



CD
2019

17th International Conference on Chiroptical Spectroscopy

23-27 June 2019, Pisa, Italy

Programme

Sunday 23 June	
14:00-16:00	Registration
16.00-16.30	Opening
Session 1	Chairperson: Lorenzo Di Bari (University of Pisa)
PL1	<i>Ben Feringa (University of Groningen)</i>
16:30-17:20	Dynamic Molecular Systems from Switches to Motors
IL1	<i>Roberta Sessoli (University of Florence)</i>
17:20-17.50	From Magnetochiral Dichroism to Magnetoelectric Coupling in Molecular Materials
OC1	<i>Simone Ghidinelli (University of Brescia)</i>
17.50-18.10	Magnetic Circular Dichroism and Magnetic Circularly Polarized Luminescence of (thiadiazole)porphyrazines
OC2	<i>Fabrice Pointillart (University of Rennes)</i>
18.10-18.30	Chiral Lanthanide-Based Single-Molecule Magnets
18:30-20:00	Welcome Cocktail

Monday 24 June	
Session 2	Chairperson: Gennaro Pescitelli (University of Pisa)
PL2 9:00-9:45	<i>Bert Meijer (Eindhoven University of Technology)</i> Supramolecular Polymerizations and Chirality – a Happy Marriage
IL2 9:45-10:15	<i>Laure Guy (Université Claude Bernard Lyon 1)</i> Modulation of Chiroptical Properties in an Helicene-like Series
OC3 10:15-10:35	<i>Girish Lakhwani (The University of Sydney)</i> Hierarchical Self-Assembly of Chiral Perylene Imide Based Organogelators Explained
OC4 10.35-10.55	<i>Adriana Pietropaolo (University of Catanzaro)</i> Light-driven Chiral Transitions of Conjugated Polymers Jumping through Their Free-Energy Pathways
10:55-11:30	Coffee Break
Session 3	Chairperson: Anna Painelli (University of Parma)
CEIL1 11:30-12:00	<i>Manuela Schiek (University of Oldenburg)</i> Giant Circular Dichroism Boosted by Excitonic Coupling in Homochiral Prolinol-Derived Squaraine Thin Films
OC5 12:00-12:20	<i>Katsuhiro Maeda (Kanazawa University)</i> One-handed Helical Poly(diphenylacetylene) Derivatives: Synthesis and Their Conformational Analysis
OC6 12:20-12:40	<i>Francesco Salerno (Imperial College London)</i> Study of Helicene-polymer Blend Thin Films with Chiroptical Properties Tunable by Thickness
12:45-14:45	Lunch
14:50-15:20	Koji Nakanishi memoir <i>Nina Berova (Columbia University, New York)</i>
Session 4	Chairperson: Jeanne Crassous (University of Rennes)
CEIL2 15:20-15:50	<i>Colin Nuckolls (Columbia University, New York)</i> Massive Amplification of Chirality in PDI-helicenes
OC7 15:50-16:10	<i>Félix Freire (University of Santiago de Compostela)</i> Sergeants and Soldiers Effect in Chiral Dynamic Helical Copolymers
OC8 16:10-16:30	<i>Birgitt Timmermans (Catholic University of Leuven)</i> Controlled Synthesis and Aggregation Behavior of Star-shaped Conjugated Polymers
16:30-17:00	Coffee Break
Session 5	Chairperson: Gennaro Pescitelli (University of Pisa)
OC9 17:00-17:20	<i>Elisabeth Hillard (University of Bordeaux)</i> Exotic Techniques for the Characterization of Chirality: X-ray Natural Circular Dichroism
17:20-19:20	Poster Session: PO1 – PO42

Tuesday 25 June	
Session 6	Chairperson: Antonio Rizzo (IPCF-CNR, Pisa)
PL3 9:00-9:45	<i>Kenneth Ruud (The Arctic University of Norway, Tromsø)</i> Computational Approaches to Chiroptical Spectroscopy
IL3 9:45-10:15	<i>Sonia Coriani (Technical University of Denmark, Kongens Lyngby)</i> Natural and Magnetically Induced Dichroism Effects by Theoretical Approaches
OC10 10:15-10:35	<i>Marco Caricato (University of Kansas, Lawrence)</i> Configuration Space Analysis of the Specific Rotation of Helicenes
OC11 10:35-10:55	<i>Piero Decleva (University of Trieste)</i> Resonances in Photoabsorption and Photoemission of Chiral Metal Acetylacetonates
11:00-11:30	Coffee Break
Session 7	Chairperson: Benedetta Mennucci (University of Pisa)
CEIL3 11:30-12:00	<i>Mathieu Linares (KTH Royal Institute of Technology, Stockholm)</i> Toward Full First Principles Simulations of ECD Spectra of Complex Bio-molecular Systems
OC12 12:00-12:20	<i>Mathieu Surin (University of Mons)</i> Chiroptical Detection of the Enzymatic Cleavage of DNA through a Supramolecular Approach
OC13 12:20-12:40	<i>Tommaso Giovannini (Norwegian University of Science and Technology, Trondheim)</i> The QM/Fluctuating Charges Approach to Chiroptical Properties and Spectroscopies of Aqueous Solutions
12:45-14:45	Lunch
14.45-15.00	Announcement of CD2021
Session 8	Chairperson: Sergio Abbate (University of Brescia)
CEIL4 15:00-15:30	<i>Christian Merten (University of Bochum)</i> Understanding Solvent Effects on VCD Spectra: Where We Stand and Where We Want to Go
OC14 15:30-15:50	<i>Julien Bloino (Scuola Normale Superiore, Pisa)</i> Accuracy and Interpretability of Simulated Vibrational Spectra for Medium-sized Chiral Molecules
OC15 15.50-16.10	<i>Agnieszka Kaczor (Jagiellonian University, Krakow)</i> Resonance Raman Optical Activity (RROA) – a Unique Tool to Study Biomolecules, Supramolecular Systems and Chirality Induction
16.10-16.40	Coffee break
Session 9	Chairperson: Kenji Monde (Hokkaido University, Sapporo)
OC16 16:40-17:00	<i>Laurence Nafie (Syracuse University)</i> Enhancement Mechanisms of Vibrational Optical Activity
OC17 17.00-17.20	<i>Giuseppe Mazzeo (University of Brescia)</i> Vibrational Excitons in Various Spectroscopic Regions: Examples and Counterexamples
17.30-21.30	Social Event

Wednesday 26 June	
Session 10	Chairperson: Reiko Kuroda (Tokyo University of Science)
PL4 9:00-9:45	Nicholas Kotov (University of Michigan, Ann Arbor) Chiral Inorganic Nanostructures and Their Technological Potential
IL4 9:45-10:15	József Kardos (Eötvös Loránd University, Budapest) New Perspectives in the Structural Analysis of Proteins by ECD Spectroscopy
OC18 10:15-10:35	Steffen Lüdeke (University of Freiburg) Cofactor/Enzyme-Binding Affinity and Geometry: Circular Dichroism of NAD(P)H
OC19 10:35-10:55	Lucie Habartova (University of Chemistry and Technology, Prague) Protein Misfolding and Beyond – Tracking the Process of Neurodegeneration via Chiroptical Spectroscopy of Blood Plasma
10:55-11:30	Coffee Break
Session 11	Chairperson: Daniel Crawford (Virginia Tech, Blacksburg)
IL5 11:30-12:00	Patrick Vaccaro (Yale University, New Haven) Intrinsic Chiroptical Response and Extrinsic Perturbations: Predicting the Right Answers for the Right Reasons
OC20 12:00-12:20	Oriol Arteaga (University of Barcelona) The Fresnel Tripism and the Circular Polarization of Light
OC21 12:20-12:40	Malte Oppermann (EPFL, Lausanne) Capturing the Ultrafast Evolution of Excited State Chirality with Time-Resolved CD in the Deep Ultraviolet
12:45-14:45	Lunch
Session 12	Chairperson: Tibor Kurtán (University of Debrecen)
IL6 14:50-15:20	Li Li (Chinese Academy of Medical Sciences, Beijing), Ultrasound Promoted Specific Chiroptical Sensing for Cysteine in Aqueous Solution and Cells
OC22 15:20-15:40	Mark Koenis (University of Amsterdam) Distinguishing Dihydrosterone amongst 64 Stereoisomers
OC23 15:40-16:00	Jordan Johnson (Vanderbilt University, Nashville) Ring Puckering, Rotatable Substituents, and Vibrational Circular Dichroism: Chiral Molecular Structures of Substituted Indans
16:00-16:30	Coffee Break
Session 13	Chairperson: Francesco Zinna (University of Pisa)
CEIL5 16:30-17:00	Gil Markovich (Tel Aviv University) Symmetry Breaking in the Synthesis of Chiral Lanthanide Phosphate Nanocrystals Probed by Circularly Polarized Luminescence
OC24 17:00-19:20	Frédéric Gendron (University of Rennes) Ab-initio Study of CD and CPL Parameters of Transition Metal and Lanthanide Complexes
17:20-19:20	Poster Session: PO43 – PO84

Thursday 27 June	
Session 14	Chairperson: Piero Decleva (University of Trieste)
CEIL6 9:00-9:30	<i>Valérie Blanchet (University of Bordeaux)</i> Real-time Determination of Enantiomeric and Isomeric Content Using Photoelectron Elliptical Dichroism (PEELD)
OC25 9:30-9:50	<i>Soumen Ghosh (Politecnico Milano)</i> Ultrabroadband Measurement of Complex Chiroptical Response by Balanced Detection Time Domain Interferometry
OC26 9:50-10:10	<i>Pascale Changuenet (Institut Polytechnique Paris)</i> Excited-state Chirality of Binaphthols Studied by Femtosecond Circular Dichroism and Quantum-chemical Calculations
OC27 10.10-10.30	<i>David Ayuso (Max-Born-Institut, Berlin)</i> Locally Chiral Fields for Controlling Chiral Light Matter Interaction
10:30-11:00	Coffee Break
Session 15	Chairperson: Fabrizio Santoro (ICCOM-CNR, Pisa)
OC28 11:00-11:20	<i>Monika Leibscher (University of Kassel)</i> Enantio-selective Excitation in Three-wave Mixing Spectroscopy of Chiral Molecules: Principles and Applications
OC28 11:20-11:40	<i>Anna Painelli (University of Parma)</i> Supramolecular and Plasmonic Chirality: Toy Models
OC30 11:40-12:00	<i>Paolo Biagioni (Politecnico Milano)</i> Slit Arrays for Plasmon-enhanced Vibrational Circular Dichroism
IL7 12.00-12.30	<i>Harald Giessen (University of Stuttgart)</i> Chiral Spectroscopy of 3D Plasmonic Nanostructures – Towards Chiral Sensing?
12.30-12.45	Closing
12:45-14:45	Lunch

Thursday 27 - Friday 28 June	
Workshop	Nanoscale Optical Chirality Organized by Paolo Biagioni (Politecnico Milano) and Lorenzo Di Bari (University of Pisa)