

Conference on Progress in Organic Optoelectronics

18.-19.12.2017, La Nau, Seminar Room 2nd Floor,
Calle de la Universitat 2, Valencia, Spain

Sun, 17.12.2017

17:00-19:00 **Valencia walk** (Plaza Colegio Patriarca, in front of La Nau)

20:00 **Reception** (Restaurante Orió, Calle San Vicente 23)

Mon, 18.12.2017

08:30 Registration

09:00 **Welcome:** B. Milián Medina, L. Lüer, J. Gierschner

09:10-09:30 **Introduction:** *MultiCrom an (Inter)National Project* (J. Gierschner)

Session 1 Novel Materials I [Chair: Johannes Gierschner]

09:30-10:15 Soo Young Park (Seoul Nat. Univ.), **keynote:** *De Novo Strategies for Color-Specific Photoswitching*

10:15-10:30 Junqing Shi (IMDEA Nanoscience, Madrid): *Solid State Luminescence Enhancement in π -Conjugated Materials: Unraveling the Mechanism beyond the Framework of AIE/AIEE*

10:30-11:00 Coffee Break & Poster Session (Seminar Room, 2nd Floor, La Nau)

Session 2 Novel Materials II [Chair: M^a Carmen Ruiz Delgado]

11:00-11:30 Blanca Ros (Univ. Zaragoza), **invited:** *Stimuli-Responsive Materials with Bent-Core Liquid Crystals*

11:30-12:00 Rosario Nuñez (ICMAB, Barcelona), **invited:** *Photoluminescence in Boron Clusters-Containing Molecular Materials*

12:00-12:30 Gianluca Farinola (Univ. Bari), **invited:** *Materials for Optoelectronics from Photosynthetic Microorganisms*

12:00-12:30 Dong Ryeol Whang (Univ. Linz), **invited:** *Artificial Photosynthesis: Learning from Nature*

13:00-14:40 Lunch (Cloister, La Nau)

Session 3 Next Generation Solar Cells [Chair: Larry Lüer]

14:40-15:10 Henk Bolink (ICMol, Valencia), **invited:** *Vapor Phase Deposited Perovskite Solar Cells*

15:10-15:30 Markus Scharber (Univ. Linz): *Progress in Organic Solar Cells*

15:30-16:00 Andreas Distler (ZAE Bayern), **invited:** *Towards the Commercialization of Organic Photovoltaics*

16:00-16:30 Coffee Break & Poster Session (Seminar Room, 2nd Floor, La Nau)

Session 4 Modeling of Processes [Chair: Juan Carlos Sancho García]

16:30-17:00 David Beljonne (Univ. Mons), **invited:** *Probing Local Intermolecular Interactions with Light: Modeling Insights*

17:00-17:30 Daniel Roca (ICMol, Valencia), **invited:** *Non-Adiabatic Chemical Mechanisms of Interest in Organic Optoelectronics*

17:30 Social Activity: Old University visit 17:30-18:30, Library visit 18:30-19:30 (Christmas Concert Chapel 19:30-20:30)

21:00 Conference Dinner (Restaurante Los Sabores, Carrer de Landerer 1)



Tue, 19.12.2017

Session 5 Excited State Design [Chair: Enrique Ortí]

09:00-09:45 Jinsang Kim (Univ. Michigan, Ann Arbor), **keynote**: *Metal-Free Purely Organic Phosphors: Molecular Design and Applications*

09:45-10:15 Juan Carlos Sancho García (Univ. Alicante), **invited**: *Thermally Activated Delayed Fluorescence: Insights from Theory and Simulations at the Nanoscale*

10:15-10:30 Juan Aragón (ICMol, Valencia): *Theoretical Insights into the Charge-Separation and -Recombination Rate Constants in Donor-Acceptor Buckybowl-Based Supramolecular Complexes*

10:30-11:00 Coffee Break & Poster Session (Seminar Room, 2nd Floor, La Nau)

Session 6 Supramolecular Systems [Chair: Daniel Roca]

11:00-11:30 Roland Resel (Univ. Graz), **invited**: *Crystal Structure Solution of Substrate Induced Phases: the Example of a Dicyano-Distyrylbenezene Derivative*

11:30-12:00 Emilio Perez (IMDEA Nanoscience, Madrid), **invited**: *Noncovalent Chemistry of SWNTs Inside Out*

12:00-12:30 Enrique Ortí (ICMol, Valencia), **invited**: *Self-Assembly of Electroactive Systems: From Dimers to Supramolecular Polymers*

12:30-12:45 Nandajan, P. C. (IMDEA Nanoscience, Madrid): *Water-Soluble Highly Fluorescent Low-Dimensional Host-Guest Supramolecular Polymers: Structure and Energy Transfer Dynamics Revealed by Polarized Fluorescence Spectroscopy*

12:45-13:00 Javier Segarra (Univ. Lyon): *Two-Dimensional Electronic Spectroscopy as a Tool to Separate Conformations in Molecular Aggregates*

13:00-14:50 Lunch (Cloister, La Nau)

Session 7 Photoinduced Processes I [Chair: Juan Aragón]

14:50-15:10 Juan Cabanillas (IMDEA Nanoscience, Madrid): *Chemical Sensing Schemes Combining Fluorescence, Colorimetry and Amplified Spontaneous Emission of Conjugated Systems*

15:10-15:25 Vladimir Chirvony (ICMol, Valencia): *Why Organic-Inorganic Metal Halide Perovskites are so Efficient Photovoltaic Materials? The Mechanism Responsible for Extended Lifetime of Photogenerated Charge Carriers*

15:25-15:40 Pedro Braña (Univ. Erlangen): *Dynamical Simulation of Singlet Fission in Covalent Bonded Pentacene Dimers*

15:40-16:00 Reinhold Wannemacher (IMDEA Nanoscience, Madrid): *Photophysics of Carbon Dots: Spectroscopy and Applications*

16:00-16:30 Coffee Break & Poster Session (Seminar Room, 2nd Floor, La Nau)

Session 8 Photoinduced Processes II [Chair: Begoña Milián Medina]

16:30-16:50 M^a Carmen Ruiz Delgado (Univ. Malaga): *Impact of the Intermolecular Interactions on the Electronic and Charge-Transport Properties of Organic Materials: A Joint Experimental and Theoretical Approach*

16:50-17:05 Chen Sun (IMDEA Nanoscience, Madrid): *Amplified Spontaneous Emission in Supramolecular Controlled Self-Encapsulated Polythiophenes*

17:05-17:35 Shinto Varghese (IACS, Kolkata), **invited**: *Exciton Diffusion Studies in Small Molecular Donors for Solar Cells*

17:35 Conclusion: B. Milián Medina, L. Lüer, J. Gierschner

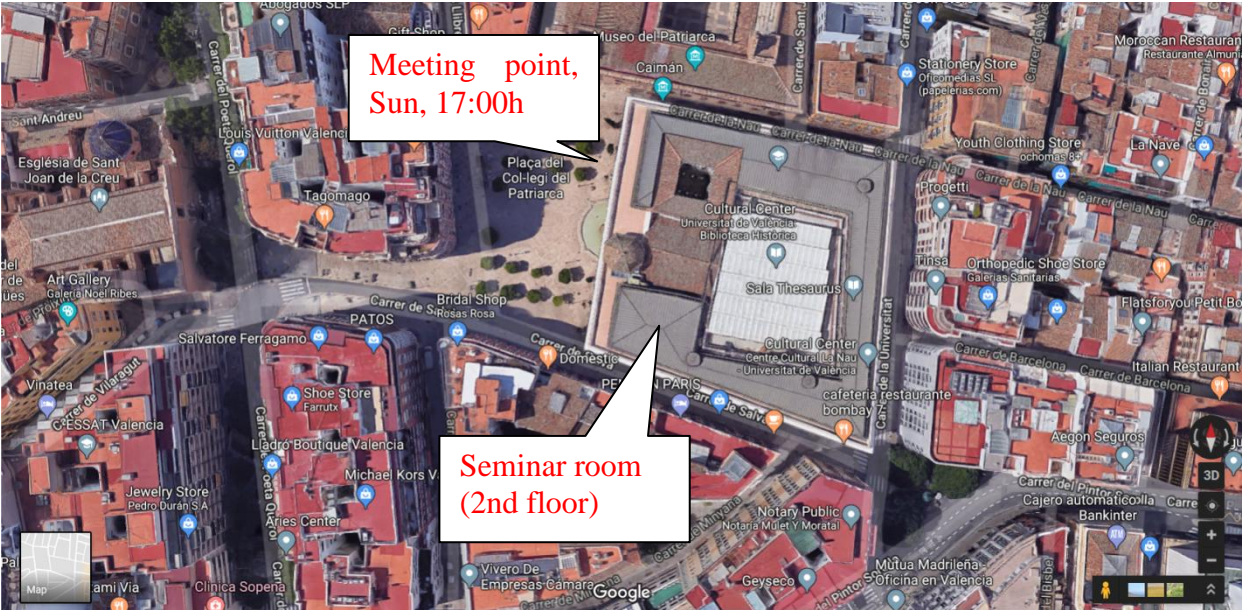
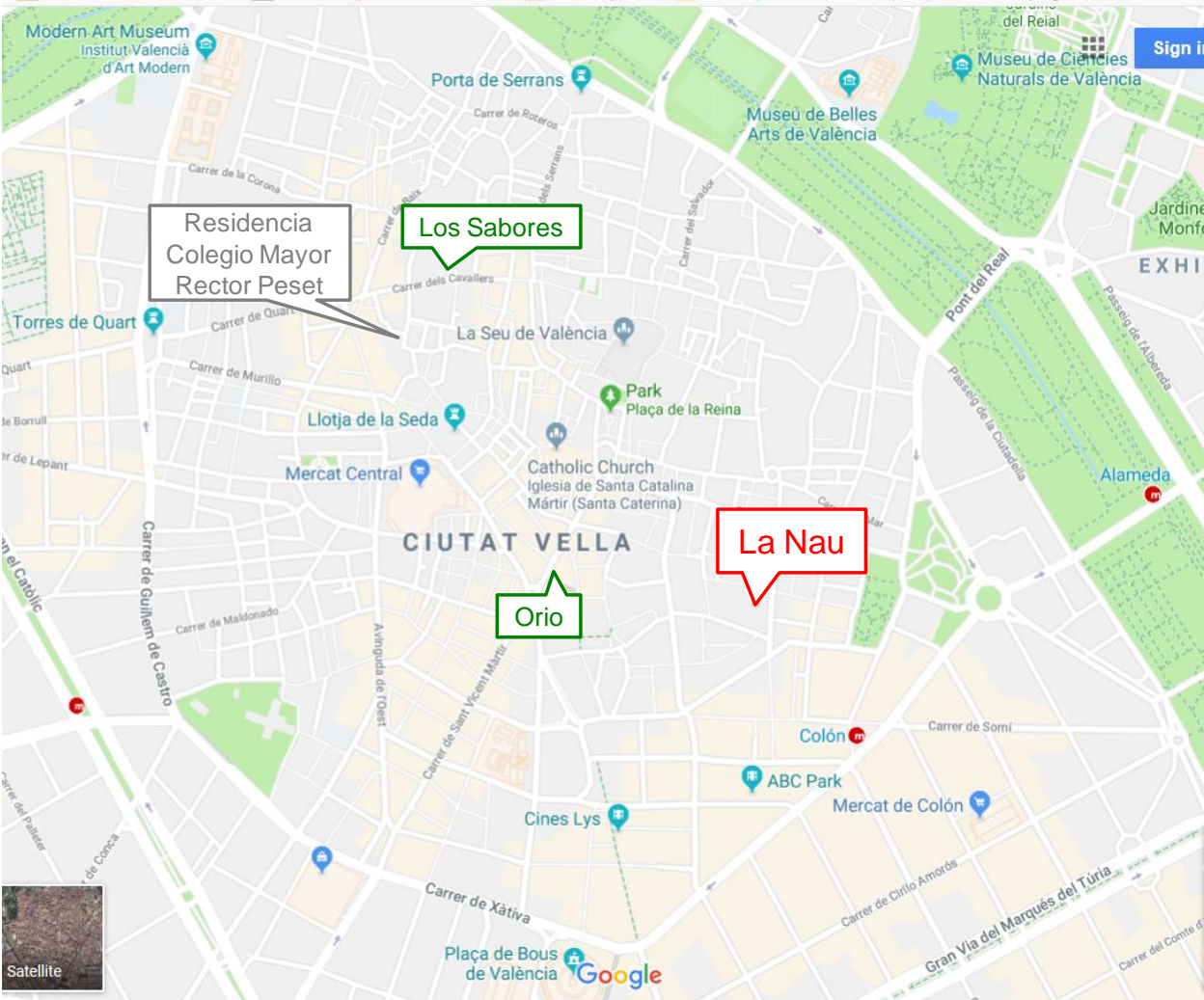
Poster Contributions

- P01 Ana Claudia Santos Camilo (Univ. Malaga): *Modelling Charge Transport of Discotic Liquid-Crystalline Triindoles: the Role of Peripheral Substitution*
- P02 Andres Perez Guardiola (Univ. Alicante): *Why are some Organic Nanorings Synthesized and not Others? Insights from the Fractional Occupation Density Method*
- P03 Begoña Milián Medina (Univ. Valencia): *Exciton and MO Localization in Donor-Acceptor Copolymers*
- P04 Benedikt Schrode (Univ. Graz): *The Substrate-Induced Phase of C8O-BTBT-OC8 Detected by Mid-Infrared and Lattice Phonon Raman Spectroscopy*
- P05 Changhoon Yu & Youngmoo Kim (UNIST Korea): *A molecular design for efficient photoredox catalysis and their application for light-driven atom transfer radical polymerization (ATRP)*
- P06 Jesus Cerda Calatayud (ICMol Valencia): *Theoretical Estimates of the Charge-Separation and -Recombination Rates in Donor-Acceptor Buckybowl-Based Supramolecular Complexes in Solution*
- P07 Joaquín Calbo (Univ. Valencia): *A Dispersion-Corrected Density Functional Theory Investigation on Pyreneimidazole-Based Supramolecular Polymers*
- P08 Johannes Gierschner (IMDEA Nanoscience, Madrid): *Mixed-& Separated Stack Charge-Transfer Co-Crystals: Tunable Bright Emitters with Ambipolar Charge Transport Characteristics*
- P09 Junqing Shi & Larry Lüer (IMDEA Nanoscience, Madrid): *Designing High Performance All Small Molecule Solar Cell with Nonfullerene Acceptor: Comprehensive Studies on Photoexcitation Dynamics and Charge Separation Kinetics*
- P10 Larry Lüer (IMDEA Nanoscience, Madrid): *Lévy Defects in Matrix-Immobilized J Aggregates: Tracing Intra-and Inter-Segmental Exciton Relaxation*
- P11 Maria Izquierdo (ICMol, Valencia): *Charge Transfer States in Bulk Heterojunction Organic Photovoltaics*
- P12 Martín Castillo (Univ. Zaragoza): *Study on the Morphology and Optical Properties of Organic Nanoaggregates*
- P13 Ricardo Ortiz Cano (Univ. Alicante): *Electrical Spin Manipulation in Graphene Nanostructures*
- P14 Sergio Gámez Valenzuela (Univ. Malaga): *Using Novel Push-Pull Chromophores to Prepare Single Waveguide Silicon-Organic Hybrid Modulators*

Conference Venue

La Nau (old University), Calle de la Universitat 2, Valencia

coordinates: 39.471944°, -0.372778°



Public Transport in Valencia

From the airport you reach the old town via Metro (see attached); the closest Metro station to La Nau is "Colon" (200 m)

