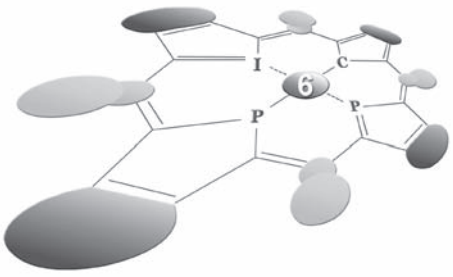

Sixth International Conference on Porphyrins and Phthalocyanines (ICPP-6)

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**

Society of Porphyrins & Phthalocyanines
JPP Office
Universite de Bourgogne - Faculte des Sciences Mirande
ICMUB (LIMRES)
9 avenue Alain Savary
BP 47870
21078 DIJON cedex
FRANCE

Sixth International Conference on Porphyrins and Phthalocyanines (ICPP-6)

July 4 -9, 2010
New Mexico, USA

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Program of ICPP-6

Sunday 4 July, 2010

Conference Registration — Mountain View Foyer

10:00 to 18:00

Welcome Reception — Kiwa Plaza

19:00 to 21:00

Monday 5 July, 2010 - Morning

Opening Ceremonies

Tamaya Ballroom

8:15 to 8:30

Plenary/Award Lecture

Chair: Harry B. Gray

Tamaya Ballroom

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

MONDAY

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-sensitised 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 Garcia 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 Lundstrom, Stephen Macken, Muhamad Malik, Roberto Paolesse, 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

MONDAY

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, Porphyrazines

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 — Badger Room

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

MONDAY

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, Tucosn, 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 CO_2 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 Quimica, 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

Tetrapyrrole 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 Chemcial 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 CO_2 Reduction Using Self-Assembled Cobalt(III) Porphyrin Nanofibers

13:00 to 14:30 Lunch

TUESDAY

S10 Functionalization of Tetrapyrroles

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

10:00 to 10:30 Keynote

Christian Brueckner *(Department of Chemistry,University of Connecticut, Storrs, USA)*

Modifications of the Porphyrinic β,β'-Double Bond to Convert a Pyrrolic Building Block into 4 , 5-, or 6-Membered Heterocycles

10:30 to 10:50

Ken-Ichi Sugiura *(Department of Chemistry, Graduate School of Science, Tokyo Metropolitan University, Hachi-Oji, Japan)*, Motoko S. Asano, Tomoji Kawai, Hiroyuki Tanaka, Ken-ichi Yamashita, Akita Yasuhiro

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

10:50 to 11:10

José Cavaleiro *(Chemistry, University of Aveiro, Aveiro, Portugal)*

New Synthetic Methodologies Leading to meso-Aryl Substituted Porphyrin Derivatives

11:10 to 11:30

Maxwell Crossley *(School of Chemistry, The University of Sydney, Australia)*, Murad Tayebjee, Yuen Cheng, Raphael Clady, N.J. Ekins-Daukes, Tony Khoury, Timothy Schmidt

Ring-annulated Porphyrins and their use as Sensitisers in Photochemical Upconversion

11:30 to 11:50

Naoki Aratani *(Department of Chemistry, Graduate School of Science, Kyoto University, Kyoto, Japan)*, Atsuhiro Osuka, Hiroshi Shinokubo, Jianxin Song

Construction of Various Shaped Multi-porphyrin Arrays via Transition-metal Catalyzed Coupling Reactions

11:50 to 12:10

Peter Zhang *(Department of Chemistry, University of South Florida, Tampa, USA)*

Porphyrin Functionalization via Palladium-Catalyzed Carbon-Heteroatom Bond Formation: Modular Approach to Construction of Chiral Porphyrins

12:10 to 12:30

Norbert Jux *(Department of Chemistry and Pharmacy & Interdisciplinary Center for Molecular Materials, Friedrich-Alexander-Universität Erlangen-Nürnberg, Erlangen, Germany)*, Nina Lang, Jenny Malig

Clicking with porphyrins: highly functionalized tetraphenylporphyrins

12:30 to 12:50

Jean-Michel Barbe *(Université de Bourgogne, ICMUB, UMR 5260, Dijon, France)*

Three Metal Porphyrin Molecular Tweezers

13:00 to 14:30 Lunch

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)*, Songmao 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 Dehydatase

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

S28 Electron Transfer and Applications

Chair/Co-Chair: Francis DSouza, Dirk Guldi and Shunichi Fukuzumi — Bear Room

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, Tatsuhiko 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

TUESDAY

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 Pthalocyanines

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

Pradeepta 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

WEDNESDAY

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-Tetrabenzocorroles

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 tetrabenzoporphyrins 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 — Hawk Room

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 H_2 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

WEDNESDAY

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 Caffola, 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-porphyrazine

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)*

Biomimitic Porphyrin Chemistry: From DNA-enzyme mimics to photosynthesis of biological co-factors

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: offsite "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 Tetrapyrroles

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 CINSaT - 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, Inida)*

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 Acdemy 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-Doo 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 Hyperfrequences, 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

FRIDAY

S7 π-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 *(Insitute of Inorganic ChemistryUniversity 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

FRIDAY

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)*, Murugaeson 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, Santhosh 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

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)*

Porphyrin 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 Steinrueck, 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 — Badger Room

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

Andrew 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, Universitò di Roma "La Sapienza", Rome, Italy)*, Claudio Ercolani

More Recent Develpments in the Area of Electron-Deficient Porphyrazine Macrocycles

16:30 to 17:00 Coffee Break

FRIDAY

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

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

Testing New Porphyrins in In Vivo Model Systems: Effect of Mn Porphyrins in Animal Model of Cerebral Palsy

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 H_2S 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 carbahemiporphyrazines

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

FRIDAY

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

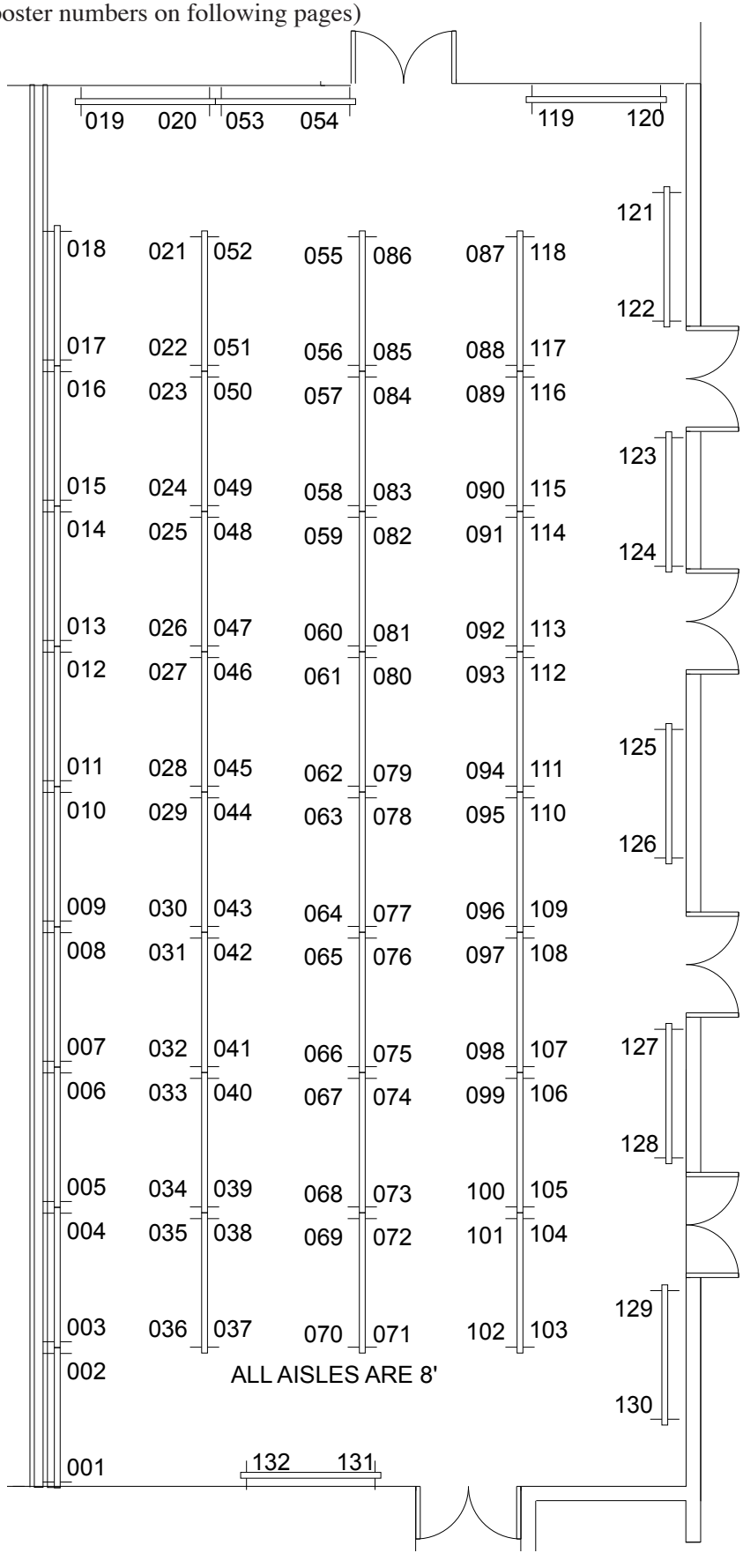
Tamaya Ballroom F,G,H

All Tuesday posters except #5 are from Monday/Tuesday symposia and all Thursday posters are from Thursday/Friday Symposia

	Tuesday	# of Post.	Thursday	# of Post.
	1 Self-Assembled Porphyrin and Phthalocyanine Nanostructures and Biomorphs	11	**2** Multichromophore Arrays and Complex Assemblies: Defined Oligomers	9
	3 Porphyrins and Phthalocyanines in Solar Cells	11	**4** Surface Chemistry: Porphyrins and Phthalocyanines at Solid-Liquid, Solid-Vacuum and Liquid-Liquid Interfaces	2
	9 Subphthalocyanines, Subporphyrazines and Subporphyrins	3	**6** Porphyrins and Modified Porphyrins	27
	10 Functionalization of Tetrapyrroles	14	**7** π-Expanded Porphyrinoids and Corroles: Synthesis and Coordination Chemistry	13
	11 Photodynamic Protocols for Tumor Diagnosis and Therapy	12	**8** Phthalocyanines and Related Azaporphyrins	28
	13 Tetrapyrrole Interaction with Mitochondria, Proteins, and Artificial and Natural Membranes	2	**12** Strategies for Optimizing Porphyrin- and Phthalocyanine-Based PDT and BNCT	12
	15 Porphyrins and Nucleic Acids	4	**14** Biological & Medical Effects of Water-Soluble, Cationic Manganese Porphyrins	3
	16 Heme Enzymes and Model Systems	10	**18** Spectroscopic Probes of Electronic Structure for Heme Proteins and Porphyrinoids	2
	17 Biosynthesis of Chlorophylls	2	**19** Natural Porphyrinoid Pigments: Structure, Function and Synthesis	4
	20 Activation of Small Molecules by Porphyrin Metal Complexes	3	**22** Heme-Based Gas-Sensor Proteins	0
	21 Activation of Small Molecules by Phthalocyanine and Macrocyclic Metal Complexes	3	**23** Heme-Nox Species, both in Proteins and Model Compounds	4
	24 Sensors	14	**26** Advances in the Coordination Chemistry, Structure and Reactivity of Porphyrin and Related Macrocycles	8
	25 Theoretical and Spectroscopic Studies on Porphyrins, Phthalocyanines, and their Metal Complexes	6	**27** Lanthanide Tetrapyrrolic Compounds: Chemistry and Applications	3
	28 Electron Transfer and Applications	4	**30** Metalloporphyrin-Catalyzed Selective Organic Synthesis	6
	29 Artificial Photosynthesis	1		
	5 Porphyrin Based Supramolecular Systems in Chemistry and Biology	18		

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, Sílvia 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 TiO^2 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 H^2 production using metallophthalocyanines

POSTERS TUESDAY

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 octabutylphtalocyanine

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 Burns, Gabriella Marth, ThaoNguyen 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 $Ru_2(2\text{-Fap})_4(C^oCpy)_2$ (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

Antonino 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 Chemsitry, 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 Engeneering, 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, Univeristy of Southampton, Southampton, United Kingdom*), Thomas Bandy, Immene Bouamaied, Ashley Brewer, Jonathan Burns, Simon Gerrard, Gabriella Marth, ThaoNguyen 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, Bhubaneswar, India*)

ansa-Metallocene Based Calix[2]pyrroles and Calix[n]metallocenyl[m]phyrins (n = 1, 2 and m = 2, 4)

S05-041

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

New Calix[4]arene Linked Porphyrin Hosts for Supramolecular Binding of Fullerenes

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-Alkylsubporphyrins

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 Tetrapyrroles

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. Kohnke, 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-Dipyrrolyethenes, 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. F. 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-tetratraaryl 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

S10-059

João P. C. Tomé (*Department of Chemistry, University of Aveiro, Aveiro, Portugal*), Maria C. Gomes, Maria G. P. M. S. Neves, José A. S. Cavaleiro, Adelaide Almeida, Ângela Cunha

Synthesis, Caracterization and Biological Studies of Cationic Galactoporphyrins

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 Bondì, 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 EA1069-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 (D*epartment 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 Porphryins

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, Darío 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 Boechi, Marcelo Martí, Ruth Rosenstein, Darío 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, Akihide 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 (*Dapartamento 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 Porhyrins 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, Filipe A. Almeida Paz, Augusto C. Tomé, Jonathan L. Sessler, José A. S. Cavaleiro

Phthalocyanines as Chromogenic Anion Sensors

S24-100

Gülay Gümüs (*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, Pradeepta K. Panda

Meso-acylated calix[4]pyrroles: a neutral host for dihydrogen phosphate

S24-104

Elzbieta Malinowska (*Warsaw University of Technology, Faculty of Chemistry, Department of Microbioanalytics, Warsaw, Poland*), Alexey Matusevich, 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 NO_2 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 TiO^2 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 Verdini, 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 oxo-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

S28-117

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

S28-118

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

S28-119

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, Tomá□Polívka

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

S28-120

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

S29-121

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

POSTERS TUESDAY

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

Porphyrin-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 Porphyrin 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

Porphyrins Growing Stiff: Steric Hindrance Causing Chirality in Multiporphyrin Arrays

S02-004

Claude P. Gros (*Université de Bourgogne ICMUB, UMR 5260, Dijon Cedex, France*), Benoit Habermeyer, Atsuro Takai, Maya El Ojaimi, Shunichi Fukuzumi, Jean-Michel Barbe

Synthesis of Bisporphyrin 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 Porphyrins 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

Phthalocyanines with lateral phenanthroline-containing rings

S02-007

Amy Shachter (*Santa Clara University, Santa Clara, USA*)

Ligand Binding to a Tartrate-linked Porphyrin 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 Porphyrin 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(dipyrromethene) 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

Macrocyclic 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 (*Departament 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-triphenylporphyrin

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 Gasparyan, 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 Celullar 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 η^2-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 π-Expanded Porphyrinoids and Corroles: Synthesis and Coordination Chemistry

S07-039

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 Bipyrrole Unit

S07-040

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

Mitsunori Inoue (*Department of Chemistry, Graduate School of Science, Kyoto University, Kyoto, Japan*), Sumito Tokuji, 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

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

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

Synthesis of Benzoporphycenes

S07-044

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

Protonated [4n]π and [4n+2]π Octaphyrins Choose Their Möbius/Hückel Aromatic Topology

S07-045

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

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

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

Hillary Tanui (*Chemistry, Louisiana State University, Baton Rouge, USA*), M. Graca H. Vicente, Erhong Hao

Synthesis and Properties of Indolyl-dipyrroles

S07-049

Luca Tortora (*Department of Chemistry, University of Rome "Tor Vergata", Rome, Italy*), Roberto Paolesse, Frank R. Fronczeck, 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 (S*chool 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 Garcia (*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 fluorescenct 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 Tetraquinoxalino- and Octapyrazinoporphyrazines

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 Kharissov (*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, Russi*a), 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 Lemmetyinen, 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, Kore*a), 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 (C*hemical 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 (*Deparment 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 Porphyrazines 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, Lelia E. Dicelio, Leonor P. Roguin

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. Juarranz, 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 Lehnert

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 Lehnert

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 Silvernail, 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 Barabanchikov, 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

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