

UNIVERSITÀ DELLA CALABRIA



XXV Congresso Nazionale della Società Chimica Italiana

Arcavacata di Rende
07-12 Settembre 2014

PROGRAMMA SCIENTIFICO
PERCORSO ENERCHEM

Percorso **EnerChem** al XXV Congresso della Società Chimica Italiana
Rende 7-12 settembre 2014

Lunedì 8 settembre

Divisione di Chimica Fisica (chairperson: E. Selli, A. Sinicropi)

Aula Caldora

09:10 – 09:40	CHF-K1: Nicola Armaroli <i>From hydrocarbons to solar energy: unfolding trends for chemistry</i>
09:40 – 10:00	CHF-O1: Gian Luca Chiarello , E. Selli <i>Photocatalytic Hydrogen Production</i>
10:00 – 10:20	CHF-O2: Roberto Comparelli , F. Petronella, A. Truppi, E. Binetti, A. Panniello, M. Striccoli, A. Agostiano, M. L. Curri <i>Colloidal nanocrystals for energy conversion applications</i>
10:20 – 10:40	CHF-O3: Jenny G. Vitillo , J. Ethiraj, F. Giordanino, V. Crocellà, G. Ricchiardi, E. Groppo, M. Baricco, F. Bonino, S. Chavan, S. Bordiga <i>Carbon dioxide capture and recycling in microporous materials</i>
10:45 – 11:05	Coffee Break
11:05 – 11:25	CHF-O4: D. Costenaro, Chiara Bisio , G. Gatti, T. B. Meyer, M. Graetzel, L. Marchese <i>Porous and layered solids for the development of innovative quasi-solid electrolytes for dssc applications</i>
11:25 – 11:45	CHF-O5: Simona Binetti , A. Le Donne, P. Garattini, S. Tombolato, R. Mereu, M. Meschia, M. Acciarri <i>Chalcogenide thin film solar cells on flexible substrates</i>
11:45 – 12:05	CHF-O6: Giuseppe Calogero , I. Citro, A. Bartolotta, G. Di Marco, A. Sinopoli, S. Caramori, C.A. Bignozzi, V. Petrov, A. M. Diniz, A. J. Parola, F. Pina <i>A complete study on synthetic analogues of anthocyanins as bio-inspired sensitizers for dye-sensitized solar cells</i>
12:05 – 12:25	CHF-O7: Sante Cospito , A. Beneduci, M. La Deda, G. Chidichimo <i>Gel polimerici elettrofluorocromici</i>

Divisione di Chimica Teorica e Computazionale (chairperson: G. Pacchioni)

Aula CF2 (Cubo 32 C Ponte Carrabile)

15:00 – 15:30	TEO-K2: Fabrizia Negri <i>Interplay of electronic, optical and transport properties in extended core ORGanic semiconductors: rationale from modeling</i>
15:30 – 15:50	TEO-O6: Sandro Jurinovich , L. Viani, S. Caprasecca, B. Mennucci <i>Energy Transfer in Light Harvesting Systems: a QM/MM-Pol Approach</i>
15:50 – 16:10	TEO-O7: Sofia Canola , F. Negri <i>Anisotropy of n-type charge mobility and thermal effects in crystals of a fluoro-alkylated naphthalene diimide: a computational investigation</i>
16:10 – 16:30	TEO-O8: Remedios Cortese , F. Ferrante, D. Duca <i>Hydrogen activation on N-doped carbon networks</i>
16:30 – 16:50	Coffee Break
16:50 – 17:10	TEO-O9: Elisa Albanese , B. Civalieri, M. Baricco <i>Tuning the Stability of Ca(BH₄)₂ by the Inclusion of Additives: A Computational Study</i>
17:10 – 17:30	TEO-O10: Roberto Schimmenti , R. Cortese, D. Duca <i>A computational approach to study Aqueous Phase Reforming</i>
17:30 – 17:50	TEO-O11: Lorenzo Canti , A. Fraccarollo, G. Gatti, M. Errahali, M. Cossi, L. Marchese <i>Monte Carlo Modeling of Carbon Dioxide Adsorption in Porous Aromatic Frameworks</i>

Martedì 9 settembre

Divisione di Elettrochimica (chairperson: V. Baglio, P. Mustarelli)

Aula Chimica (Cubo 17C Ponte Carrabile)

15:00 – 15:20	ELE-O16: Eliana Quartarone , S. Angioni, D. C. Villa, P. Mustarelli, A. Magistris <i>Polybenzimidazole-based membranes for HT-PEMFCs</i>
15:20 – 15:40	ELE-O17: Isabella Nicotera , K. Angjeli, C. Simari, V. Kosma, L. Coppola, V. Baglio <i>Layered nanostructures for composites hybrid membranes in fuel cell application: investigation of water and methanol transport properties</i>
15:40 – 16:00	ELE-O18: Valentina Perazzolo , C. Durante, R. Pilot, Z. Jian, R. Bozio, G. Granozzi, A. Gennaro <i>Nitrogen-doped mesoporous carbons: activity towards oxygen reduction</i>
16:00 – 16:20	ELE-O19: Michael Ongaro , J. Roche, A. Kuhn, P. Ugo <i>Dissymmetric modification of micro- and nanoparticles for energy conversion</i>
16:30 – 16:50	Coffee break
16:50 – 17:10	ELE-O20: Italo Doberdò , A. Maheshwari, M. Santarelli, S. Bodoardo, N. Penazzi <i>Mathematical modeling and simulation of Li-ion battery</i>

Mercoledì 10 settembre

Divisione di Chimica Industriale

University Club

09:00 – 09:40	IND-K4: Roberto Fusco , D. Testa <i>ENI research on next generation photovoltaics</i>
09:40 – 10:00	IND-O20: Federico Bella , R. Bongiovanni <i>Photopolymers for Grätzel's solar cells</i>
10:00 – 10:20	IND-O21: Giuseppe Barbieri , E. Drioli, A. Brunetti <i>Membrane reactors for innovating hydrogen stream upgrade</i>
10:20 – 10:40	IND-O22: Francesco Basile , D. Barbera, P. Benito, G. Fornasari, R. Mafessanti, M. Monti, A. Vaccari <i>New structured catalysts and system for H₂ and syngas production</i>
10:45 – 11:05	Coffee Break
<i>Chairperson</i>	
11:05 – 11:25	IND-O23: Alessandro Donazzi , D. Pagani, A. Lucotti, M. Tommasini, A. Beretta, G. Groppi, C. Castiglioni, P. Forzatti <i>Kinetic and Raman study in the CPO of C₃H₈, C₃H₆ and n-C₈H₁₈</i>
11:25 – 11:45	IND-O24: Gianni Golemme , A. Santaniello <i>Mixed Matrix Membranes for Gas Separation</i>

Giovedì 11 settembre

Divisione di Chimica Inorganica (chairperson: M. Peruzzini)

Aula E1 (Cubo 5 B Ponte Carrabile)

15:00 – 15:30	INO-K10: Francesco Vizza , M. Bellini, M. Bevilacqua, M. Innocenti, A. Lavacchi, A. Marchionni, H. Miller, J. Filippi, L. Wang <i>Energy & Chemicals from Renewable Resources by Electrocatalysis</i>
15:30 – 15:50	INO-O36: Gaetano Granozzi <i>DECORE: a new european project aiming at innovative DEFCs operating at intermediate temperatures</i>
15:50 – 16:10	INO-O37: Carlo Nervi , F. Franco, C. Cometto, L. Nencini, C. Sun, R. Gobetto <i>Exploring ORGanometallic catalysts for photo- and electro-reduction of CO₂</i>
16:10 – 16:30	INO-O38: Elena Rebollo , C. Mortalò, S. Boldrini, S. Barison, M. Fabrizio <i>BaCe_{1-x}Zr_xY_{0.15}O_{3-δ}-Y/Gd-Doped CeO₂ cer-cer composites for H₂ separation</i>
16:30 – 16:50	INO-O39: Nicola Dalle Carbonare , S. Caramori, C. A. Bignozzi <i>Hematite photoanodes modified with a Fe(III) water oxidation catalyst</i>
16:50 – 17:10	INO-O40: I. Corbucci , A. Petronilho, H. Müller-Bunz, L. Rocchigiani, M. Albrecht, Alceo Macchioni <i>Dramatic effect of Me to Oct substitution in the activity of pyridine-carbene iridium water oxidation catalysts</i>

Venerdì 12 settembre

Divisione di Chimica Organica (chairperson: M. Maggini)

Aula Magna “Beniamino Andreatta” del Centro Congressi

11:15 – 11:30	ORG-O54: Norberto Manfredi , B. Cecconi, C. Coluccini, F. Melchiorre, G. Giannotta, P. Biagini, A. Abboto <i>Multibranched organic sensitizers for photovoltaics and solar fuels</i>
11:30 – 11:45	ORG-O55: Tiziana Del Giacco , S. Basili, F. Elisei, R. Germani <i>Acridinium-based sensor as fluorescent photoinduced electron transfer probe for proton detection modulated by anionic micelles</i>
11:45 – 12:00	ORG-O56: Davide Bonifazi <i>Engineering organic materials through serendipity</i>