Program of ICPP-5

Monday 7 July, 2008 - AM

Award Lecture

Large Hall

Chaired by: Daniel G. Nocera

10:00 to 11:00
H. B. Gray
Heme Protein Folding Landscapes

Symposia Lectures

Synthesis of Porphyrins and Phthalocyanines

Large Hall

Chaired by: Michael J. Cook and Andrey Mironov

11:30 to 12:00
Harry Anderson
Synthesis of porphyrin dimers for two-photon excited photodynamic therapy

12:00 to 12:20
Yulia Gorbunova, Kirill Birin, Alexander Martynov, Aslan Tsivadze
Synthetic approaches to heteroleptic sandwich tetrapyrroles

12:20 to 12:40
José Cavaleiro
Synthesis of New Glycoporphyrin Derivatives

12:40 to 13:00
Ozer Bekaroglu
Ball-type or cofacial bis-phthalocyanines: synthesis and properties

13:00 to 13:20
Hidemitsu Uno
Bicyclo[[2.2.2]octadiene-fused Porphyrins. Structures, Properties, and Reactivities

13:20 to 13:40
Penelope Brothers, Amelia Albrett, Peter Boyd, Jeanet Conradie, Abhik Ghosh
Corroles containing coordinated boron

Tumor Imaging, Photodynamic Therapy and other Medical Applications of Porphyrin-Based Compounds

Beige Hall

Chaired by: Ravindra Pandey and Jianjun Guo

11:30 to 12:00
Charles Gomer
Photodynamic Therapy and the Tumor Microenvironment

12:00 to 12:20
Tayyaba Hasan, Ulysses Sallum, Sarika Verma, Xiang Zheng
Strategies for Targeted Photodynamic Therapy

12:20 to 12:40
Libo Li, Rongcheng Luo
PDT Clinical Application in China

12:40 to 13:00
Norbert Lange
Using Alteration in Enzymatic Activity for the Imaging and Photodynamic Therapy of Diseases

13:00 to 13:20
Benjamin Ehrenberg
The correlation between chemical structures of modified tetrapyrroles, their membrane localization and photosensitization efficiency

13:20 to 13:40
Ulas Sunar
Optical Imaging with Preclinical and Clinical Applications

Electron Transfer, Photoelectrochemistry and Electrochemistry

Blue Hall

Chaired by: Dirk M. Guldi and Hiroshi Imahori

11:30 to 12:00
Anthony Harriman, Andrew C Benniston
Directed Electron Transfer in Porphyrin-Metal Complex Dyads

12:00 to 12:20
Ravikanth Mangalampalli
Singlet-singlet energy transfer in covalently and non-covalently linked unsymmetrical multiporphyrin arrays containing two or more different porphyrin sub-units

12:20 to 12:40
Eduard Zenkevich, Th. Blaudeck, E.I. Sagun, A.M. Shulga, C. von Borczyskowski
Dynamics of Photoinduced Electron Transfer in Multicomponent Complexes Containing Porphyrins

12:40 to 13:00
Shunichi Fukuzumi, Masataka Ohtani, Kenji Saito
Size-Controlled Cup-Shaped Nanocarbons Functionalized with Porphyrins

13:00 to 13:20

Helge Lemmetyinen, Alexander Efimov, Marja Niemi, Nikolai Tkachenko

Exciplex as intermediate in photoinduced electron transfer reactions of porphyrin- and phthalocyanine-fullerene dyads

13:20 to 13:40

Dirk Guldi

Control over Charge Transfer in Phthalocyanine / Porphyrin Electron Donor-Acceptor Conjugates

Spectroscopy and Theory

Green Hall

Chaired by: Nagao Kobayashi and Roman S. Czernuszewicz

11:30 to 12:00

Martin Stillman

Theoretical and spectroscopic advances in the interpretation of the electronic spectra of porphyrins and phthalocyanines

12:00 to 12:20

Dongho Kim

Relationship between Aromaticity and Two-Photon Absorption Phenomena in Various Expanded Porphyrins

12:20 to 12:40

Ryoichi Fukuda, Tomoo Miyahara, Hiroshi Nakatsuji

Theoretical spectroscopy of porphyrins, porphyrazines, and phthalocyanines by the SAC-CI method

12:40 to 13:00

Vladimir Maslov

Electronic spectra of metal porphyrins, phthalocyanines and their anions from coupled-cluster and time-dependent density functional theory calculations.

13:00 to 13:20

John Mack, Masaru Bunya, Nagao Kobayashi, Noboru Ono, Yusuke Shimizu, Martin Stillman, Hidemitsu Uno

MCD spectroscopy and the effect of porphyrinoid ligand non-planarity: core modified tetrabenzoporphyrins

13:20 to 13:40

Abhik Ghosh, Kolle Thomas, Ingar Wasbotten

Copper β-Octakis(trifluoromethyl)corroles: New Paradigms for Ligand Substituent Effects in Transition Metal Complexes

Catalysis Processes

Red Hall

Chaired by: Zeev Gross and Karl M. Kadish

11:30 to 12:00

Chi-Ming Che
Metalloporphyrin Catalyzed Functionalization of C-H Bonds and Activation of Dioxygen for Practical Organic Catalysis

12:00 to 12:20

Keith Woo, Harun Mbuvi
New Catalytic Reactions of Iron(III) Porphyrins

12:20 to 12:40

Peter Zhang, Joshua Ruppel, Velusamy Subbarayan, Shifa Zhu
Selective Carbene and Nitrene Transfer Reactions by Cobalt(II) Porphyrins

12:40 to 13:00

Kejian Deng
Synthesis and characterization of noval metallo tetra(1,4-dithiin)-porphyrazine derivatives Bearing Tetrapropyl-bromine

13:00 to 13:20

Eric Rose
5,10-5,10 5,10-15,20 5,15-10,20- Bis-Binaphthyl Porphyrins

13:20 to 13:40

Gerard Simonneaux, Yann Ferrand, Paul Le Maux, Irene Nicolas, Joelle Rault-Berthelot
Asymmetric Homogeneous and Heterogeneous Catalysis with Chiral Metalloporphyrins

Monday 7 July, 2008 - PM

Symposia Lectures

Synthesis of Porphyrins and Phthalocyanines

Large Hall

Chaired by: Hiroyuki Furuta and Penelope Brothers

15:10 to 15:30
Michael Hanack, Xavier Alvarez-Mico, Mario Calvete, Alexey Lyubimtsev, Sergey Vagin
Synthesis of unusual Phthalocyanines and Naphthalocyanines

15:30 to 15:50
Angela Sastre, Fernando Fernández- Lázaro, Shunichi Fukuzumi, Luis Martín-Gomis, Kei Ohkubo
Synthesis and PhotophysicalStudies of Silicon Phthalocyanines

15:50 to 16:10
Jianzhuang Jiang
OFET Properties of Novel Sandwich Phthalocyaninato Rare Earth Complexes

16:10 to 16:30
Vefa Ahsen
Design and Synthesis of New Phthalocyanines for Various Applications

16:30 to 16:50
Larisa Tomilova, Viktor Pushkarev
New types of rare earth phthalocyanine complexes

16:50 to 17:10
Hiroshi Shinokubo, Atsuhiro Osuka
Synthesis of Novel Porphyrins by Organometallic Means

Tumor Imaging, Photodynamic Therapy and other Medical Applications of Porphyrin-Based Compounds

Beige Hall

Chaired by: Ravindra Pandey and Dmitry Papkovsky

15:10 to 15:30
Johan van Lier, Daniel Houde, Youssef Mir
Prospects of Tetrasulfonated Copper Phthalocyanine for Two-Photon Therapy

15:30 to 15:50
Dmitri Papkovsky, Gelii Ponomarev
Sensing and imaging of (intra)cellular oxygen by means of the phosphorescent porphyrin probes

15:50 to 16:10

Alexander Potapenko, Lyudmila Kozir, Alla Kyagova, Galina Mansurova, Zoya Moshnina, Gelii Ponomarev
Systemic Immunosuppression induced by Products of Photooxidation of Protoporphyrin IX, Merocyanine 540 and Psoralen

16:10 to 16:30

Young Shim, Narangerel Badraa, Bayarmaa Bold, Dorjnamjin Demberelnyamba, Young Park
Application of Nano Materials for Photodynamic Diagnosis and Therapy

16:30 to 16:50

Charles Michael Drain, Diana Samaroo, Sebastian Thompson, Joao Tome
New Porphyrins for Therapy, Imaging, and Tagging

16:50 to 17:10

Ravindra Pandey
Synthesis of Novel Bifunctional Agents Derived from Chlorophyll-a and Bacteriochlorophyll-a

Electron Transfer, Photoelectrochemistry and Electrochemistry

Blue Hall

Chaired by: Shunichi Fukuzumi and Eduard Zenkevich

15:10 to 15:30

Nikolai Ivashin, Sven Larsson
Double Proton Transfer Model for Initial Charge Separation in Bacterial Photosynthetic Reaction CentersDouble proton transfer model for initial charge separation in bacterial photosynthetic reaction

15:30 to 15:50

Francis D'Souza
Bio-inspired Supramolecular Porphyrin-Acceptor Conjugates: Design, Electrochemical and Photochemical Studies

15:50 to 16:10

Gema de la Torre, Beatriz Ballesteros, Stephane Campidelli, Dirk M. Guldi, Maurizio Prato, Tomas Torres
Novel approaches to phthalocyanine-SWNT ensembles. Photoinduced formation of charge-separated states

16:10 to 16:30

Joe Otsuki
Self-Assembly of Porphyrins and Energy Transfer Therein

16:30 to 16:50

Derck Schlettwein
Light- induced charge transfer using phthalocyanines in active interfaces: photoredox interaction or semiconductor junction ?

16:50 to 17:10

Hiroshi Imahori
Efficient Photocurrent Generation by Porphyrin-Modified Electrodes

Spectroscopy and Theory

Green Hall

Chaired by: Martin Stillman and Dongho Kim

15:10 to 15:30

Roman S. Czernuszewicz, Daniel T. Gryko
Solvent-dependent electronic and vibrational properties of high-valent oxometallocorroles

15:30 to 15:50

Kazuyuki Ishii, Kazutaka Ozawa
Photophysical Properties of Magnetic Silica Gel-Supported Silicon Phthalocyanine Complexes

15:50 to 16:10

Hugo Scheer
Hetero-chlorophyllous complexes of peridinin-chlorophyll-protein: reconstitution,energy transfer and fluorescence studies by ensemble and single molecule spectroscopy

16:10 to 16:30

Naoto Ishikawa
Lanthanide Phthalocyanine Complexes as Single Molecule Magnets

16:30 to 16:50

Yuriy Korovin
Lanthanide-Porphyrins: Possibilities and Perspectives

16:50 to 17:10

Takamitsu Fukuda
Synthesis and Central Metal Effects on Electronic Structures of Tribenzotetraazachlorin-Fullerene Conjugates

Catalysis Processes

Red Hall

Chaired by: Zeev Gross and Karl M. Kadish

15:10 to 15:30

Yoshihito Watanabe
Hydrogen Peroxide-Dependent Monooxygenations of Non-Natural Substrates Induced by a Substrate-Misrecognition of Cytochrome P450BSƒÀ

15:30 to 15:50

Takashi Hayashi, Masato Abe, Michiko Fujii, Takashi Matsuo, Dai Murata, Takuro Watanabe
Enhancement of Peroxidase Activity for Several Hemoproteins by Reconstitution with Artificially Created Prosthetic Groups

15:50 to 16:10

Jianhui Liu, Björn Åkermark, Yan Gao, Licheng Sun
Mimic of Oxygen Evolution Center (OEC): Synthesis, Properties and Catalytic Water Oxidation of Metal Corrole Complexes

16:10 to 16:30

Wonwoo Nam
Reactive Intermediates in Oxygenation Reactions by Iron Porphyrin Complexes

16:30 to 16:50

Jean Weiss, Corinne Boudon, Mamadou LO, Dinesh Mahajan
New catalysts for oxygen reduction

16:50 to 17:10

David Goldberg, William Kerber, David Lansky, Pannee Leeladee, Amanda McGown, Katharine Prokop
Metal-Oxo, Metal-Peroxo and Related Metallocorrolazine Species in Stoichiometric and Catalytic Reactions

JPP/SPP Award Lectures

Large Hall

Chaired by: Karl Kadish

18:20 to 18:50

Alison Thompson
Pyrroles, Dipyrrins and Prodigiosins: One, Two and Three

18:50 to 19:20

Daniel Gryko
Corroles – from synthesis to spectroscopy and photophysics

19:20 to 19:50

Kei Ohkubo
Closely Linked Electron Donor-Acceptor Dyads with Much Longer Charge-Separation Lifetimes than Natural Photosynthetic Reaction Center

Tuesday 8 July, 2008 - AM

Award Lecture

Large Hall

Chaired by: Ravindra Pandey

09:00 to 10:00
David Kessel
Photodynamic Therapy: the First Hundred Years

Symposia Lectures

Porphyrin and Phthalocyanine Analogues

Red Hall

Chaired by: Chang-Hee Lee and Salome Rodrigues-Morgade

10:30 to 11:00
Jonathan L. Sessler
Synthetic Oligopyrroles as Porphyrin Analogues

11:00 to 11:20
Andrei Cheprakov, Sergei Vinogradov
Linearly Annelated π-Extended Porphyrins: Synthesis, Structure, Properties

11:20 to 11:40
Atsuhiro Osuka
Recent Advances in the Chemistry of Expanded Porphyrins: Novel Structures and Novel Electronic Properties

11:40 to 12:00
William S. Durfee, Anil Çetin, Michael Kawa, Saovalak Sripothongnak, Christopher J. Ziegler
The Coordination Chemistry of a m-Benziphthalocyanine Macrocycle.

12:00 to 12:20
Augusto Tomé, Joana F. B. Barata, José A. S. Cavaleiro, Maria A. F. Faustino, Maria G. P. M. S. Neves, Filipe A. A. Paz, Artur M. S. Silva, Luís S. H. P. Vale
Quinone-fused corroles

12:20 to 12:40
Zeev Gross
Advances in Corrole-based Applications

Supramolecular Chemistry

Beige Hall

Chaired by: Mir Wais Hosseini and Jean-Pierre Sauvage

10:30 to 11:00

Harry Anderson
Supramolecular control of porphyrin-based molecular wires

11:00 to 11:20

Valérie Heitz, Jean-Paul Collin, Julien Frey, Jean-Pierre Sauvage, Christian Tock
A [3]rotaxane with mobile rings attached to Zn porphyrins as an adaptable receptor

11:20 to 11:40

Yoshiaki Kobuke, Joanne Dy, Kazuya Ogawa, Akiharu Satake
Two Photon Absorption Materials from Porphyrin and their Applications

11:40 to 12:00

Ana L. Moore, Miguel Gervaldo, Devens Gust, Michael Hambourger, Amy Keirstead, Gerdenis Kodis, Paul A. Liddell, Gary F. Moore, Thomas A. Moore
Bioinspired Energy Conversion Schemes

12:00 to 12:20

Veronique Bulach, Fabrice Eckes, Mir Wais Hosseini, Elisabeth Kühn
Molecular tectonics: homo- and heterobimetallic networks based on porphyrin derivatives

12:20 to 12:40

Aslan Tsivadze
Crown-substituted porphyrins and phthalocyanines: from synthesis towards materials

Electron Transfer, Photoelectrochemistry and Electrochemistry

Blue Hall

Chaired by: Francis D'Souza and Karl Kadish

10:30 to 11:00

Charles Michael Drain, Alexander Falber
New Metalloporphyrins for Supramolecular Photonic Materials

11:00 to 11:20

Beate Röder, Eugeny Ermilov, Dennis Ng
From simple electron transfer systems towards tetrapyrrole molecular electronics

11:20 to 11:40

Karl Kadish, Jing Shen
The Effect of Solvent, Axial Ligand Binding and Macrocyclic Structure on Redox Potentials and Oxidation States of Metallocorroles

11:40 to 12:00

Maurice L'Her, Kevin Charreteur, Catherine Elleouet, Achille Nassi, Emmanuel Ngameni, Evangeline Njanja, François Quentel, Mickaël Rimboux
LutetiumIII Bisphthalocyanines as Redox Probes for Thermodynamics and Kinetics Investigation about Ion Transfer across Liquid/Liquid Interfaces.

12:00 to 12:20

Jannie Swarts, Aurelien Auger
Unusual scrambling reactions, atropisomerisation and electrochemical quantification of meso substituent polarization effects in ferrocene-containing porphyrins

12:20 to 12:40

Fernando Langa, yasuyuki Araki, Ruben Caballero, Pilar de la Cruz, D. M. Shafiquil Islam, Osamu Ito, frederic Oswald, Vincent Troiani
Oligothienylvinylenes as wires between Porphyrin and C60.

Sensors

Green Hall

Chaired by: Roberto Paolesse and Corrado Di Natale

10:30 to 11:00

Ingemar Lundström, Arnaldo D' Amico, Corrado Di Natale, Daniel Filippini, Emanuela Gatto, Stephen Macken, Roberto Paolesse
Chemical sensing with simultaneous absorption and emission changes of fluorescent indicators

11:00 to 11:20

Jean-Michel Barbe, Claude P. Gros, Roger Guilard, Christine Stern
Gas Sensing and Activation Properties of Porphyrinoïd Species

11:20 to 11:40

Luca Prodi, Sara Bonacchi, Riccardo Juris, Marco Montalti, Enrico Rampazzo, Nelsi Zaccheroni
Fluorescent Chemosensors Based on Silica Nanoparticles

11:40 to 12:00

Maria Luz Rodriguez-Mendez, José Antonio de Saja
Nanostructured Sensors based on Double-decker Rare-earth Phthalocyanines

12:00 to 12:20

Alexander Krasnovsky
Phthalocynines and naphthalocyanines as luminescence sensors of singlet oxygen.

12:20 to 12:40

Alain Pauly, Jérôme Brunet, Marc Dubois, Katia Guerin, André Hamwi, Bernard Lauron, Christelle Varenne
Phthalocyanine based new microsystems for gas sensing

Tuesday 8 April, 2008 - PM

Symposia Lectures

Porphyrin and Phthalocyanine Analogues

Red Hall

Chaired by: Atsuhiro Osuka and Pavel Stuzhin

14:10 to 14:30
Claudio Ercolani
A Survey of the Physicochemical Properties and Applicative Aspects of Mono- and Multimetallic Electron-Deficient Porphyrazines

14:30 to 14:50
Mikhail Islyaikin
Core-modified Analogues of Porphyrazines and Phthalocyanines

14:50 to 15:10
Jun-ichiro Setsune, Keigo Watanabe
Positive Homotropic Allosteric Binding in a Cryptand-like Mixed Porphyrinoid Receptor

15:10 to 15:30
Christian G. Claessens, Anais Medina, Tomas Torres
Synthesis and Organization of Novel Subphthalocyanines

15:30 to 15:50
Chang-Hee Lee
New modified porphyrin and sapphyrin analogues bearing exocyclic double bonds at meso-positions

15:50 to 16:10
Takashi Matsuo, Takashi Hayashi, Kazuyuki Ito, Yuji Tohi
Synthesis and characterization of 20π-conjugated porphycene with trifluoromethyl groups

Supramolecular Chemistry

Beige Hall

Chaired by: Mir Wais Hosseini and Veronique Bulach

14:10 to 14:30
Pierre D. Harvey, Claude P. Gros, Roger Guilard, Christine Stern
Singlet and Triplet Energy Transfer in Organometallic Supramolecular Dyads in Relevance with Biomimicry

14:30 to 14:50
Israel Goldberg, Sumod George, Sophia Lipstman, Sankar Muniappan
Porphyrin Assemblies: Rational Design of Coordination Networks and Supramolecular Chirality

14:50 to 15:10
Jean-Francois Nierengarten
Molecular and supramolecular porphyrin-fullerene conjugates

15:10 to 15:30

Mir Wais Hosseini
A step towards molecular machines: a molecular gate based on a porphyrin and a silver lock

15:30 to 15:50

Jonathan L. Sessler
Oligopyrrole Macrocycles: Convenient Anion Receptors

15:50 to 16:10

Nugzar Mamardashvili, Oskar Koifman
Synthesis of new macrocyclic architectures on the base of tetrapyrrolic compounds

Catalysis Processes

Blue Hall

Chaired by: Oleg L. Kaliya and Dieter Wöhrle

14:10 to 14:30

Oleg L. Kaliya, Eugene A. Lukyanets, Georgy N. Vorozhtsov
Homogeneous catalysis by Phthalocyanines: advantages and application scopes

14:30 to 14:50

Alexander Sorokin, Pavel Afanasiev, Denis Bouchu, Evgeny Kudrik, Jean-Marc Millet
Bio-inspired oxidation of methane in water catalyzed by diiron phthalocyanine complex

14:50 to 15:10

Nasser Safari, Farzad Bahadoranan, Hamid reza Khavasia, Rayatib Rayatib, Akbar Ghaemib, Akbar Ghaemib
Platinum Group Complexes of Porphyrin as Models of Cytochrome P450

15:10 to 15:30

Sergei Makarov, Evgeny Kudrik, Radu Silaghi-Dumitrescu, Rudi van Eldik
Metal Porphyrinates and Phthalocyaninates Catalyzed Reduction of Nitrite in Aqueous Solution

15:30 to 15:50

Kuninobu Kasuga, Makoto Handa, Takahisa Ikeue, Tamotsu Sugimori
Photocatalytic activity of porphyrazine analogues

15:50 to 16:10

Dieter Wöhrle, Natalia Baziakina, Robert Gerdes, Günter Schnurpfeil, Olga Suvorova, Olga Tsaryova
Metal phthalocyanines as sensitizer for the synthesis of fine and degradation of toxic chemicals

Sensors

Green Hall

Chaired by: Alexander Krasnovsky and Jean-Michel Barbe

14:10 to 14:30

Di Natale Corrado, Arnaldo D'Amico, Francesca Dini, Daniel Filippini, Eugenio Martinelli, Roberto Paolesse
A gas sensor system implementing time-resolved gas-chromatography and optical sensors

14:30 to 14:50

Marcel Bouvet, Jerome Brunet, Vicente Parra
Molecular Semiconductor – Doped Insulator (MSDI) Heterojunction: A New Transducer for Gas Chemosensing

14:50 to 15:10

Zafer Ziya Öztürk
Chemical Sensors Based on Phthalocyanines: Recent Studies

15:10 to 15:30

Mikalai Kruk
New Luminescent Sensors based on Porphyrins

15:30 to 15:50

Roberto Paolesse, Arnaldo D' Amico, Corrado Di Natale, Larisa Lvova, Giorgio Verrelli
Chemical images of liquids by metalloporphyrin sensor arrays

15:50 to 16:10

Roberto Purrello, Nina Berova, Alessandro D'Urso, Rosaria Lauceri, Angela Mammana
Porphyrins Z-DNA interactions: a versatile supramolecular reversible information storing system

Oral Presentations

Synthesis of Porphyrins and Phthalocyanines

Red Hall

Chaired by: William S. Durfee and Augusto Tomé

16:40 to 16:55
Norbert Jux, Nina Lang, Hanaa Mansour
Multiple Porphyrin "Clicks"

16:55 to 17:10
Maria G. P. M. S. Neves, Augusto C. Tomé, Cristina M. A. Alonso, José A. S. Cavaleiro, Filipe A. A. Paz, Vanda I. V. Serra, Artur M. S. Silva
A New Synthetic Approach to Pyridoporphyrins by Domino Reactions

17:10 to 17:25
Catherine Hirel, Mehmet Menaf Ayhan, Vefa Ahsen, Chantal Andraud, Yann Bretonniére, Isabelle Ledoux-Rak, Pinar Sen, Joseph Zyss
Crosswise Asymmetric Phthalocyanines: A New Architecture for NLO

17:25 to 17:40
Fabienne Dumoulin, Vefa Ahsen, M. Menaf Ayhan, Catherine Hirel, Umit Isci, Yunus Zorlu
ABAC phthalocyanine's arrival

17:40 to 17:55
Athanassios G. Coutsolelos
Super structured porphyrin derivatives as potential building blocks for CcO mimic models

17:55 to 18:10
Dmitri Belykh, Ivan V. Gruzdev, Mikhail I. Kodess, Aleksandr V. Kutchin, Irina S. Tarabukina
Aminomethylation of chlorophyll a derivatives using bis(N,N-dimethylamino)methane

Porphyrin and Phthalocyanine Analogues

Blue Hall

Chaired by: Christian G. Claessens and Mikhail Islyaikin

16:40 to 16:55
Federica Mandoj, Sara Nardis, Roberto Paolesse
New potential chromophores derived from directly [beta]-fused macrocycles

16:55 to 17:10
Vladimir Bregadze, Detlef Gabel, Andrey Semioshkin, Olga Tsaryova, Dieter Wöhrl**e**
Novel Polyhedral Boron Derivatives of Phthalocyanines

17:10 to 17:25
Wouter Maes, Wim Dehaen, Sumod George, Thien Hyunh Ngo, Eric Rose, Luc Van Meervelt
meso-Pyrimidinyl-Substituted Porphyrinoids: Versatile Building Blocks in Macro- and Supramolecular Chemistry

17:25 to 17:40
Saburo Neya, Tyuji Hohino, Akira Ikezaki, Mikio Nakamura, Yoshiki Ohgo
Ferric Azide Complexes of Porpycene and Non-Planar Porphyrin: Thermal Spin Admixing between the S = 5/2 and S = 3/2 States

17:40 to 17:55

Manuela Stefanelli, Federica Mandoj, Marco Mastroianni, Sara Nardis, Roberto Paolesse
The reactivity of copper β-nitrocorrole

17:55 to 18:10

Ergün Gonca, Ümmü Gülsüm Baklaci, Hatice A. Dinçer
The Synthesis and Spectral Properties of Novel Seco-Porphyrazines with Eight (4-biphenyl) Groups

Coordination Chemistry

Green Hall

Chaired by: Vefa Ahsen and Dmitry Berezin

16:40 to 16:55

Claude P. GROS, Jean-Michel Barbe, Maya El Ojaimi, Roger Guilard, Tony Khoury
Three metal coordination by novel bisporphyrin architectures

16:55 to 17:10

Oscar Koifman, Vladimir Burmistrov, Irina Trifonova
Kinetic anomalies of tetraphenylporphin complex formation and axial exchange in amphiprotic media

17:10 to 17:25

J. Michael Gottfried, Yun Bai, Florian Buchner, Ken Flechtner, Hubertus Marbach, Hans-Peter Steinrueck
Surface chemistry with porphyrins and phthalocyanines: Direct metalation, axial coordination and surface interaction

17:25 to 17:40

Nikolai Tkachenko, Alexander Efimov, Hiroshi Imahori, Aiko Kira, Heli Lehtivuori, Helge Lemmetyinen
Alternate molecular perylene diimide – phthalocyanines – fullerene films: photo-dynamics of energy and electron transfer

17:40 to 17:55

Ken-ichi Yamashita
Syntheses and Axial Coordination Chemistry of Pt(IV)-Porphyrin Complexes.

17:55 to 18:10

Elena Milaeva, S. Bachurin, Olga Gerasimova, Zhang Jingwei, E. Shevtsova, D. Shpakovsky, Nikolay Zefirov
Metalloporphyrins bearing 2,6-di-tert-butylphenol pendants. Synthesis, properties and antioxidative activity

Materials and Applications

Beige Hall

Chaired by: Yoshio Hisaeda and Larisa Lvova

16:40 to 16:55

Yoshio Hisaeda, Shin-ichiro Izumi, Hisashi Shimakoshi
Hybrid Catalysts Composed of Vitamin B12 and Nanomaterials

16:55 to 17:10

Larisa Lvova, Arnaldo D'Amico, Corrado Di Natale, Roberto Paolesse, Giorgio Verrelli
Chemical sensors based on corrole receptors

17:10 to 17:25

Radu Silaghi-Dumitrescu, Zoltan Kis, Sergei V. Makarov, Anna S. Pogorelova, Denis S. Salnikov
The reactivity of myoglobin towards sulfoxylate

17:25 to 17:40

Nataliya Spitsina, Nikolai Davidenko, Anatolii Lobach
Plastic photorecording materials based on metal phthalocyanine complexes

17:40 to 17:55

Victor Aristov
Electronic properties of cobalt phthalocyanine thin film

17:55 to 18:10

Nadezhda Usol'tseva, Venera Bykova
Mesomorphism of meso-substituted Porphyrines

Poster Presentations

Poster ID

001 **Saziye Abdurrahmanoglu**, Ozer Bekaroglu
Synthesis and Characterization of Prymidine Substitue Rare-Earth Sandwich Phthalocyanines

002 **Fadzly Adzhar**, Anthony Ho, Nordin Lajis, Hong Boon Lee, Khozirah Shaari, Soo Hwang Teo
Identification of Photo-cytotoxic Derivatives of Pheophorbide a and b from Piper Penangense.

003 **Tatiana Ageeva**, Oscar Koifman, Olga Nikolaeva
Synthesis of Methylphaeophorbide a Copolymers and Methylmethacrylate in Solution

005 **Heejoon Ahn**
X-ray photoelectron and fluorescence spectroscopies of dicyanopyrazine-linked porphyrin Langmuir-Blodgett films

009 **Barbaros Akkurt**, Esin Hamuryudan, Atif Koca
(Spectro)electrochemical properties of octakis(ferrocenecarboxyethylsulfanyl) phthalocyanine derivatives

010 **Olga Akopova**, Vladimir Baulin, Nadezhda Logacheva, Aslan Tsivadze
The crown-ether containing phthalocyanines with predicted type of mesomorphism

011 **Edith Antunes**, Tebello Nyokong
The effect of the phthalocyanine core structure on the photophysical and spectroscopic properties of phosphorous macrocycles

012 **Naoki Aratani**, Atsuhiro Osuka
Synthesis of phenylene-linked porphyrin arrays by Pd-catalyzed coupling reaction

013 **Victor Aristov**
Electronic structure of potassium doped cobalt and iron phthalocyanines

015 **Yasin Arslanoglu**
Novel Type phthalocyanines for PDT applications

017 **Devrim Atilla**, Vefa Ahsen, K. Hassan Aseel, Tamara V. Basova, Ayse G. Gürek
Thin Films of Mesomorphic Octakis(alkylthio)-Substituted Lead Phthalocyanines

018 **Armagan Atsay**
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Comparative toxicity assessment of Pt-complexes of coproporphyrin III and 5,10,15,20-tetrakis (4-carboxyphenyl)porphyrin

177 **Shohei Saito**, Shen Jing, Kadish Karl, Atsuhiro Osuka, Yasuo Tanaka
Electrochemistry and Spectroelectrochemistry of Octaphyrins in Nonaqueous Solvents

178 **Keiichi Sakamoto**, Michael Cook, Eiko Ohno-Okumura
Zinc bis(1,4-didecylbenzo)-bis(2,3-pyrido)porphyrazine for Application as Photosensitizer in Photodynamic Therapy of Cancer

179 **Keiichi Sakamoto**, Taku Kato, Eiko Ohno-Okumura
Synthesis of Near infrared Absorbed Phthalocyaninate Metal having S-phenyl Groups at Non-peripheral position

180 **Sophia L. Selector**, Vladimir V. Arslanov, Nikita A. Golubev, Yulia G. Gorbunova, Lyudmila A. Lapkina, Oleg A. Raitman, Larisa S. Sheinina, Aslan Yu. Tsivadze
Physicochemical Properties of Monolayers and Langmuir-Blodgett Films of Triple-decker Gadolinium(III) tetra-15-crown-5-phthalocyaninate

181 **Konstantin Solovyov**, Serguei Arabei, Valery Kuzmitsky
Complicated Fermi-type Vibronic Resonance: Untangling of the Single-site Quasi-line Fluorescence Excitation Spectra of a Methylated Dibenzoporphin

182 **Young-A Son**
Silica Gel-Porphyrin Fixing Approaches and Properties

183 **Pavel Stuzhin**, Valery Kuzmitsky, Dzmitry Valkovich
Quantum-chemical calculations of the derivatives of the porphin and porphyrazine with annulated five-member heteroaromatic cycle

184 **Jie Sun**
Evidently Enhanced Catalytic Activity of $FePz(dtn)_4$ for RhB Degradation by Sodium Azide under Visible Light Irradiation

185 **Elena Suslova**, Tatyana Lomova
Reactions of (Hydroxo)(tetrakis(3-bromo)phthalocyaninato)aluminium(III) Concentrated Sulfuric Acid

186 **Sergey Syrbu**, Olga Khelevina, Oleg Petrov
The Reactions of Intermolecular Proton Transfer of Tetraazaporphyrins NH – groups

187 **Olga Sytina**, Marie-Louise Groot, Rienk van Grondelle
Ultrafast Excited State Processes in Protochlorophyllide in Solutions Studied by Time-Resolved Spectroscopy

188 **Antonio Tedesco**, Bernard Coulomb, Fernando Primo, Andreza Simioni
Chloroaluminium-Phthalocyanine-Nanoemulsion: in vitro LASER biostimulation on fibroblasts WI-26 based on Photodynamic Processes

189 **Elena Tyulyaeva**, Svetlana Bachurova, Tatyana Lomova
Peculiarities of (Bisacetato)zirconiumtetraphenylporphine Coordination Properties

190 **Nadezhda Usol'tseva**, Venera Bykova, Nikolay Galanin, Gennadiy Shaposhnikov, Leonid Yakubov
Mesomorphic Properties of meso-substituted Tetrabenzoporphine Derivatives and their Metal Complexes

191 **Giuseppe Vasapollo**, Luigia Longo, Sonia Scorrano
Phthalocyanine-based molecularly imprinted polymers as artificial receptors for DNA and RNA bases.

192 **Vanda Vaz Serra**, Suzana Andrade, José Cavaleiro, Maria do Amparo Faustino, Maria da Graça Neves
Self assembly on meso-(4-carboxyphenyl)porphyrins in water

193 **Pavel Volodin**, Yury Belyy, Gelij Ponomarev, Anna Shatskih, Alexander Tereshchenko
Photodynamic therapy for choroidal melanoma with chlorine e6 photosensitizer: a clinicopathologic case report

194 **Jean Weiss**, Corinne Boudon, Sylvie Choua, Grégory Pognon, Philippe Turek
Calixarene Pacman cobalt bis-porphyrins: New catalysts for oxygen reduction.

195 **Jean Weiss**, Jean-pierre Bucher, Matthieu Koepf, Jennifer Wytko
Surface-tuned self assembly of strapped porphyrin wires

196 **Eduard Zenkevich**, Thomas Blaudeck, Valery Knyukshto, Evgenii Sagun, Alexander Shulga, Alexander Stupak, Alexander Yarovoi, Eduard Zenkevich
Specificity of Photoluminescence Quenching for Semiconductor CdSe/ZnS Nanocrystals by Surfacely Attached Meso-Pyridyl Substituted Porphyrins

197 **Weihua Zhu**, Maxwell J. Crossley, Shunichi Fukuzumi, Karl M. Kadish, Tony Khoury, Kei Ohkubo, Zhongping Ou, Paul J. Sintic, Maxine Sintic
Protonation of electroreduced quinoxalinoporphyrins

198 **Petr Zimcik**, Miroslav Miletin, Katerina Sedlackova, Vendula Stara
Azaphthalocyanines for the third generation photosensitizers

Wednesday 9 July, 2008 - AM

Award Lectures

Large Hall

09:00 to 10:00

Chaired by: Shunichi Fukuzumi

Jean-Pierre Sauvage
Porphyrin-based catenanes and rotaxanes

10:30 to 11:30

Chaired by: Dieter Wöhrle

Evgeny Lukyanets
The Key Role of Periphery in Phthalocyanine Chemistry

11:30 to 12:00

Chaired by: Pavel Stuzhin

Konstantin Solovyov
Photoinduced NH Tautomerism in Porphyrins

13:00 to 17:00

Sightseeing Tour

19:00

Conference Banquet

Thursday 10 July, 2008 - AM

Award Lecture

Large Hall

Chaired by: Rogar Guilard

09:30 to 10:30
W. Robert Scheidt
Explorations in Metalloporphyrin Stereochemistry, Physical Properties, and Beyond

Symposia Lectures

Porphyrin and Phthalocyanine Analogues

Red Hall

Chaired by: Salome Rodrigues-Morgade and Pavel Stuzhin

11:00 to 11:30
Timothy Lash, Jessica El-Beck, Komal Pokharel, Zhenjun Zhang
Out of the Blue! Azuliporphyrins and Related Azulene-containing Porphyrin Analogues

11:30 to 11:50
Pavel Stuzhin
Porphyrazines with Fused 1,2,5-Selenadiazole Rings

11:50 to 12:10
Hiroyuki Furuta
Confusion Approach to Near-IR Porphyrinoids

12:10 to 12:30
Evgeny Katayev, Nikolay Boev, Grigory Kolesnikov, Herman Lavrov, Ivan Tananaev
Synthesis and Coordination Properties of Dipyrromethane- and Bipyrrole-based Ligands

12:30 to 12:50
Piotr Chmielewski
Synthesis and Characterization of the Oligomeric N-confused Porphyrin Derivatives

12:50 to 13:10
Ken-ichi Sugiura
synthesis and single molecule characterization of cyclic porphyrin oligomers: triangles and squares

Hemoproteins and Natural Pigments

Green Hall

Chaired by: Takashi Hayashi and Giulietta Smulevich

11:00 to 11:30
John T. Groves
Perspectives of the Heme-containing Oxygenases- from Enzyme Models to Whole Cells

11:30 to 11:50
Bernhard Kräutler
B12 – Tinkering with its Nucleotide Tail

11:50 to 12:10
Sergey A. Usanov, Andrey A. Gilep, Olga P. Lukashevich, Natalia V. Strushkevich
Cytochrome P450 – unique versatile heme-thiolate catalyst

12:10 to 12:30
Anabella Ivancich
Bifunctional peroxidases (KatGs): A case study towards understanding the structural features determining heme reactivity and stabilization of protein-based radicals as alternative intermediates.

12:30 to 12:50
Yoshitsugu Shiro, Nagano Shingo, Matsumoto Yushi
Fungal and Bacterial Nitric Oxide Reductases: Their Structures and Reaction Mechanisms

12:50 to 13:10
John Dawson, Du Jing, Sono Masanori, Perera Roshan
His93Gly Myoglobin as a Versatile Template for Modeling Novel Heme Iron Protein States: Thioether and Amine Ligation

Coordination Chemistry

Blue Hall

Chaired by: Robert Scheidt and Larisa Tomilova

11:00 to 11:30
Roger Guilard, Jean-Michel Barbe, Claude P. Gros, Christine Stern
Versatile Chemical and Spectroscopic Properties of Face to Face Dyads according to their Geometry

11:30 to 11:50
Kunio Awaga, Hiroshi Ito, Yasuhito Miyoshi, Terufumi Yamada, Hirofumi Yoshikawa
Solid-State Electrochemistry and Photoconductivity of Self-Assembling Thin Films of Tetrakis(thiadiazole)porphyrazines

11:50 to 12:10
Martin Bröring
Iron chelates of 2,2'-bidipyrrin: Stable analogues of the labile iron bilins

12:10 to 12:30
Yan Voloshin, Alexander Belov, Oleg Varzatskii
Ditopic phthalocyaninoclathrochelates: synthesis and structure of hybrid phthalocyanine-capped and ribbed-functionalized cage complexes and their precursors

12:30 to 12:50
Victor N. Nemykin, Christopher Barrett, Claudia Bizzari, Barbara Floris, Pierluca Galloni, Jeffrey O. Grosland, Ryan G. Hadt, Nikolay M. Loim, Gregory T. Rohde
Polyferrocenyl-Containing Porphyrins and Tetraazaporphyrins: Synthesis, Redox Properties, and Electronic Structure

12:50 to 13:10
Johann Buchler
On the Founders of the Coordination Chemistry of Metalloporphyrins

Thursday 10 July, 2008 - PM

Oral Presentations

Synthesis of Porphyrins and Phthalocyanines

Red Hall

Chaired by: Sergiu Gorun and Alan E. Rowan

14:40 to 14:55
Jonathan Hill, Katsuhiko Ariga, Francis D'Souza, Paul Karr, Amy Lea Schumacher, Atsuomi Shundo, Yongshu Xie
Structure and Properties of Phenol-Substituted Porphyrins and Oxoporphyrinogens

14:55 to 15:10
Robert Ghazaryan, Henry Panosyan, Lida Sahakyan, Aleksandr Sahakyan, Aleksan Shahkhatuni, Artak Tovmasyan
Water-Soluble Complexes of Cationic (Metallo)porphyrins With Anionic Dye

15:10 to 15:25
Abdelfattah Badawi, Sahar Ahmed
From Destruction of Contaminants to Destruction of Tumors by Phthalocyanine Photosensitizers

15:25 to 15:40
Alexander Efimov, Helge Lemmetyinen, Essi Sariola
Synthesis of all-cis and all-trans tetrakis(phenylvinylene) substituted phthalocyanines

15:40 to 15:55
Ayse Gul Gurek
Synthesis, Characterization, Mesomorphic and Electrical Properties of Tetrakis(alkylthio)-Substituted Lutetium (III) Bisphthalocyanines

15:55 to 16:10
Yoshiki Ohgo, Daisuke Hashizume, Mikio Nakamura, Saburo Neya
The Spin-crossover Processes Observed in the 6-Coordiinated Iron(III) Porphyrinoid Complexes.

16:10 to 16:25
Salih Zeki Yildiz, Pelin Cebi, Mustafa Kucukislamoglu, Murat Tuna
Preparation of Phthalocyanines Containing Naringenin as Substituent

16:25 to 16:40
Mehmet Kandaz, Orhan Güney, Nilüfer Yaraşır
Selective Metal-Ion Binding Properties of Fluorescent Chemosensor Phthalocyanines

PDT, Tumor Imaging and Biomedical Chemistry

Blue Hall

Chaired by: Johan van Lier and Alexander Potapenko

14:40 to 14:55

Cornelus van Nostrum, Myrra Carstens, Wim Hennink, Jan Willem Hofman, Cristianne Rijcken
Polymeric micelles with controlled release properties for the delivery of photosensitizers for photodynamic therapy

14:55 to 15:10

Martina Vermathen, Peter Bigler, Uschi Simonis
Factors modulating the kinetics of chlorin distribution across phospholipid bilayers

15:10 to 15:25

Keiichi Tsukahara, Emi Fujimoto, Yukiko Matsushima, Hiroshi Takashima, Chisako Tara
Photophysical and Photochemical Properties of Zinc Myoglobins Appending DNA Intercalators

15:25 to 15:40

Pavel Volodin, Yury Belyy, Gelij Ponomarev, Alexander Tereshchenko
Photodynamic therapy for Hippel-Lindau disease with chlorine photosensitizer «Photodytazin»

15:40 to 15:55

Jinling Huang, Naisheng Chen, Zhou Jiang, Hong Liu, Jundong Wang, Jian Wang, Jinping Xue
Research on Photocyanine, A New Amphiphilic PDT Photosensitizer

15:55 to 16:10

Mariya Budzinskaya, Sergey E. Avetisov, Tatyana N. Kiseleva, Sergey G. Kuzmin, Victor B. Loschenov, Irina V. Shcheglova, Sergey A. Shevchik, Georgy N. Vorozhtsov
Photodynamic Therapy and Choroidal Neovascularization in Russia

16:10 to 16:25

Abdol - Khalegh Bordbar, Hamid Dezhampanah
Thermodynamic Investigation of Manganese (III) 5-(1-(4-carboxybutyl) pyridinum-4-yl) 10, 15, 20-tris (1-methylpyridinium-4-yl) Porphyrin with Calf Thymus DNA

16:25 to 16:40

Elena V. Filonenko, Viktor V. Sokolov, Dmitry G. Sukhin
Fluorescent Diagnostics and Photodynamic Therapy with Russian Photosensitizers of Malignant Cutaneous Tumours

Supramolecular Chemistry

Green Hall

Chaired by: Monti Donato and Nugzar Mamardashvili

14:40 to 14:55

Steven Langford
Developing Surfaces, Squares, Timepieces, and Energy Transducers Based on Porphyrins and Multiporphyrin Arrays

14:55 to 15:10
Donato Monti, Corrado Di Natale, Roberto Paolesse, Manuela Stefanelli
Chiral Aggregation of Some Chirally-Functionalised Porphyrin Derivatives in Aqueous Solvents

15:10 to 15:25
Dmitry Konarev, Salavat Khasanov, Rimma Lyubovskaya, Gunzi Saito
Supramolecular approach to the synthesis of neutral and ionic complexes of metalloporphyrins and fullerenes

15:25 to 15:40
Takahiko Kojima
A Supramolecular Assembly Composed of Saddle-Distorted Protonated Porphyrin and Zn-Phthalocyanine

15:40 to 15:55
Fernando Fernandez-Lazaro, F. Javier Cespedes-Guirao, Shunichi Fukuzumi, Kei Ohkubo, J. Javier Ortiz, Angela Sastre-Santos
Phthalocyanine-Perylenebismimide Arrays

15:55 to 16:10
Daryono Hadi Tjahjono, Hidenari Inoue, Benny Permana, Purwanti Rahayu, Naoki Yoshioka
Interaction of Nickel(II) Complex of Tetrakispyrazoliumylporphyrin with Duplex DNA

16:10 to 16:25
Klaus Wandelt, Peter Broekmann, T. M. Hai Nguyen
Potential-driven phase transitions of Porphyrin-layers at metal-liquid interfaces

16:25 to 16:40
Hui Liu, Robert Baptist, Lionel Dubois, Florence Duclairoir, Benoit Fleury, Jean-claude Marchon, Olivier Redon
Efficient Grafting of [beta]-Substituted Porphyrin on Silicon

Spectroscopy and Theory

Beige Hall

Chaired by: John Mack and Abhik Ghosh

14:40 to 14:55
Zsolt Valicsek, Ottó Horváth, Róbert Huszánk, György Lendvay
New aspects for the categorization of metalloporphyrins and query for the 4 MO model

14:55 to 15:10
Valery Kuzmitsky
Untangling of complicated Fermi-type vibronic resonances in the fine-structure single-site fluorescence excitation spectra of porphyrins

15:10 to 15:25
Petra Hellwig, Sabine Dorr, Youssef El Khoury, Ruth Hielscher, Aurelien Trivella
Exploring the far infrared range for studies on metalloproteins and their models

15:25 to 15:40
Alexander Barabanschikov, Ercan Alp, Paul Champion, Minoru Kubo, Timothy Sage, Wolfgang Sturhahn, Jiyong Zhao
Vibrational Dynamics of Heme Model Compounds

15:40 to 15:55

Hatice Can, Vefa Ahsen, Elif Turker Acar
Excited State Properties of the Zinc Phthalocyanine Derivatives Based on TDDFT Calculations

15:55 to 16:10

Aleksander Starukhin
Distorted Forms of Metalloporphins Probed by Methods of Highly Resolved Spectroscopy

16:10 to 16:25

Rimma Kuznetsova, E. Ermolina, I. Kalashnikova, Yu. Korovin, P. Stuzhin
Spectral-luminescent, photochemical and nonlinear optical properties of some cyclotetrapyrrole derivatives in different solutions and solid films

16:25 to 16:40

Andrey Ionov, V Rumiantseva, S Bozhko, M Ionov, A Mironov
Electronic structure of platinum metals based metalloporphyrins: Photoemission spectroscopy studies.

Plenary Lecture

Large Hall

Chaired by: Martin Stillman

17:10 to 18:10

Tebello Nyokong
Phthalocyanine optical spectroscopy and photophysics: the effect of biomolecules and nanoparticles

Poster Presentations

Poster ID

201 **Tatiana Ageeva**, Ekaterina Klein, Ekaterina Kolodina, Elena Alopina, Oscar Koifman
Synthesis of cobalt (II), copper (II) formilporphyrins and their covalent immobilization on polyvinyl alcohol in solutions

202 **Heejoon Ahn**
Patterning of porphyrin molecules using micro-contact printing (π-CP)

203 **Victor Aristov**
Magnetic metal-organic semiconductor interface: Fe and Co on CuPc

204 **Yasin Arslanoglu**
Titanylphthalocyanines Substituted with Dimethylaminoethoxy Groups

205 **Armagan Atsay**
New Zinc (II) Phthalocyanines Containing Naphthyloxy- and Phenylazonaphthyloxy- Subtituents

206 **Josefina Awruch**, Lelia Dicelio, Virginia Diz, Gabriela Gauna, Cristian Strassert
Photophysical properties of microencapsulated phthalocyanines

207 **Mehmet Menaf Ayhan**, Vefa Ahsen, Ayse Gul Gurek, Catherine Hirel
ABAB Phthalocyanines: Regioselective and Statistical Methods Strategies

208 **Il Woong Baek**, Heejoon Ahn, Jae Yun Jaung
Electrospinning of polystyrene/porphyrin composite nanofibers

209 **Joana Barata**, José A. S. Cavaleiro, M. Amparo F. Faustino, M. Graça P. M. S. Neves, Artur M. S. Silva, Augusto C. Tomé
Photodecomposition products of 5,10,15-tris(pentafluorophenyl)corrole and its gallium(III) complex

210 **Ivan Belogorokhov**, Dmitry Khokhlov, Dmitry Mamichev, Victor Pushkarev, Larisa Tomilova, Andrei Zoteev
Vibronic properties of heteroleptic triple-decker lutetium phthalocyanine complexes

211 **Dmitrii Belykh**, Vladimir Kataev, Mayya Korochkina, Marina Mal'shakova
Synthesis of conjugates on the basis of chlorine and isosteviol building blocks

212 **Zekeriya Biyiklioglu**
Synthesis and characterization of new metal-free and metallophthalocyanines peripherally fused to 15-membered tetraoxamonoazamacrocycles by microwave irradiation

213 **Iouri Borissevitch**, Lucimara P. F. Aggarwal, Mauricio S. Baptista
Effects of NaCl upon TPPS triplet state characteristics and singlet oxygen formations

214 **Lianqing Chen**
Synthesis under microwave irradiation and characterization of tetraphenyl-porphyrin derivatives and metalloporphyrin

215 **Hsu-Chun Cheng**, Yuhlong Su
Probing the redox sites of cobalt porphyrins by electrochemistry

216 **Elena Danilova**, Igor Abramov, Natalia Bumbina, Sergey Filimonov, Mikhail Islyaikin, Vladimir Sharunov
Synthesis of lanthanide complexes of substituted macroheterocyclic compounds of ABABAB-type

217 **Mikhail Filatov**, Alexei Averin, Irina Beletskaya, Andrei Cheprakov, Elena Ranyuk
Palladium-catalyzed amination of π-extended porphyrins

218 **Pablo Jose Goncalves**, Iouri E. Borissevitch, Paulo L. Franzen, Sergio C. Zilio, Leonardo de Boni
Effects of interaction with micelles on photophysical characteristics of meso-tetra(sulphonatophenyl) (TPPS4) and mesotetrakis methylpyridiniumyl (TMPyP) porphyrins

219 **Mikhail Grin**, Olga Kharitonova, Alexander Krasnovsky, Ivan Lonin, Andrey Mironov, Kirill Semenikhin, Anton Strizhakov
The Conjugates of Natural Chlorophylls with Polycarbocyanine Dyes for Tumor Cell Labeling

220 **Jonathan Hill**, Katsuhiko Ariga, Francis DSouza, Paul Karr, Amy Lea Schumacher, Yongshu Xie
Tautomerism in Oxocorrologens

221 **Akira Ikezaki**, Mikio Nakamura, Hideyuki Tukada
Control of Electronic Structure of Six-Coordinate Iron(III) Porphyrin Radical by Means of Axial LigandsMikhail Islyaikin, Natalia Bumbina, Elena Danilova, Georgiy Girichev, Alexander Krasnov, Sergey

222 **Mikhail Islyaikin**, Natalia Bumbina, Elena Danilova, Georgiy Girichev, Alexander Krasnov, Sergey Shlykov, Alexander Zakharov
A density functional theory and gas electron diffraction study of trithiadiazoletri(5-tert-buthylisoindole) macrocycle

223 **Svetlana Ivanova**, Evgeny Kudrik, Sergei Makarov, Pavel Stuzhin
Octa(sulfophenyl)porphyrazinatoiron(III): Synthesis and Coordination Properties in Aqueous Solutions

224 **Chunkeun Jang**, Jae-Yun Jaung
Fluorescence property of Perialkynylated tetrapyrazinoporphyrazine derivativ

225 **Jae-Yun Jaung**, Seung-Hwan Byun
Synthesis and Characterization of Tetrapyrazinoporphyrazines derivatived from Camphorquinone

226 **Bahadir Keskin**, Ulvi Avciata, Ahmet Gül, Aysegul Peksel
Radical Scavenging Activities of t-Butylphenyl Derivative of Porphyrazine

227 **Olga Khelevina**, Alyona Malyasova, Pavel Stuzhin
Formation and Base Properties of Zn (II) Complexes of Diazepinoporphyrazine

228 **Byung-Soon Kim**
Self-assembled Layer-by-layer Fabrication using Porphyrin and Poly(diallyldimethylammonium chloride)

229 **Marija Klyueva**, Tatyana Lomova, Elena Tulyaeva
Acid-base and redox properties of palladium(II)porphyrinsin strong acid media

230 **Nadejda Konovalova**, Elena Kirienko, Vladimir Paschenko, Vadim Tusov
Design, Synthesis and Photoinduced Energy Transfer Properties of Covalently Linked Porphyrin Heterodimers

231 **Kamil Kopecký**, Miroslav Miletin, Veronika Novakova, Petr Zimcik
Binding of tetrapyrazinoporphyrazine to a standard solid phase

232 **Mikalai Kruk**, Silvia Braslavsky
Origin of Molecular Volume Change upon Photoexcitation of Porphyrins

233 **Ekaterina Larkina**, Elena Tkachevskaya
Effects of Low-Power Laser Irradiation on Wound Repair Development in the Presence of Pheophorbide a and Protoporphyrin IX

234 **Timothy D. Lash**, Amber Von Ruden, Alexandra Young
Synthesis of Novel N-Confused Porphyrins and Pyriporphyrins

235 **Tatyana Lomova**, Mikhail Klyuev, Marija Klyueva
Array of synthetic Analogues of Catalase based on Palladium Porphyrin

236 **Chihiro Maeda**, Hiroshi Shinokubo
Syntheses and Self-assembling of meso-Azaindolyl and Triazolyl Zn(II) Porphyrins

237 **Dinesh Mahajan**, Mamadou Lo, Jean Weiss
New Superstructured Porphyrin via Claisen Rearrangements

238 **Anton Makarov**
Theoretical study of metalloporphyrins of 3d-transition metals and their carbonyl, cyanide, nitrosyl derivatives.

239 **Sergey Makarov**, Anna Altshuller, Olga Suvorova, Dieter Woehrle
Planar Binuclear Naphthalocyanine

240 **Nugzar Mamadrashvili**, Ekaterina Ratkova, Vladimir Sheinin
pH-Dependent Porphyrin "Ladder" Aggregation in Acetonitrile

241 **Nugzar Mamardashvili**, Yulia Chyrakhina, Yulia Ivanova, Aleksandr Semeikin
Synthesis and basic properties of meso-threeaza-tetra-(4- tert.-butylbenzene)-porphin

242 **Galina Mamardashvili**, Natalia Chizhova, Anastacia Romanova, Vladimir Sheinin
Metal exchanging reaction of manganese cadmium tetrabenzporphyrinate with $MnCl_2$ in DMF media

243 **Jury Marfin**, Elena Antina, Galina Guseva, Svetlana Makarova, Evgeniy Rumyantsev, Alexey Solomonov
Linear Tetrapyrroles: Relation Physical-chemistry Propertiesand Biochemical Functions

244 **Vladimir Maslov**, Alexander Baranov, Anna Orlova, Anton Stepenov
High-efficient quenching of quantum dot luminescence in associates with porphyrin and phthalocyanine molecules

245 **Ksenia Maximova**, Natascha Baziakina, Valentina Kutureva, Olga Suvorova, Dieter Wöhrle
Synthesis and investigation of mixed-ligand monophthalocyanine Eu complexes

246 **Igor Meerovich**, Anatoly Baryshnikov, Peter Bendel, Alexander Brandis, Gennady Meerovich, Natalia Oborotova, Avigdor Scherz
Potential contrast agent for MRI on a base of Manganese Bacteriopheophorbide

247 **Gennady Meerovich**, Anatoly Baryshnikov, Mikhail Grin, Victor Loschenov, Igor Meerovich, Andrey Mironov, Natalia Oborotova, Alexander Tsiprovskij
Efficient photodynamic treatment of melanoma using Bacteriochlorin p N-methoxycycloimide oxyme methyl ester

248 **Qing Miao**, David Dolphin, Ji-Young Shin
Study on the Metal Complexes of Boron Chelated Dipyrromethene Diads

249 **Yulia Mitasova**, Tatiana Ageeva, Elena Balantseva, Oscar Koifman, Roman Kuznetsov
Research coordination immobilization of tetraphenylporphyrin metallocomlexes on homo- and copolymers vinylpyridines and styrene

250 **Yasuhito Miyoshi**, Kunio Awaga, Toru Mitsunaga, Hirofumi Yoshikawa
In-situ conductivity Measurements and Structural Analysis in Electrochemical Doping Processes of Porphyrazine Thin Films

251 **Keisuke Mizutani**, Michio Kunieda, Shin-ichi Sasaki
Synthesis of C3-Substituted Chlorophyll Derivatives by Modification of Ethynyl Group at the 3-Position

252 **Sharon Moeno**, Tebello Nyokong
Photophysical behaviour of phthalocyanine – quantum dots conjugates

253 **Luigi Monsu' Scolaro**, Giovanna De Luca, Elisabetta Foresti, Ismaela Fortran, Giorgio Isidoro Lesci, Norberto Micali, Luigi Monsu' Scolaro, Andrea Romeo, Norberto Roveri, Valentina Villari, Tommaso Zuccheri
Ionic self assembly with porphyrins and chrysotile nanotubes: supporting functional materials

254 **Carlos Monteiro**, Luís Arnaut, Sebastião Formosinho, Mariette Pereira, Sara Pinto, Elsa Silva, Ana Simões, Sérgio Simões, Gonçalo Sá
Synthesis of halogenated bacteriochlorins: Efficient PDT agents

255 **Donato Monti**
Porphyrins with saccharides substitution in meso positions and their aggregaion study

256 **Yuliya Morozova**, Gelii Ponomarev, Zoya Starikova, Dmitry Yashunsky
Chemical transformations of 1,2-oxazinochlorin derivatives

257 **Shirley Nakagaki**, Gregório Guadalupe Carbajal Arízaga, Guilherme Sippel Machado, Fernando Wypych
First insight into immobilization of metalloporphyrins in zinc hydroxide nitrate and study of catalytic activity

258 **Makoto Nakashima**, Hiroshi Imahori, Yoshihiro Matano, Takashi Nakabuchi
Synthesis, sructure and properties of phosphaporphyrins

259 **Monica Neagu**, Mihaela Gherghiceanu, Rodica - Mariana Ion, Gina Manda, Ionela Neagoe, Crina Stavaru
Fullerenes-Porphyrin compounds as anti-tumoral agents in photodynamic therapy experimental model

260 **Andrei Nechaev**
The new chlorins with pyridine fragments

261 **Vladimir Negrimovsky**, Grigory Avramenko, Evgeny Lukyanets, Konstantin Volkov
Nucleophilic Substitution in Tetrachlorophthalonitrile: Scope and Limitation

262 **Thien H. Ngo**, Wim Dehaen, Wouter Maes
meso-Pyrimidinylcorroles

263 **Nolwazi Nombona**, Jean Hakuzimana, Tebello Nyokong, Phillipe Westbroek
Electrochemical detection of L-cysteine using pthalocyanine self assembled monolayer on gold ultramicroelectrodes and gold coated yarns

264 **Veronika Novakova**, Kamil Kopecky, Petr Zimcik
Synthesis of zinc quinoxalinoporphyrazine macrocycles

265 **Nikita Novikov**, Natalia Bragina, Irina Fedulova, Vladimir Kuzmin, Ekaterina Lisitsyna, Andrey Mironov
DNA-interaction studies with water soluble cationic porphyrins

266 **Tebello Nyokong**, Mopelola Idowu
Spectroscopic interactions of cationic metallophthalocyanine and anionic quantum dots

267 **Kazuya Ogawa**, Theodore Goodson, Yoshiaki Kobuke
Synthesis and Photophysical Property of Macrocyclic Porphyrin Array Consisting of Fluorene-bridged Bisporphyrin

268 **Masataka Ohtani**, Shunichi Fukuzumi, Prashant Kamat
Photoconversion Properties of Donor-Acceptor Nanohybrid Film Based on Size-Controlled CuShaped Nanocarbons Functionalized with Porphyrins

269 **Zoya Okun (Gershman)**, Israel Goldberg, Zeev Gross
DNA likes corroles, but peroxynitrite does not

270 **Valentina Ol'shevskaya**, Dmitrii Belykh, Galina Golovina, Valery Kalinin, Mikhail Kaplan, Alexander Kuchin, Vladimir Kuzmin, Marina Mal'shakova, Roza Nikitina, Arina Savchenko, Alexander Vinogradov
Boronation of Chlorin e6 Augments Antitumor Efficacy: Association with Increased Binding to Albumin

271 **Emel Onal**, Vefa Ahsen, Catherine Hirel
Tetraimidazophthalocyanines: Influence of Protonation and Aggregation on Spectroscopic Observations

272 **Zhongping Ou**, Naisheng Chen, Jinling Huang, Zhou Jiang, Karl M. Kadish, Jing Shen, Jundong Wang
Electrochemistry and spectroscopic characterization of tetra-α-substituted metallophthalocyanines

273 **Jack Owens**, John Goodwin, Tigran Kurtikyan, Rosalie Richards
Octabrominated porphyrins

274 **Georgij Pakhomov**
Photovoltaic cells based on boron subphthalocyanine chloride

275 **Dmitri Papkovsky**, Tomas O'Riordan, Gelii Ponomarev, Alexander Zhdanov
Dynamics of intracellular oxygen in neurosecretory cells measured with the phosphorescent porphyrin probe

276 **Alina Pashkovskaya**, Yuri Antonenko, Vladimir Kireev, Elena Kotova, Nina Kuznetsova, Marina Strakhovskaya, Olga Yuzhakova
Impact of Electrostatic Interactions with Membranes on Photodynamic Activity of Cationic Phthalocyanines

277 **Milosz Pawlicki**, Harry L. Anderson, Mikhail Drobizhev, Aleksander Rebane
Two-Photon Absorption by Branched Chromophores with Porphyrin Subunit

278 **Ana Pereira**, José A.S. Cavaleiro, Maria G.P.M.S Neves, Ana M.G. Silva, Artur M. S. Silva, Augusto C. Tomé, Tomás Torres
Synthesis of a New Porphyrin-Phthalocyanine Dyads' Precursor

279 **Elena Pereletova**
Reduction of Metal Phthalocyaninates: Influence of Reductant and Metal

280 **Julia Petropavlovskaya**, Svetlana Efimova, Oscar Koifman, Andrei Korzhenevsky
Synthesis of metallocomplexes of octacarboxypyrazinoporphyrazine

281 **Ekaterina G. Petrova**, Svetlana A. Borisenkova, Oleg L. Kaliya
Associates of opposite charged phthalocyanines as models of catalase

282 **Vladimir Plyashkevich**, Tamara Basova
Spectral characterization of thin films of vanadyl hexadecafluorophthalocyanine $VOPcF_{16}$

283 **Giuseppe Pomarico**, Donato Monti, Sara Nardis, Roberto Paolesse
Tripyridylcorrole derivatives are promising building block for supramolecular assemblies

284 **Gelii Ponomarev**, Nikolay Glagolev, Nikolay Melik-Nubarov, Anna Solovieva, Timur Zhientaev
Pluronic Influence on Photocatalytic Activity of Water-soluble Porphyrins and Chlorins

285 **Alexander Potapenko**, Alla Kyagova, Mikhail Malakhov, Galina Mansurova, Gelii Ponomarev
Comparison of Photohemolytic Efficiency of Several Amphiphilic Deuteroporphyrin Derivatives

286 **Svetlana Puhovskaya**, Oleg Golubchikov, Larisa Guseva, Alexandr Semeikin
Coordination Properties of Porphyrins with Shielded Reaction Center

287 **Victor Pushkarev**, Vitaly Krasovskii, Larisa Tomilova
Nonlinear optical characteristics of rare earth homo- and heteroleptic phthalocyanine complexes

288 **Romain Ruppert**, Henry J. Callot, Jean - Paul Gisselbrecht, Christophe Jeandon, Sébastien Richeter
Synthesis of Oligoporphyrins Linked by Metal Ions

289 **Jan Rakušan**, Martin Drobek, Marie Karásková, Stanislav Nešpurek
Humidity sensor based on sulfonated aluminium phthalocyanine

290 **Catarina Isabel V Ramos**, Joana F. B. Barata, Augusto C. Tomé, José A.S. Cavaleiro, M. Graça P.M.S. Neves, M. Graça O. Santana-Marques
Differentiation of New Amino-Corrole Isomers through adduct formation using Electrospray Mass Spectrometry

291 **Régis Rein**, Nathalie Solladié
Bis-Porphyrinic Tweezers based on an Uridine Spacer : Efficient Molecular Recognition of Bidentate Bases of Various Sizes.

292 **Irene Noemi Rezzano**, Cecilia Bonazzola, Viviana Campodall' Orto, Romina Carballo, Jorge Hurst, Alejandro Spiaggi
Covalently Attached Metalloporphyrins in LBL Self-Assembled Redox Polyelectolyte Thin Films

293 **Rosalie Richards**
Porphyrins in Pre-College and Undergraduate Chemical Education at Georgia College & State University

294 **Eric Rose**, Alessandro Caselli, Sergio Cenini, Melanie Etheve-Quelquejeu, Simone Fantauzzi, Emma Gallo, Samar Issa, Fabio Ragaini, Nicolas Raoul
Asymmetric Cyclopropanation of Olefins Catalyzed by Chiral Cobalt(II)-Bis Binaphthyl Strapped Porphyrins

295 **Vladimir Roznyatovskiy**, Jonathan Sessler
Novel β-alkyl substituted calix[4]pyrroles capable of further functionalization

296 **Silke E. Ruck**, Bernhard Kräutler, Thomas Müller
Iron Complexes of Chlorophyll Derivatives

297 **Markus Ruetz**, Bernhard Kräutler, Shahzad Murtaza
Iso-cobalamins

298 **Valentina Rumyantseva**, Andrey Ivanov, Valery Markushev, Andrey Mironov, Alexander Ryabov, Kamil Shchamkhalov, Igor Shilov
Synthesis and study of porphyrin ytterbium-complexes as promising substances for early luminescence diagnostics of cancer

299 **Natalya Rusakova**
Molecular Assemblies on the Base of Porphyrins as the Build Blocks of Heteronuclear Complexes

300 **Ramzes Ruziev**, Dmitriy Amalitsky, Viktor Amalitsky, Alexei Karpeev, Viktoria Lebedeva, Andrey Mironov
New phosphorus-contained chlorins

301 **Michael Ryan**
Spectroelectrochemical and DFT Calculated Infrared Vibrations of Iron Porphinone Complexes

302 **Shohei Saito**, Atsuhiro Osuka
Structures and Reactivities of Heptaphyrin Metal Complexes

303 **Keiichi Sakamoto**
Synthesis of Donuts Shape Zinc Poly(aminoamine) phthalocyanine Dendrons and Their in vitro Study on Photosensitizer for Photodynamic Therapy of Cancer

304 **Umit Salan**, Ozer Bekaroglu
Synthesis And Characterization OfA New Azo Coupled Bis Phthalocyanine

305 **Irena Saltsman**, Mark Botoshansky, Zeev Gross
Facile Synthesis of Water-soluble Corroles with ortho-Pyridinium and Carboxylic Acid Residues

306 **Nil Saydan**, Vefa Ahsen, Mahmut Durmus, Meltem G. Dizge, Ayse Gül Gürek, Tebello Nyokong, Hanifi Yaman
Water soluble phthalocyanines mediated photodynamic effect on matrix metalloproteinases activity of mesothelioma cells

307 **Petr Sazonov**, Galina Artamkina, Irina Beletskaya, Galina Grishina, Oskar Koifman, Alexander Semeikin, Mikhail Shtern, Sergey Syrbu, Ivan Veselov
Palladium-catalyzed amination of meso-bromophenyl(polyalkyl)porphyrins: synthesis of porphyrins with hydroxypiperidine groups

308 **Sophia L. Selector**, Vladimir V. Arslanov, Kirill P. Birin, Yulia G. Gorbunova, Oleg A. Raitman, Larisa S. Sheinina, Aslan Yu. Tsivadze
Ultra thin films of double-decker cerium tetra-(15-crown-5)-phthalocyaninate: Spectroscopic and Electrochemical investigations

309 **Mykola Semenishyn**, Yuriy Korovin, Natalya Rusakova
Lanthanide Complexes with Ditopic Porphyrin-DTPA Ligands

310 **Pinar Sen**, Vefa Ahsen, Chantal Andraud, Yann Bretonniére, Catherine Hirel, Isabelle Ledoux-Rakc, Joseph Zyss
Homoleptic Lanthanide Complexes of Phthalocyanine and Porphyrin: Potential Non-Linear Optic Agents

311 **Jing Shen**, Jean-Michel Barbe, Mohammed Chkounda, Maya El Ojaimi, Claude P. Gros, Roger Guilard, Karl Kadish
Electrochemistry and Spectroelectrochemistry of Manganese Corrole and Porphyrin–Corrole Dyads

312 **Soji Shimizu**, Nagao Kobayashi, Hua Zhu
Synthesis and Properties of Phthalocyanine Analogues Bearing 1,8-Naphthalene Units

313 **Ji-Young Shin**, David Dolphin
Dipyrromethene Chemistry

314 **Olga Shukhto**, Dmitry Berezin
Metal Exchange Reactions in Cd-Metalloporphyrins

315 **Grace Louise Simpkins**, Maxwell J. Crossley, Neil Hunter, Benjamin C.M. Yap
Studies of the Porphyromonas gingivalis Active Site

316 **Alexandra Soldatova**, Mohammed Ibrahim, Thomas G. Spiro
Modulation of the FeNO bonding in FeNO^6 myoglobin: insights from resonance Raman and DFT studies

317 **Lyudmila Solovyeva**, Evgeny Lukyanets
Synthesis of Novel Water Soluble Conjugates of Cationic Type Based on Octa-4,5-carboxyphthalocyanines

318 **Konstantin Solovyov**, Serguei Arabei, Tatiana Pavich
Spectral and physico-chemical properties of porphyrazine molecules with extended and limited π-conjugation in organic nanoporous xerogels

319 **Young-A Son**
Photofading Behaviors of Phthalocyanine dye

320 **Tatiana Souhodolskayaà**, Nadezhda Aksenova, Nikolay Glagolev, Anna Solovieva, Peter Òimashev
Atomic force microscopy as a tool for porphyrin – bioactive surfactant solubilization research.

321 **Aleksander Starukhin**, Mikalai Kruk
Manifestation of out-of-plane Vibrations in the Phosphorescence Spectra of Metalloporphins

322 **Christine Stern**, Roger Guilard, Pierre D. Harvey, Jean-Philipe Tremblay-Morin
Synthesis of Disymmetrical Bisporphyrins for the Study of Singlet-Singlet Through Space Energy Transfer

323 **Martin Stillman**, Christina Magee
Magnetic circular dichroism and molecular modelling study of a zinc helicenocyanine.

324 **Pavel Stuzhin**, Sergej E. Nefedov, Anwar Ul-Haq
[mu]-Oxodiiron(III) Complexes of meso-Mono- and Diazasubstituted [beta]-Octaalkylporphyrins

325 **Jie Sun**
Efficient H_2O_2 Oxidation of Organic Polluts over a Broad pH Range Catalyzed by $FePz(dtnCl_2)_4$ under Visible Light Irradiation

326 **Elena Suslova**, Natalya Bumbina, Elena Danilova, Mikhail Islyaikin, Tatyana Lomova
Study of protonation and destruction of trithiadiazoletri(5-tert-butylisoindole)macrocycle

327 **Sergey Syrbu**, Galina Osipova, Oleg Petrov
Formation and Stability of Complexes with Proton Transfer of β,β – Annelated Porphyrazines

328 **Olga Sytina**, Marie-Louise Groot, Derren Heyes, Neil Hunter, Rienk van Grondelle, Ivo van Stokkum
Light-Dependent Activation of the Ultrafast Light-Driven Enzyme POR

329 **Sevinc Topal**, Vefa Ahsen, Kadriye Ertekin, Ayse Gül Gurek, Berrin Yenigul, Fatma Yuksel
Emission Based Fiber Optic pH Sensors Employing Phthalocyanines

330 **Hidetoshi Taima**, Inoue Hidenari, Yoshioka Naoki
DNA Binding Properties of Pyropheophorbide a Derivatives with Some Cationic Substituents

331 **Atsuro Takai**, Jean-Michel Barbe, Shunichi Fukuzumi, Claude P. Gros, Roger Guilard
Enhanced Electron-Transfer Properties of Cofacial Porphyrin Dimers through π–π Interaction

332 **Takayuki Tanaka**, Naoki Aratani, Yasuyuki Nakamura, Atsuhiro Osuka
Bay-area Selective Cycloaddition Reactions of meso-meso, β-β, β'-β' Triply Linked Diporphyrins

333 **Yasuo Tanaka**, Atsuhiro Osuka
Metallation and Möbius aromaticity of [36]octaphyrin

334 **Pavel Tarakanov**, Aleksej Kozlov, Roman Kumeev, Pavel A. Stuzhin
Low-symmetry Pyrazinoporphyrazines with β,β-Fused 1,2,5 Selenadiazole and 1,4 Diazepine rings

335 **Antonio Tedesco**, Paula Barbugli, Gisele Bolfarini, Enilza Espreafico, Daniela Oliveira
Studies of Chloroaluminium Phthalocyanine (ClAlPC) in Lipossome Medium as a Potential System for Human Melanoma Treatment

336 **Raquel Teixeira**, Suzana Andrade, Sílvia Costa
Self-aggregation of Protoporphyrin-IX aminoacid derivatives in DTAC micelles and DMPC vesicles

337 **Sergei Terekhov**, Olga Gladkova, Inna Khodasevich, Andrei Panarin, Marina Parkhats, Pierre-Yves Turpin
Vibrational Characterization of Tetrapyrrolic Photosensitizer Chlorin $_e$6: FT-IR, Resonance Raman, SERS Spectra and Normal-Mode Analysis

338 **Karl Thorley**, Harry Anderson, Joel Hales, Joseph Perry
Porphyrin Dimer Carbocations as Near-IR Dyes

339 **Michael Tiedemann**, David Heinrichs, Naomi Muryoi, Martin Stillman
Iron acquisition in the pathogenic bacterium Staphylococcus aureus

340 **Rustam Titeev**, Vladimir Bregadze, Dmitriy Brittal, Mikhail Grin, Andrey Mironov, Igor Sivaev
Synthesis of Chlorin and Bacteriochlorin Conjugates with Boron Clusters

340 **Akira Tohara**, Mitsuo Sato
Inner-hydrogen tautomerism in meso-mixedly substituted, β unsubstituted porphyrins

341 **Alexander Tolbin**, Victor Pushkarev, Larisa Tomilova
First Synthesis of Rare Earth Planar Binuclear Phthalocyanine Complexes

342 **Artak Tovmasyan**, Rouben Aroutiounyan, Nelli Babayan, Genadi Gasparyan, Robert Ghazaryan, Galina Hovhannisyan, Kristine Margaryan, Lida Sahakyan
Novel Cationic Porphyrins and Metalloporphyrins as Potential Photosensitizers and Chemotherapeutics

343 **Olga Trukhina**, Esmeralda Caballero, Elena A. Danilova, Mikhail K. Islyaikin, M. Salome Rodríguez - Morgade, Tomas Torres
Synthesis and properties of Alkoxysubstituted Hexaphyrin Heteroanalogues

344 **Eiji Tsurumaki**, Yasuhide Inokuma, Atsuhiro Osuka
Synthesis and characterizations of meso-aryl subchlorins

345 **Sinem Tuncel**, Vefa Ahsen, Fabienne Dumoulin
Tetraethyleneglycol Substituted Zn (II) Phthalocyanines: A High Water-Solubility For Potential PDT Agents

346 **Elena Tyulyaeva**, Tatyana Lomova
Chemical Oxidation of Some (Porphyrinates)palladium in Aerated Sulfuric Acid

347 **Rabia Zeynep Uslu Kobak**
Synthesis of Novel Aryloxy- and Arylalkyloxy- Substituted Pyrazine-2,3-Dicarbonitriles and their Cyclotetramerisation Studies

348 **Nadezhda Usol'tseva**, Galina Ananjeva, Venera Bykova, Nikolai Galanin, Gennadiy Shaposhnikov, Leonid Yakubov
Synthesis and Properties of meso-mono(4-triphenylmethylphenoxy)tetrabenzoporphyrine and its Zn Complex

349 **Zsolt Valicsek**, Ottó Horváth, György Lendvay
Coordination chemistry of kinetically labile, out-of-plane metalloporphyrins

350 **Cornelus Van Nostrum**, Wim Hennink, Jan Willem Hofman, Cristianne Rijcken, Cornelus van Nostrum
Controlled release of phthalocyanine from thermosensitive polymeric micelles and its photodynamic behavior

351 **Giuseppe Vasapollo**, Agnese De Luca, Roberta Del Sole, Maria Rosaria Lazzoi
Spectral studies on zinc phthalocyanine-nicotinamide complexes

352 **Vanda Vaz Serra**, Cristina Alonso, Maria Faustino, Maria Neves, Artur Silva, Augusto Tomé
Synthesis and structural characterization of new meso-(quinol-6-yl)porphyrin derivatives

353 **Sergei Vinogradov**, Andrei Cheprakov, Sergei Chernov, Artem Lebedev
Dendritic π-extended porphyrins: versatile probes for oxygen in biological environments

354 **Dana Vlascici**
Potentiometric characterization of lead-selective electrodes based on a phenyl disubstituted porphyrin

355 **Konstantin Volkov**, Grigory Avramenko, Evgeny Lukyanets, Vladimir Negrimovsky
Stepwise Substitution in Tetrachlorophthalonitrile

356 **Pavel Volodin**, Yury Belyy, Gelij Ponomarev, Alexander Tereshchenko
Comparative study of photodynamic effects of chlorine photosensitizers on experimental animals intact retina

357 **Yan Voloshin**, S. Korobko, V. Pekhnyo, V. Rudenko, L. Tomachynski, I. Tretyakova, S. Volkov
Synthesis of hovel pyrazinoporphyrazines with dimethoxyphosphonic fragments in the periphery of the macrocycle

358 **Jean Weiss**, Jean-pierre Bucher, Matthieu Koepf, Jennifer Wytko
Synthesis and self-assembling of a phenanthroline strapped Kobuke style dimer

359 **Klaus Wandelt**, Peter Broekmann, Steven De Feyter, Shuhei Furukawa, T. M. Hai Nguyen
Electrochemical formation of Cu-porphyrin: Interfacial copper insertion

360 **James Webb**, Yiing Leong Chin, Maxwell Crossley, Allan Larsen, Pall Thordarson
Capped Porphyrins and Self Assembled Monolayers

361 **Jinping Xue**, Lixuan Cai, Naisheng Chen, Jinling Huang, Hong Liu, Haiyan Yu
Synthesis and Photosensitivity of Znic phthalocyanines Substituted with Quinolinoxy group

362 **Fatma Yuksel**, Vefa Ahsen, Sinem Tuncel
Synthesis and Characterizations of Peripheral octa-Amino and octa-Amido Phthalocyanines

363 **Shigeru Yamaguchi**, Taisuke Katoh, Atsuhiro Osuka, Hiroshi Shinokubo
Synthesis, Characterization, and Properties of Peripherally Cyclometalated Porphyrins

364 **Benjamin Yap**, Maxwell Crossley, Neil Hunter, Grace Simpkins
Porphyrin-antibiotic conjugates for targeted inhibition of Porphyromonas gingivalis

365 **H. Yasemin Yenilmez Akkurt**, Ahmet Gül, Ali Ihsan Okur
Synthesis of phenylazonaphthyl-substituted unsymmetrical phthalocyanines

366 **Atsutoshi Yokoyama**, Takahiko Kojima, Fukuzumi Shunichi
Construction of Conglomerates Composed of a Saddle-Distorted Metalloporphyrin and Heteropolyoxometalates

367 **Gloria Zanotti**, Nicola Angelini, Francesco Ghetti, Francesco Lenci, Anna Maria Paoletti, Giovanna Pennesi, Gentilina Rossi
Sensitizing Effect of nanocrysrtalline TiO_2 films by Phthalocyanine and Porphyrins bridged Systems

368 **Eduard Zenkevich**, Valery Knyukshto, Evgenii Sagun, Eduard Zenkevich
Photophysics of Porphyrin Heterobinuclear Complexes and Multimolecular Systems on Their Basis

369 **Zhan Zhang**, Ji-Young Shin
Three-Stranded Helicate and Mesocate

370 **Viktor Zhdankin**, Ivan Geraskin, Victor Nemykin, Roman Subbotin
Organic Iodine(V) Compounds as Terminal Oxidants in Phthalocyanine Catalyzed Oxidations of Alcohols

371 **Galina Zheltukhina**, Vladimir Nebolsin, Nicolay Nossik, Sergey Zheltukhin
Synthetic hemine-derivatives as virulecide agents and a base for their rational designing

372 **Weihua Zhu**, Karl M. Kadish, Marco Mastroianni, Zhongping Ou, Roberto Paolesse, Manuela Stefanelli
Electrochemistry of germanium(IV) triphenylcorroles

373 **Petr Zimcik**, Miroslav Miletin, Hana Radilova, Jaroslav Svec
Cationic pyrazinoporphyrazines and quinoxalinoporphyrazines as water-soluble photosensitizers for PDT

374 **Serafima Znoyko**, Igor Abramov, Sergey Filimonov, Vladimir Maizlish, Gennady Shaposhnikov
Metal-free benzotryazolylsubstituted phthalocyanines

375 **Yunus Zorlu**, Vefa Ahsen, Ross Boyle, Fabienne Dumoulin
Non-ionic water-soluble phthalocyanines: remarkable effect of glycerol substitution

Friday 11 July, 2008 - AM

Plenary Lecture

Large Hall

Chaired by: Roberto Paolesse

09:00 to 10:00

John Shelnutt

Porphyrins and Porphyrin Nanostructures: Their Use in Directing Nanoscale Metal Morphology

Symposia Lectures

Synthesis of Porphyrins and Phthalocyanines

Red Hall

Chaired by: Eugeniy Luk'yanets and Yoshiaki Kobuke

10:30 to 11:00

Nagao Kobayashi, Evgeny Luk'yanets, Elena Makarova, Atsushi Matsuda, Soji Shimizu, Yuichi Takeuchi

Synthesis of and Comparison of Properties between meso-Triaryl Subporphyrins and -Tribenzosubporphyrins

11:00 to 11:20

Andrey Mironov

Synthesis of Triazol-Bound Conjugates of Natural Chlorins and Bacteriochlorins with Carbohydrates and Boron Clusters

11:20 to 11:40

Sergiu Gorun

Hydrogen-free Phthalocyanines: Synthesis, Structural Properties and Reactivity

11:40 to 12:00

Mathias O. Senge

Synthetic Approaches Towards Unsymmetrically Substituted Porphyrins and Porphyrin Arrays

12:00 to 12:20

Nathalie Solladié

Polypeptides with Functionalized Pendant Porphyrins for Self-Assembling Processes and the Elaboration of Novel Type of Glues.

12:20 to 12:40

Hiroaki Isago, Harumi Fujita, Yutaka Kagaya, Kyoko Miura, Youichi Oyama

Synthesis of novel hydrophilic phthalocyanines containing antimony as the central element

FRIDAY

Porphyrin and Phthalocyanine Analogues

Blue Hall

Chaired by: Pavel Stuzhin and Lechosław Latos-Grażyński

10:30 to 11:00
Lechoslaw Latos-Grazynski
Porphyrinoids Acting as Aromaticity Switches

11:00 to 11:20
Andrew Cammidge, Isabelle Chambrier, Hemant Gopee
Core-Modified Porphyrins and Phthalocyanines

11:20 to 11:40
Yoshihiro Matano
Syntheses, Structures, and Coordination Chemistry of Phosphorus-Containing Hybrid Porphyrinoids

11:40 to 12:00
Elena Makarova, Semyon Dudkin, Takamitsu Fukuda, Nagao Kobayashi, Evgeny Lukyanets
Design and Synthesis of Tetraazachlorins, Tetraazabacteriochlorins and Tetraazaisobacteriochlorins

12:00 to 12:20
Christopher Ziegler, Natalie Barone, Anil Cetin, William Durfee, Saovalak Sripothongnak, Ruoqui Wu
The Metal Binding Chemistry of the Dicarbahemiporphyrazine Macrocycle

12:20 to 12:40
Akiharu Satake, Yoshiaki Kobuke, Toshimasa Sugimura
Coordination-induced Selective Transformation of Complementary Porphyrin-Phthalocyanine Dimer

FRIDAY

Materials

Beige Hall

Chaired by: Neil McKeown and Craig Medforth

10:30 to 11:00
Tomas Torres, Giovanni Bottari, Juan-Jose Cid, Gema de la Torre, Andreas Gouloumis, Michael Grätzel, Dirk M. Guldi, Md. K. Nazeeruddin, Emilio Palomares
Phthalocyanines for solar cell applications

11:00 to 11:20
Asim Ray, Tamara Basova
Electronics with dyes

11:20 to 11:40
Carl Wamser, Michael Walter
Conductive Polymers of Aminophenylporphyrins: Mechanisms for Polymerization and Electronic Conductivity

11:40 to 12:00
Tamotsu Inabe
Design of magneto-transport properties in axially-ligated phthalocyanine molecular conductors

12:00 to 12:20
Walter Smith, Benjamin E. Feldman, C. Kent Riley, Andrew L. Yeats
Photoelectronic properties of self-assembled porphyrin nanowires

12:20 to 12:40
Katsuhiko Ariga
Supramolecular Materials from Molecular Bottom: Porphyrin Molecular Array and Novel Nanocarbon

Coordination Chemistry

Green Hall

Chaired by: Claudio Ercolani and Larisa Tomilova

10:30 to 11:00
M. Salome Rodriguez-Morgade, Esmeralda Caballero, Angel J. Jimenez, Tomas Torres
Metal-Linked Multicomponent Complexes Based on Phthalocyanines

11:00 to 11:20
Mikio Nakamura
Fine Tuning of Heme Electronic Structure by Means of Axial Ligands and Core Modification

11:20 to 11:40
Luigi Monsu' Scolaro
Role of counter-anions on the aggregation properties of protonated porphyrins in organic solvents

11:40 to 12:00
Masaaki Tabata, Jun Nishimoto
Equilibrium Studies on Selective Phase-Transfer Reaction of Li(I) into Ionic Liquid with Water-soluble Octabromoporphyrin

12:00 to 12:20
Dmitry Berezin, Boris Berezin
Associative and Dissociative Donor-Acceptor Processes With a Porphyrin Coordination Centre Participation

12:20 to 12:40
Marija Klyueva
Modern State of Coordination Chemistry of Manganeseporphyrins

Friday 11 July, 2008 - PM

Symposia Lectures

Synthesis of Porphyrins and Phthalocyanines

Red Hall

Chaired by: Michael Hanack and Tomas Torres

14:10 to 14:30
Michael J Cook, Isabelle Chambrier
Oligomeric Cadmium Phthalocyanines: Self-assembled EPR Acive Complexes

14:30 to 14:50
M.Victoria Martinez-Diaz, Giovanni Bottari, Ismael Lopez-Duarte, Maurizio Quintiliani, Tomas Torres
Ruthenium(II)phthalocyanines for Dye Sensitized Solar Cells

14:50 to 15:10
Maxwell Crossley
Nitration and Elaboration of the Porphyrin Periphery

15:10 to 15:30
Neil McKeown, C. Grazia Bezzu, Madeleine Helliwell
Nanoporous phthalocyanine cubic crystals containing massive solvent–filled voids.

15:30 to 15:50
Alan E. Rowan
The Chromophore Foundry

15:50 to 16:10
Johan van Lier, Hasrat Ali
Functionalization of Porphyrins and Phthalocyanines using Palladium Catalyst in Aqueous Medium

FRIDAY

Hemoproteins and Natural Pigments

Green Hall

Chaired by: Anabella Ivancich and John Dawson

14:10 to 14:30
Shigetoshi Aono
The Molecular Mechanism of Functional Regulation of the Heme-based Sensor Proteins

14:30 to 14:50
Koichiro Ishimori, Kazuhiro Iwai, Chihiro Kitatsujia, Atsushi Nakamura, Mark R. O'Brian
A Unique Heme-mediated Oxidation Mechanism in Iron Responsible Regulator

14:50 to 15:10
Giulietta Smulevich, Paolo Ascenzi, Gabriella Fanali, Mauro Fasano, Maria Fittipaldi, Barry D. Howes, Francesco Nicoletti
Ibuprofen binding to heme-Human Serum Albumin induces marked conformational changes: an allosteric modulation

15:10 to 15:30
Paola Turano
NMR for the characterization of heme proteins and their interactions

15:30 to 15:50
Mario Rivera, Juan C. Rodriguez, An Wang, H. Yao
Probing Dynamic-Reactivity Relationships in Heme Oxygenase by NMR Relaxation Experiments

15:50 to 16:10
Masao Ikeda-Saito, Toshitaka Matsui, Masaki Unno
Structure and Molecular Mechanism of Heme Oxygenase Catalysis

Materials

Beige Hall

Chaired by: John Shelnutt and Craig Medforth

14:10 to 14:30
Craig Medforth, John Shelnutt, Zhongchun Wang
Self-Assembled Porphyrin Nanostructures

14:30 to 14:50
Yujiang Song, Rachel Dorin, Robert Garcia, Craig Medforth, Yan Qiu, John Shelnutt, Haorong Wang
Controlled Synthesis of Platinum Nanostructures Using Tin(IV) Porphyrins

14:50 to 15:10
Sergei Vinogradov, Olga Finikova, Artem Lebedev
Two-Photon-Enhanced Nanoprobes for Oxygen Microscopy

15:10 to 15:30
Irene Noemi Rezzano, Viviana Campodall' Orto
Supported Bimetallic Polymers of Porphyrins as NewHeterogeneous Catalyst

15:30 to 15:50
Chen Wang
Self-assembly of low dimensional molecular nanostructures

15:50 to 16:10
Taku Hasobe
Construction of porphyrin-based supramolecular nanoassemblies for optoelectronic device applications

Plenary Lecture

Large Hall

Chaired by: Harry B.Gray

16:40 to 17:40
Daniel G Nocera
Pyrrole-Based Metal Complexes for Water Oxidation