

Provisional Program of ISMSC2019

Date: Sunday, 02/Jun/2019

2:30pm - 3:30pm Opening Remarks: Welcome Addresses

Teatro Apollo

3:30pm - 5:05pm Opening I: Molecular Machines and Surface Self-Assembly

Teatro Apollo

5:05pm - 5:35pm Coffee Break I: Sunday Afternoon

Castello Carlo V

5:35pm - 6:55pm Opening II: Molecular Machines and Surface Self-Assembly

Teatro Apollo

7:00pm - 9:00pm Opening: Welcome Cocktail

Monastero degli
Olivetani

Date: Monday, 03/Jun/2019

8:30am - 10:20am Monday Session I: Cages, Frameworks, and Magnets

Tiziano Room

10:20am - 10:50am Coffee Break II: Monday Morning

Swimming Pool area /
Tiziano Hall

10:50am - 12:20pm Monday Session II: Crystal Engineering

Tiziano Room

12:20pm - 1:50pm Monday: Lunch

Monastero degli
Olivetani

1:50pm - 3:50pm Monday Session III: Noncovalent Interactions

Tiziano Room

3:50pm - 4:20pm Coffee Break III: Monday Afternoon

Swimming Pool area /
Tiziano Hall

4:20pm - 5:40pm Monday Session IV: Bioinspired Materials

Tiziano Room

5:40pm - 6:50pm Monday Session V: Short Papers I

Tiziano Room

7:00pm - 8:30pm Monday Session VI: Poster Session I

Monastero degli
Olivetani

Date: Tuesday, 04/Jun/2019

8:30am - 10:30am Tuesday Session I: Soft Materials I

Tiziano Room

10:30am - 11:00am Coffee Break IV: Tuesday Morning

11:00am - 12:25pm Tuesday Session II: Soft Materials II

Tiziano Room

12:25pm - 2:00pm Tuesday: Lunch

Monastero degli
Olivetani

2:00pm - 4:00pm Tuesday Session III: Supramolecular Polymers I

Tiziano Room

4:00pm - 7:00pm Tuesday Afternoon: Free Time

7:00pm - 8:00pm Tuesday Evening: Concert of the Polyphonic Choir of the University of Salento

Tiziano Room

Date: Wednesday, 05/Jun/2019

8:30am - 9:40am Tiziano Room	Wednesday Session I: Sensing and Detection
9:40am - 10:30am Tiziano Room	Wednesday Session II: Short Papers II
10:30am - 11:00am Swimming Pool area / Tiziano Hall	Coffee Break V: Wednesday Morning
11:00am - 12:25pm Tiziano Room	Wednesday Session III: Synthetic Receptors
12:25pm - 2:00pm Monastero degli Olivetani	Wednesday: Lunch
2:00pm - 3:50pm Tiziano Room	Wednesday Session IV: Award Ceremony
3:50pm - 4:20pm Swimming Pool area / Tiziano Hall	Coffee Break VI: Wednesday Afternoon
4:20pm - 6:55pm Tiziano Room	Wednesday Session V: Nanomedicine
7:00pm - 8:30pm Monastero degli Olivetani	Wednesday Session VII: Poster Session II
8:30pm - 11:30pm	Gala Banquet: Chostro dei Domenicani

Date: Thursday, 06/Jun/2019

9:00am - 10:15am Tiziano Room	Thursday Session I: Molecular Motors and Host-Guest Systems
10:15am - 10:30am Tiziano Room	Thursday Session II: Short Papers III
10:30am - 11:00am Swimming Pool area / Tiziano Hall	Coffee Break VII: Thursday Morning
11:00am - 12:35pm Tiziano Room	Thursday Session III: Supramolecular Polymers II
12:35pm - 1:00pm Tiziano Room	Final Session: Concluding Remarks

Presentations

Opening I: Molecular Machines and Surface Self-Assembly

Time: Sunday, 02/Jun/2019: 3:30pm - 5:05pm · *Location:* Teatro Apollo

3:30pm - 4:15pm

A Decade of Radical Chemistry by the Trabolsi School

Fraser Stoddart

Northwestern University, United States of America

4:15pm - 4:45pm

Playing with Molecular Rings and Strings: from Switches to Motors

Alberto Credi^{1,2}

¹CLAN-Center for Light Activated Nanostructures, Consiglio Nazionale delle Ricerche and Università di Bologna, via Gobetti 101, 40129 Bologna, Italy; ²Dipartimento di Scienze e Tecnologie Agro-alimentari, Università di Bologna, viale Fanin 50, Bologna, Italy

4:45pm - 5:05pm

Hydrazone-Based Switches and Functional Materials

Ivan Aprahamian

Dartmouth College, United States of America

Opening II: Molecular Machines and Surface Self-Assembly

Time: Sunday, 02/Jun/2019: 5:35pm - 6:55pm · *Location:* Teatro Apollo

5:35pm - 6:05pm

The Roles of Intrinsic Barriers and Crystal Fluidity in Molecular and Supramolecular Amphidynamic Crystals of Molecular Rotors

Miguel Garcia Garibay

Department of Chemistry and Biochemistry, University of California, Los Angeles

6:05pm - 6:35pm

Surface Supramolecular Chemistry: Creating Two-dimensional Supramolecular Assemblies

Neil Champness

University of Nottingham, United Kingdom

6:35pm - 6:55pm

Functionalization of 2D Materials: A (Supra)Molecular Approach

Steven De Feyter

KU Leuven, Belgium

Monday Session I: Cages, Frameworks, and Magnets

Time: Monday, 03/Jun/2019: 8:30am - 10:20am · *Location:* Tiziano Room

8:30am - 9:00am

Self-Assembly of Archimedean/non-Archimedean Solids Under Mathematical Restriction

Makoto Fujita

University of Tokyo, Japan

9:00am - 9:20am

Global Aromaticity in Macrocyclic Polyradicaloids and Molecular Cages

Jishan Wu

National University of Singapore, Singapore

9:20am - 9:40am

Porous Framework Materials: Spheres, Films and Membranes

Rahul Banerjee

Indian Institute of Science Education and Research (IISER) Kolkata, India

9:40am - 10:00am

Subphthalocyanines: Singular Aromatic non-Planar Molecules

Tomas Torres

Universidad Autonoma de Madrid, Spain

10:00am - 10:20am

Magnetic Molecules and their Assembly: Exploring their Potential for the Second Quantum Revolution

Roberta Sessoli

Università degli Studi di Firenze, Italy

Monday Session II: Crystal Engineering

Time: Monday, 03/Jun/2019: 10:50am - 12:20pm · *Location:* Tiziano Room

10:50am - 11:20am

Crystal Engineering: Then and Now

Michael Zaworotko

University of Limerick

11:20am - 11:40am

Tuning Luminescence and Photoreactivity in Organic Co-Crystals and Salts

Fabrizia Grepioni

University of Bologna, Italy

11:40am - 12:00pm

Structural Flexibility in the Solid State – Implications for Porous Materials

Len Barbour

University of Stellenbosch, South Africa

12:00pm - 12:20pm

MOFs at the Biointerface

Christian James Doonan

The University of Adelaide, Australia

Monday Session III: Noncovalent Interactions

Time: Monday, 03/Jun/2019: 1:50pm - 3:50pm · *Location:* Tiziano Room

1:50pm - 2:20pm

The Four Seasons

Giuseppe Resnati

Politecnico di Milano, Italy

2:20pm - 2:40pm

Perspectives in Molecular Tectonics

Mir Wais Hosseini

University of Strasbourg, France

2:40pm - 3:00pm

Supramolecular and Flexible Organic Frameworks for Drug and Nucleic Acid Delivery

Zhanting Li

Fudan University, People's Republic of China

3:00pm - 3:20pm

Structural Stabilization of Liquid Active Ingredients into Crystals

Alessia Bacchi

Università di Parma, Italy

3:20pm - 3:50pm

Functional Supramolecular Chemistry

Stefan Matile

University of Geneva, Switzerland

Monday Session IV: Bioinspired Materials

Time: Monday, 03/Jun/2019: 4:20pm - 5:40pm · *Location:* Tiziano Room

4:20pm - 4:50pm

Supramolecular Peptide and Metabolite Assemblies: Physiology, Pathology and Nanotechnology

Ehud Gazit

Tel Aviv University, Israel

4:50pm - 5:20pm

Cholesterol Assembly from Lipid Membranes in Relation to Atherosclerosis

Lia Addadi

Weizmann Institute of Science, Israel

5:20pm - 5:40pm

Supramolecular Strategies for Cell Delivery and Cytoskeleton Mimics

Javier Montenegro

CIQUS (university of Santiago de Compostela), Spain

Monday Session V: Short Papers I

Time: Monday, 03/Jun/2019: 5:40pm - 6:50pm · Location: Tiziano Room

5:40pm - 5:45pm

Metal-induced Folding in Supramolecular Complexes: Gas Phase Studies Using Fourier Transform Ion Cyclotron Resonance Mass Spectrometry and Density Functional Theory

David Dearden

Brigham Young University, United States of America

5:45pm - 5:50pm

Dynamics in Host-Guest Systems: A GEST NMR Study

Liat Avram

The Weizmann Institute of Science, Israel

5:50pm - 5:55pm

Artificial Water Channels-Toward Natural Selection of Functions

Mihail Barboiu

Institut Europeen des Membranes, France

5:55pm - 6:00pm

Synthesis, Self-Assembly, and Hydrogel Actuator Performance of Sequence-Defined Viologen-based Crosslinkers

Jonathan C. Barnes

Washington University in St. Louis, United States of America

6:00pm - 6:05pm

Anion Triple Helicates: Self-Assembly Directed by Halogen Bonding

Orion Boyd Berryman

University of Montana, United States of America

6:05pm - 6:10pm

Multicomponent Supramolecular Polymers as a Platform for the Design of Modular Glycoconjugate Vaccines

Pol Besenius

Institute of Organic Chemistry, Johannes Gutenberg-University Mainz, Germany

6:10pm - 6:15pm

Conformational Control of Conjugated Molecules and Macromolecules through Dynamic Noncovalent Bonds

Lei Fang

Texas A&M University, United States of America

6:15pm - 6:20pm

Governing the DNA-Binding Mode of Styryl Dyes – from Intercalation to Major Groove Binding

Olga A. Fedorova

A. N. Nesmeyanov Institute of Organoelement compounds, Russian Federation

6:20pm - 6:25pm

“Hypervalent” Halogen Bond Donors in Organocatalysis

Stefan Matthias Huber

Ruhr-University Bochum, Germany

6:25pm - 6:30pm

Supramolecular Fullerene Sponges as Masks for Stepwise Regioselective Equatorial Functionalization of C60 Fullerene

Xavi Ribas

Universitat de Girona, Spain

6:30pm - 6:35pm

Living Supramolecular Polymerization: Its Visualization and Manipulation by High-Speed Atomic Force Microscopy

Kazunori Sugiyasu

National Institute for Materials Science, Japan

6:35pm - 6:40pm

Custom-tailored Self-assembled Nanotubes through Hierarchical Coupling of Cooperative Interactions

David Gonzalez-Rodriguez

Universidad Autonoma de Madrid, Spain

6:40pm - 6:45pm

Development of Smart Supramolecular 3D Printing Materials

Chenfeng Ke

Dartmouth College, United States of America

6:45pm - 6:50pm

Crystalline Cyclophane-Protein Cage Frameworks for Simultaneous Organic and Inorganic Host-Guest Chemistry

Mauri A. Kostainen

Aalto University, Finland

Tuesday Session I: Soft Materials I

Time: Tuesday, 04/Jun/2019: 8:30am - 10:30am · *Location:* Tiziano Room

8:30am - 9:00am

Control and Crystallization in Supramolecular Gels

Jonathan Steed

Durham University, United Kingdom

9:00am - 9:20am

Gigadalton Assemblies and Multivalent Scaffolds by Rational Peptide Design

Beate Kokschi

Freie Universität Berlin, Germany

9:20am - 9:40am

Synthesis of Biopolymer Mimics via Topochemical Reactions

Kana Meethaleveetil Sureshan

IISER Thiruvananthapuram, India

9:40am - 10:00am

Controlling Dynamic Interfacial Self-Assembly in Functional Materials

Oren A. Scherman

University of Cambridge, United Kingdom

10:00am - 10:15am

Metallo-Protein-inspired Coordination Environments in G-Quadruplex DNA

Guido H. Clever

TU Dortmund University, Germany

10:15am - 10:30am

Stand-alone and Networked Multicomponent Catalytic Machinery: How the Machine Speed Impacts Catalytic Activity

Michael Schmittel

University of Siegen, Germany

Tuesday Session II: Soft Materials II

Time: Tuesday, 04/Jun/2019: 11:00am - 12:25pm · *Location:* Tiziano Room

11:00am - 11:30am

Using Molecular Motions for Functional Supramolecular Chemistry

Samuel Stupp

Northwestern University, United States of America

11:30am - 11:50am

Chemically-Fuelled Self-Assembly as a Tool to Control Reactivity in Complex Systems

Leonard Prins

University of Padova, Italy

11:50am - 12:10pm

Coupling Chemical Reactivity to the Behavior of Soft Materials

Rienk Eelkema

Delft University of Technology, Delft, the Netherlands

12:10pm - 12:25pm

Potential-Dependent Electrochemiluminescence for Selective Molecular Sensing of Cyanide

Jong-In Hong

Seoul National University, Korea, Republic of (South Korea)

Tuesday Session III: Supramolecular Polymers I

Time: Tuesday, 04/Jun/2019: 2:00pm - 4:00pm · *Location:* Tiziano Room

2:00pm - 2:30pm

Noncovalent Macromolecular Synthesis of Advanced Functional Materials

Takuzo Aida

Riken Center for Emergent Matter Science, 2-1 Hirosawa, Wako, Saitama 351-0198, Japan

2:30pm - 3:00pm

Supramolecular Polymerizations and Chirality – a Happy Marriage

Bert Meijer

Eindhoven University of Technology

3:00pm - 3:30pm

Multiresponsive Polymeric Microstructures with Encoded Predetermined and Self-Regulated Deformability

Joanna Aizenberg

Harvard University, United States of America

3:30pm - 3:45pm

Dynamics of CO₂ and Xe and Ultra-fast Molecular Rotors in Porous Crystals

Angiolina Comotti

University of Milano Bicocca, Italy

3:45pm - 4:00pm

Resolution of “Irresolvable” Fluxional Pillararene Conformers à la Pasteur

Andrew C.-H. Sue

Tianjin University, P. R. China

Wednesday Session I: Sensing and Detection

Time: Wednesday, 05/Jun/2019: 8:30am - 9:40am · *Location:* Tiziano Room

8:30am - 9:00am

Supramolecular Methods for Rapid ee and dr Reaction Screening

Eric Anslyn

The University of Texas at Austin, Department of Chemistry, Austin TX 78712

9:00am - 9:20am

Stimuli-Responsive Molecular Baskets Capable of Removing/Releasing Targeted Molecules in Water

Jovica Badjic

The Ohio State University, United States of America

9:20am - 9:40am

Metal-salophen complexes: versatile derivatives for the study of supramolecular interactions

Antonella Dalla Cort

Università La Sapienza, Italy

Wednesday Session II: Short Papers II

Time: Wednesday, 05/Jun/2019: 9:40am - 10:30am · Location: Tiziano Room

9:40am - 9:45am

From Molecular Recognition to Functional Solids

Christer Aakeroy

Kansas State University, United States of America

9:45am - 9:50am

A Covalent Organic Cage Compound Acting as a Supramolecular Shadow Mask for the Regioselective Functionalization of C60

Florian Beuerle

Universität Würzburg, Germany

9:50am - 9:55am

Supramolecular Tubules with Life-Like Mechanical Function

Tibor Kudernac

University of Twente, Netherlands, The

9:55am - 10:00am

New Type of Rotaxane Dendrimers Towards Drug Encapsulation and Delivery

Ken Cham-Fai Leung

The Hong Kong Baptist University, Hong Kong S.A.R. (China)

10:00am - 10:05am

Subphthalocyanine-based molecular tweezers for selective complexation of fullerenes

M. Victoria Martinez-Diaz

Universidad Autonoma de Madrid

10:05am - 10:10am

Cyclobenzoins: New Hosts for Atomically Thin Guests?

Ognjen Miljanic

University of Houston, United States of America

10:10am - 10:15am

Construction of Photoactive Supramolecular Coordination Cages

Evan G. Moore

The University of Queensland, Brisbane, 4072, Australia

10:15am - 10:20am

Organic and Organometallic Porphyrin Dendrimers for Optics

Christine Odile PAUL-ROTH

Univ Rennes, INSA Rennes, CNRS, ISCR (Institut des Sciences Chimiques de Rennes) – UMR 6226, F-35000 Rennes, France

10:20am - 10:25am

Hybrid Suprastructures for Biomedical Applications

Claudia Pigliacelli

Aalto University, Finland

10:25am - 10:30am

Photoswitching DNA-Templated Supramolecular Assemblies

Mathieu Surin

University of Mons - UMONS, Belgium

Wednesday Session III: Synthetic Receptors

Time: Wednesday, 05/June/2019: 11:00am - 12:25pm · *Location:* Tiziano Room

11:00am - 11:30am

Interlocked and Foldamer Sigma-hole Host Molecules for Anion Recognition and Sensing

Paul Beer

Chemistry Research Laboratory, University of Oxford, 12 Mansfield Road, Oxford, OX1 3TA, UK

11:30am - 11:50am

Fullerene Nanocontainers that Stabilize Unusual Atoms and Clusters Inside

Luis Echegoyen

University of Texas at El Paso, United States of America

11:50am - 12:10pm

Molecular Nanodevices Controlled by Purely Entropic Linker Domains

Francesco Ricci

University of Rome Tor Vergata, Italy

12:10pm - 12:25pm

Exploiting the Hydrogen Bond Donor/Acceptor Properties of PN-Heterocycles: Selective Anion Receptors for Hydrogen Sulfate

Michael M. Haley

Department of Chemistry & Biochemistry, University of Oregon, Eugene, Oregon, USA

Wednesday Session IV: Award Ceremony

Time: Wednesday, 05/Jun/2019: 2:00pm - 3:50pm · *Location:* Tiziano Room

2:00pm - 2:40pm

From Self-Assembly towards Artificial Virus. The Power of Supramolecular Chemistry

Luisa De Cola

Université de Strasbourg

2:40pm - 3:20pm

Pushing the Limits of Coordination-Driven Self-Assembly: Construction of Giant 2D and 3D Supramolecular Architectures

Xiaopeng Li

University of South Florida, United States of America

3:20pm - 3:50pm

Tuning Properties and Functionality in the Modulated Self-Assembly of Metal-Organic Frameworks

Ross Stewart Forgan

University of Glasgow, United Kingdom

Wednesday Session V: Nanomedicine

Time: Wednesday, 05/June/2019: 4:20pm - 6:55pm · *Location:* Tiziano Room

4:20pm - 4:50pm

Multifunctional Hybrid Interfaces: Applications in Energy and Medicine

Maurizio Prato

University of Trieste, CICbiomaGUNE

4:50pm - 5:20pm

Design of Polymer-Based Systems for Regenerative Medicine and Biosensing

Molly Stevens

Imperial College London, United Kingdom

5:20pm - 5:50pm

Supramolecular Assemblies of Chiral Inorganic Nanoparticles

Nicholas Kotov

University of Michigan, United States of America

5:50pm - 6:20pm

Amphiphilic DNA Nanostructures: Self-assembly and Biological Properties

Hanadi Sleiman

McGill University, Canada

6:20pm - 6:40pm

Supramolecular Approach to Design New Antivirals

Francesco Stellacci

Institute of Materials, EPFL, Lausanne, Switzerland

6:40pm - 6:55pm

Supramolecular Chemotherapy

Feihe Huang

Zhejiang University, People's Republic of China

Thursday Session I: Molecular Motors and Host-Guest Systems

Time: Thursday, 06/Jun/2019: 9:00am - 10:15am · *Location:* Tiziano Room

9:00am - 9:45am

Dynamic Molecular Systems, from Switches to Motors

Ben Feringa

University of Groningen

9:45am - 10:00am

Catalysis in the Supramolecular Resorcinarene Capsule

Konrad Tiefenbacher

University of Basel and ETH Zurich, Switzerland

10:00am - 10:15am

Understanding complexity: Effect of Cations and Guest Size on the Cucurbit[7]uril-Guest Dynamics

Cornelia Bohne

University of Victoria, Canada

Thursday Session II: Short Papers III

Time: Thursday, 06/Jun/2019: 10:15am - 10:30am · *Location:* Tiziano Room

10:15am - 10:20am

Complementary Metallocrowns for Binding an Ionic Salt

Grigore Timco

The University of Manchester, United Kingdom

10:20am - 10:25am

Host-Guest Molecular Recognition of a Tetracorannulene-Perylenediimide with Two Molecules of Fullerene-C60

Tomas Torroba

University of Burgos, Spain

10:25am – 10:30am

Self-Assembly of Adaptive Orthoester Architectures

Max von Delius

University of Ulm, Germany

Thursday Session III: Supramolecular Polymers II

Time: Thursday, 06/Jun/2019: 11:00am - 12:35pm · *Location:* Tiziano Room

11:00am - 11:30am

From Biomimetic Materials to Materials that Mimic Behaviorists' Classical Conditioning

Olli Ikkala

Aalto University, Department of Applied Physics, Molecular materials, P.O. Box 15100, FIN-00076 Aalto, Espoo, Finland

11:30am - 12:00am

From Liquid Quasicrystals and their Approximants to Homochirality and other Early Events of Life via Self-Assembling Dendrons

Virgil Percec

University of Pennsylvania

12:00am - 12:15pm

Mono-and Multilayers of Concertedly Switchable Rotaxanes

Christoph A. Schalley

Freie Universität Berlin, Germany

12:15pm - 12:35pm

Peptide Derived Sensors for Biologically Relevant Phosphate Oxoanions

Katrina Anne Jolliffe

The University of Sydney, Australia