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Foreword

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Foreword

The present issue of Supramolecular Chemistry contains selected papers presented at the *Xth International Symposium on Molecular Recognition and Inclusion* which was held in June 20–25, 1988, in Warsaw, Poland.

The series of the above mentioned symposia has begun in 1980 in Jachranka (Warsaw) with rather small meeting on “*Clathrate Compounds and Molecular Inclusion Phenomena*”. Participants of the conference have put forward several important initiatives: a new scientific journal (present name: *Journal of Inclusion Phenomena and Molecular Recognition*, published since 1984), a book series (*Inclusion Compounds*, volumes 1–3 published by Academic Press, volumes 4–5 by Oxford University Press) and regular symposia organized biannually (1982 – Parma, 1984 – Tokyo, 1986 – Lancaster, 1988 – Orange Beach, 1990 – Berlin, 1992 – Kyoto, 1994 – Ottawa, 1996 – Lyon), just to mention the most significant ones. From rather small meetings the symposia have grown up to more than 300 participants attending the recent events. The original name, which had been borrowed from a monograph paper published by David D. MacNicol, has been transformed into the one given above at the Berlin meeting in 1990, by the initiative of Wolfram Saenger. Finally, at the meeting of the International Advisory Board of the Symposia series during the conference in Warsaw, it has been decided that the official title of the conferences be *International Symposium on Supramolecular Chemistry*. The next conference to be held in Fukuoka (Japan, Organizer: Professor Yasuhiro Aoyama) will use this title.

The new title very well represents the broad area of scientific topics covered by the Symposia recently. It may be seen while consulting the list of talks presented at the Warsaw conference:

Opening lecture

Jean-Marie Lehn – “*Perspectives in Supramolecular Chemistry: From Molecular Recognition towards Self-Organization*”.

Keynote lectures

Fumio Toda – “*Enantioselective Inclusion Crystallization*”

Ronald Breslow – “*Selective Oxidations in Molecular Inclusion Compounds*”

Seiji Shinkai – “*Porphyryns as a Building-block for Molecular Recognition*”

Hans-Jörg Schneider – “*Synthetic Allosteric Systems and Molecular Switches*”

Rocco Ungaro – “*Calixarenes in Molecular Recognition and Separation Science*”

David N. Reinhoudt – “*Self-Assembly of Nanostructures and in situ Formation of Cavities*”

Wojciech Stec – “*Consequences of P-Chirality of Oligo(Nucleoside Phosphorothioate) S – Selected Examples*”

Peter B. Dervan – “*Regulation of Gene Expression by Synthetic DNA Binding Ligands*”

G. Michael Blackburn – “*Catalytic Antibodies - Programmable Transformations for Chemistry and Medicine*”

Toschitake Iwamoto – “*Chemical Architecture of Mineralomimetic Multidimensional Structures*”

Claude Hélele – “Sequence-specific Recognition of the DNA Double Helix and Control of Gene Expression”

Yurii A. Dyadin – “Clathrate Hydrates of Noble Gases at High Pressures”

Invited lectures

William L. Duax – “Ion Selectivity and Transport in Membrane Channels”

Georges Wipff – “Computer Simulations on Liquid-Liquid Interfaces: the Border Where All Kinds of Molecules and Ions Can Meet”

Mike Zaworotko – “From Molecules to Crystals... and Back Again”

Yasuhiro Aoyama – “Molecular Recognition and Catalysis in Organometallic Zeolites”

Robert S. Vagg – “Molecular Recognition Between Nucleic Acids and Some Chiral Ternary Metallointercalators”

Sergey A. Andronati – “Structure-Functions Relationships of Ligands of the Benzodiazepine and Serotonine Receptors”

Mikiji Miyata – “Comprehensive Inclusion Compounds of Steroids”

Thomas C.W. Mak – “Novel Inclusion Compounds with Urea/Thiourea/Selenourea-Anion Host Lattices”

Reiko Kuroda – “Molecular Chirality Recognized by Achiral Compounds”

Jozsef Szejtli – “Report on the 9th International Symposium on Cyclodextrins”

Franz P. Schmidtchen – “Design and Energetics of Novel Anion Receptors”

Jerald S. Bradshaw – “The Design of Ion Selective Macrocycles and the Solid-Phase Extraction of Ions Using Molecular Recognition Technology”

Zbigniew Jedliński – “Supramolecular Catalysis with Alkali Metal Complexes”

Roger Bishop – “Helical Tubular Inclusion Hosts: Fine-Tuning the Canals”

Ivan Stibor – “Factors Governing the Inclusion of Neutral Guests into Cavity of Calix[4]arene in Solution”

André Collet – “Advances in the Area of Cyclotriveratrylenes and Cryptophanes”

Linda Jen-Jacobson – “Energetics of Sequence-Specific Protein-DNA Interactions”

George Gokel – “Synthetic, Transmembrane, Cation-Conducting Channels”

Thomas L. James – “Solution Structure of a Prion Protein: Implications for Infectivity”

Marvin H. Caruthers – “Synthesis of New Oligonucleotide and Phosphopeptide Analogs”

Luigi Nassimbeni – “Selective Enclathration”

Tetsuo Osa – “Supramolecular Properties of a Poly(acrylic acid) Coating Graphite Felt Electrode for Stereoselective Electromediated Reactions”

Vitaly I. Kalchenko – “Inherently Chiral Phosphorus-Containing Calix[4]arenes”

John Ripmeester – “Time-resolved Studies of Clathrate Hydrate Formation with Hyperpolarized Xenon NMR Spectroscopy”

Invited talks

Michaele J. Hardie – “Supramolecular Assemblies of 1,2-Dicarbododecaborane(12) and Container Molecules”

Ingeborg Csöreg – “The Role of Chloro Substituents in Solid Inclusion Formation”

Jun Nishimura – “Photochemical Syntheses and Ionophoric Properties of Crownphanes, Crownpaddlanes, and Cryptophanes”

Cristina Vicent – “Hydrogen Bonding and Cooperativity Effects on Carbohydrate Recognition”

Yoav Eichen – “Self-Assembly of Nanoelectronic Components and Circuits: A DNA Templated Self-Assembly of a Conductive Metal Wire Connecting Two Electrodes”

Leonard R. MacGillivray – “Crystal Engineering and Molecular Recognition: Multi-component Calix[4]resorcinarenes

Cakir Erk – “The Cation Complexing and Stereochemistry of Macrocycles with NMR”

Luba Tchertanov – “Anion Binding in Proteins. Toward Understanding from Studies of Small Molecular Structures”

Ashwini Nangia – “Supramolecular Wheel-and-Axle Host-Guest Compounds”

T. Strunz – “Molecular Recognition between Antibody and Antigen seen by Scanning Force Microscopy”

Leonard J. Prins – *“Induced Chirality in a Hydrogen Bonded Assembly”*

Ivan Huc – *“Dynamic Combinatorial Chemistry: Template Effects in Combinatorial Systems”*

Alexey V. Eliseev – *“Molecular Recognition and Dynamic Combinatorial Chemistry”*

Daniel P. Funeriu – *“Double Subroutine Self-Assembly: a New Concept for the Generation of Nanoscale Inorganic Architectures”*

Sevim Akyuz – *“FT-IR FT-Raman Spectroscopic Investigations of Adsorbed Species by Clays”*

Dmitriy V. Soldatov – *“Molecular Metal Complexes for Supramolecular Systems”*

Roberto Simonutti – *“n-Alkanes and Polymethylene Chains in Aromatic and Saturated Crystalline Nanotubes”*

Paolo Finocchiaro – *“Synthesis, X-Ray Structure and Clathration Properties of Some Macrocycles Possessing Phosphonic Groups in the Aryl Rings”*

Willem Verboom – *“Cavitand-Based Receptors and Assemblies”*

Yurii A. Simonov – *“Inclusion Compounds: Inorganic Fluorides - Macrocycles”*

Krishna N. Ganesh – *“Chiral Peptide Nucleic Acids: Design, Synthesis and Molecular Recognition of DNA”*

Stephen Faulkner – *“Energy Transfer Processes in Kinetically Stable Lanthanide Complexes Bearing Aromatic Antennae”*

Lysander A.J. Christoffels – *“Selective Anion Transport by Neutral Carriers Through Supported Liquid Membranes”*

Giorgio Perez – *“Reactions in Mesoporous Solid Acids”*

Roberto Purrello – *“Porphyrin Assembly and Molecular Recognition Processes”*

Fumio Hamada – *“Molecular Sensing by Bis-Anthranilated Modified Cyclodextrins”*

Hubertus F.M. Nelissen – *“Porphyrin Binding by a Tris(bipyridyl) Ruthenium(II) Complex Containing Six Peripheral Cyclodextrin Binding Sites”*

Helena Dodziuk – *“Are Molecular Mechanics and Molecular Dynamics Suitable Tools for Analysis of Molecular and Chiral Recognition by Cyclodextrins”*

Mario Pelka – *“Binding of Biological Structures in Water with Lewis-Acidic metal Complexes of Azamacrocycles”*

Włodzimierz Kutner – *“Polycondensation Cyclodextrin Polymer Films for Development of Modified Electrodes for Sensor and Biosensor Applications”*

Angiolina Comotti – *“¹³C, ³¹P and ¹²⁹Xe NMR of Cyclotriphosphazene Inclusion Compounds”*

Andrey Yu. Manakov – *“Discovery of the Methane Hydrate in the Sediments of Lake Baikal”*

Maria Gdaniec – *“Chiral Recognition of N-nitrosopiperidines by the Host Matrices of Steroidal Bile Acids”*

Closing lecture

Jerry L. Atwood (USA) – *“Spherical Container Assemblies”*

Although the present issue contains just part of the above listed rich content of the Symposium it is hoped the readers can get much satisfaction studying the papers.

Co-organizers of the Symposium

Prof. Janusz Jurczak

Prof Janusz Lipkowski

Note from the Guest Editor:

I ask the Authors of papers presented here to forgive the delay in preparation of the issue.

Janusz Lipkowski*

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