim@asu.edu  
phone: (480)965-6250  
fax: (480)965-6899

Vermathen, Martina  
Chemistry and Biochemistry  
University of Berne  
Berne  
Switzerland  
martina.vermathen@ioc.unibe.ch

Vicente, María da Graca  
Chemistry Department  
Louisiana State University  
Baton Rouge LA  70803  
USA  
vicente@lsu.edu

Wasielewski, Michael  
Department of Chemistry  
Northwestern University  
Evanston IL 60208-3113  
USA  
m-wasielewski@northwestern.edu  
phone: 847-467-1423

Weichsel, Andrzej  
Chemistry & Biochemistry  
The University of Arizona  
Tucson AZ  85721-0088  
USA  
weichsel@email.arizona.edu  
phone: (520) 621-8171  
fax: (520) 626-9204

Wilks, Angela  
Pharmaceutical Sciences  
University of Maryland  
Baltimore MD 21209  
USA  
awilks@rx.umaryland.edu  
phone: 410 706-2537

Witterauf, Franziska  
Department of Organic Chemistry  
University of Wuerzburg  
97074 Wuerzburg  
Germany  
franziska.witterauf@uni-wuerzburg.de  
phone: 499331380856

Woo, Keith  
Chemistry Department  
Iowa State University  
Ames IA  
USA  
kwoo@iastate.edu  
phone: 515-294-5854  
fax: 515-294-9623

Xiao, Xiao  
Chemistry Department  
University of Houston  
Houston, TX 77204-5003  
USA  
xxiao2@uh.edu

Yamada, Hiroko  
Department of Chemistry  
Ehime University  
790-8577 Matsuyama  
Japan  
yamada@chem.sci.ehime-u.ac.jp  
phone: +81-89-927-9613  
fax: +81-89-927-9613

Yamaguchi, Shigeru  
Department of Chemistry  
Kyoto University  
Kyoto  
Japan  
yamaguchi.shigeru@e.mbox.nagoya-u.ac.jp

Yan, Xingzhong  
Electrical Engineering and Computer Science  
South Dakota State University  
Brookings, SD  57006  
USA  
xingzhong.yan@sdsstate.edu  
phone: (605)688-6961  
fax: (605)688-4401