



Programma

Lunedì 13/08/2010

- 14.00 - 16.00 Registrazione
- 16.00 - 16.15 Apertura
Aula Magna Edificio H3
- 16.15 - 17.00 PL1 **Luisa de Cola**, Cristian Strassert, Noviyam Darmawan, Matteo Mauro
Luminescent metal complexes and their soft crystalline assemblies
Chair: R. Gobetto
- 17.00 - 17.30 KL1 **Angelo Maria Taglietti**, Giacomo Dacarro, Yuri Diaz Fernandez, Matteo
Galli, Pietro Grisoli, Piersandro Pallavicini, Maddalena Patrini, Robertino
Zanoni
Functionalization of glass surfaces for antibacterial purposes
Chair: R. Gobetto
- 17.30 - 18.00 KL2 **Cristiano Zuccaccia**
Structure-reactivity relationship for early-transition-metal olefin
polymerization catalysts
Chair: R. Gobetto
- 19.30 Cocktail di benvenuto
Harry's Grill, Grande Hotel Duchi D'Aosta, Piazza dell'Unità d'Italia

Martedì 14/09/2010

09.00 - 09.45 PL2 **Andrew Weller** Chair: A. Albinati
Unravelling the mechanism of transition metal catalyzed amine-borane dehydrocoupling using rhodium phosphine fragments

Chair: A. Albinati

09.45 - 10.05 OC1 M. Cristina Cassani, Barbara Ballarin, Magda Blosi, Luigi Busetto, Stefania Albonetti
Amino functionalized imidazolium salts: dual role players in gold chemistry

Chair: G. Pelizzi

OC4 Elisabetta Gabano, Paola Gramatica, Ester Papa, Mara Luini, Elena Monti, Marzia B. Gariboldi, Mauro Ravera, Luca Gaviglio, Domenico Osella
Antitumor platinum(IV) pro-drugs: synthesis, characterization, cytotoxicity and QSAR analysis

10.05 - 10.25 OC2 Massimiliano Cavallini, Felice C. Simeone, Dennis Gentili, Francesco Borgatti, Cristiano Albonetti, Vittorio Morandi, Claudio Sangregorio, Claudia Innocenti, Francesco Pineider, Emilia Annese, Giancarlo Panaccione, Luca Pasquali
Additive nanoscale embedding of functional nanoparticles in silicon oxide

OC5 C. Nardon, D. Fregona
New lanthanide-based biosensors for the early detection of cancer antigens

10.25 - 10.45 OC3 Cinzia Biaggi, Alessio Orbelli Biroli, Maddalena Pizzotti, Francesca Tessore, Renato Ugo, F. De Angelis, Giacomo Giorgi, Carlo Alberto Bignozzi and Stefano Caramori
Zn(II) porphyrinic photosensitizers for DSSC

OC6 Michele Benedetti, Chiara Carrisi, Daniela Antonucci, Danilo Migoni, Cosimo Ducani, Bernardo Pozzessere, Loredana Capobianco, Francesco P. Fanizzi
[Pt(dien)(N7-G)] and deoxynucleotide carrier: mitochondrial role in toxicity of platinum anticancer drugs

10.45 - 11.15 Coffee Break

11.15 - 11.45 KL **Federica Garau** (Premio Dottorato) Chair: V. Zanotti
Design, synthesis and characterisation of polyfunctional coordination polymers

Chair: V. Zanotti

11.45 - 12.05 OC11 Paolo Stufano, Michele Aresta, Angela Dibenedetto, Antonella Angelini, Brunella M. Aresta, Sabino Maggi, Imre Pápai, and Tibor A. Rokob
Structural characterization of NbCl₅·(N,N'-dicyclohexylurea) and dehydration of the co-ordinated urea to afford the relevant carbodiimide

Chair: A. Saccone

OC7 Marta Maria Natile, Laura Bovo, Lidia Armelao, Antonella Glisenti, Eugenio Tondello, Lorenzo Sorace, Dante Gatteschi, Michael W. Murphy, Tsun-Kong Sham
Seeking the origin of reactivity in ZnO based materials

12.05 - 12.25	OC12 <u>Piero Zanello</u> , Maddalena Corsini, Serena Fedi, Alexander R. Kudinov, Dmitry V. Muratov, Alexander S. Romanov Cationic μ -Diborolyl triple-decker complexes: synthesis, structure, and electrochemistry	OC8 <u>Ingrid Corazzari</u> , Stefano Livraghi, Silvia Ferrero, Maria Cristina Paganini, Elio Giamello, Bice Fubini, Ivana Fenoglio A new strategy for the production of safe TiO ₂ nanopowders having low oxidative potential to be used as UV filters
12.25 - 12.45	OC13 <u>Guido, E.</u> ; Plutino, M. R.; Albinati, A.; Monsù Scolaro, L.; Romeo, R. Restricted phosphorus-carbon bond rotation in dinitrogen platinum(II) derivatives bearing overcrowded phosphane	OC9 <u>Davide Barreca</u> , Paolo Fornasiero, Alberto Gasparotto, Valentina Gombac, Chiara Maccato, Eugenio Tondello Vapor-phase synthesis of cobalt oxide nanopramids for photo-assisted H ₂ production
12.45 - 13.05	OC14 Marco Baron, <u>Cristina Tubaro</u> , Marino Basato, Andrea Biffis, <u>Claudia Graiff</u> Gold(III) complexes with n-heterocyclic dicarbene ligands: synthesis and catalytic applications	OC10 <u>A. Angelini</u> , M. Aresta, A. Dibenedetto, C. Pastore, J. Ethiraj, Stufano, B. M. Aresta, I. Pàpai Elucidation of the reaction mechanism of the direct carboxylation of methanol to dimethylcarbonate using Ce/Al mixed oxide as catalyst
13.05 - 14.30	Pausa pranzo	

14.30 - 16.00	Sessione Poster -1-	Numeri dispari
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	Chair: E. Farnetti	Chair: R. Dreos
16.00 - 16.20	OC17 Luigi Busetto, Fabio Marchetti, Rita Mazzoni, <u>Mauro Salmi</u> , Stefano Zacchini, Valerio Zanotti Metal assisted assembling of small unsaturated molecules: formation of functionalized ferrocenes	OC15 <u>Leonardo Belpassi</u> , Nicola Salvi, Francesco Tarantelli On the Dewar-Chatt-Duncanson model for catalytic gold(I) complexes
16.20 - 16.40	OC18 <u>Michele Bianchi</u> , Dani Limones, Francesco Valle, Massimiliano Cavallini, Fabio Biscarini Lithographically controlled etching for SiO _x surfaces nanopatterning	OC16 <u>Devis Di Tommaso</u> , Emilia Tang, Nora de Leeuw Ab initio simulations of bioactive phosphate glasses and their dissolution products

	Aula Magna di Androna Baciocchi, 4 Via Lazzaretto Vecchio, Trieste	
17.30 - 18.30	Vincenzo Balzani La chimica incontra la città: "Energia per un mondo sostenibile"	Chair: M. Peruzzini
19.00	Assemblea della Divisione di Chimica Inorganica della SCI	

Mercoledì 15/09/2010

09.00 - 09.45 PL premio Nasini **Stefano Zacchini** Chair: R. Zanoni
Developing a molecular approach towards metal nanoparticles using metal carbonyl clusters

Chair: R. Zanoni

09.45 - 10.05 OC19 L. Armelao, G. Bottaro, S. Quici, C. Scalera, M. Cavazzini, G. Accorsi, F. Barigelletti, E. Tondello
Tunable colour emission of silica thin films doped with lanthanide antenna complexes

10.05 - 10.25 OC20 Matteo Amelia, Tommaso Avellini, Aurélie Lavie-Cambot, Simone Monaco, Serena Silvi, Nathan D. McClenaghan, and Alberto Credi
Towards functional photochemical nanodevices based on chemically functionalized semiconductor quantum dots

10.25 - 10.45 OC21 Flavia Artizzu, P. Deplano, M. L. Mercuri, L. Pilia, A. Serpe, E. Sessini, F. Quochi
Near-Infrared emitters based on lanthanide complexes

10.45 - 11.15 Coffee Break

11.15 - 11.45 KL3 **Fabio Arnesano** Chair: S. Geremia
Coordination of platinum antitumor compounds to transport proteins

Chair: S. Geremia

11.45 - 12.05 OC25 Gianantonio Battistuzzi, Marzia Bellei, Paul G. Furtmüller, Marco Sola, Christian Obinger
Redox thermodynamics of the Fe³⁺/Fe²⁺ couple in wild-type and mutated heme peroxidases

12.05 - 12.25 OC26 D. Rogolino, A. Bacchi, M. Carcelli, C. Compari, E. Fiscaro, N. Ne'amati, N. Pala, G. Pelizzi, G. Rispoli, M. Sechi, V. Sinisi
Hiv-1 integrase chelating inhibitors: a contribution of coordination chemistry

Chair: M. Graziani

OC22 S. Aime, E. Cerutti, S. Ellena, R. Gobetto, F. Reineri, D. Santelia, A. Viale
Catalytic Parahydrogenation of Alkynyl Substrates as Hyperpolarized ¹³C-MRI Contrast Agents

OC23 Eliano Diana, G. Cordiano, M. Corno, Sidney F.A. Kettle, P.L.S. Stanghellini
Nanostructured prussian blue analogues: electronic properties and vibrational behaviour

OC24 Cecilia Coletti, Nazzareno Re, Luca Gonsalvi, Antonella Guerriero, Maurizio Peruzzini, Gianna Reginato, Lorenza Martelli
Rhenium allenylidenes and their reactivity towards phosphines: a theoretical study

Chair: C. Pettinari

OC29 Vincenzo Benessere, Matteo Lega, Francesco Ruffo
Refining the use of naphthos ligands in asymmetric catalysis

OC30 Maria Michela Dell'Anna, Piero Mastroilli, Daniela Giardina Papa, Ulli Englert and Maurizio Peruzzini
Synthesis and characterization of Pd polynuclear complexes containing a primary phosphane and their use as pre-catalyst in the polymerization of norbornene

12.25 - 12.45 OC27 Maria Francesca Casula, Anna Corrias, Claudia Innocenti, Claudio Sangregorio, Paolo Arosio, Alessandro Lascialfari
Design of magnetic ferrofluids for biomedical applications

OC31 Giovanni Bottari, Angelo Meduri, Dario Drommi, Giovanna Brancatelli, Felice Faraone
Application of novel dinitrogen ligands based on camphor and BINOL backbones in allylic substitution reactions

12.45 - 13.05 OC28 Eugenio Garribba, Daniele Sanna, Giovanni Micera
Transport of insulin-enhancing vanadium compounds

OC32 L. Maiore, M. A. Cinellu, S. Stoccoro, A. Zucca, F. Cocco, L. Messori, C. Gabbiani
Catalytic and biological studies of Au(III) complexes with pyridinyl-oxazoline ligands

13.05 - 14.30 Pausa pranzo

14.30 - 16.00

Sessione Poster -2-

Numeri pari

Chair: E. Alessio

16.00 - 16.20 OC33 L. Salassa, P. J. Sadler
Photoactivation of platinum and ruthenium anticancer complexes

Chair: C. Mealli

Sessione gruppo interdivisionale di Chimica strutturale

OC35 Norberto Masciocchi, Simona Galli, Angelo Maspero, Antonietta Guagliardi, and Antonio Cervellino
Defective coordination polymers

16.20 - 16.40 OC34 Maria Pia Donzello, Daniela Vittori, Elisa Viola, Claudio Ercolani
Prospectives of bimodal photo/chemotherapeutic anticancer activity of a hydrosoluble heterobimetallic porphyrine macrocycle

OC36 Silvia Rizzato, Alberto Albinati, Anna Laura Bandini, Carlo Castellano, Mary Grellier, Marie- H el ene Lem e-Cailleau, Sax A. Mason
Neutrons in chemistry: contributions of single crystal neutron diffraction to coordination chemistry

16.45 - 17.30 PL3 **Bernhard Lippert**
Zangrando
Versatile molecular architectures generated from nucleobases and metal ions

Chair: E.

18.30 Partenza pullman
cena sociale a Pirano (Slovenia)

Giovedì 16/09/2010

09.00 - 09.45 PL4 **Graham Hutchings** Chair: P.Fornasiero
Catalysis with gold and gold-palladium nanoparticles

Chair: P.Fornasiero

09.45 - 10.05 OC37 C. Battocchio, L. Fontana, I. Venditti, I. Fratoddi, M.V. Russo, A. Bearzotti, E. Piscopiello, L. Tapfer, G. Polzonetti
Synthesis and advanced characterizations of gold nanoparticles stabilized with platinum(II) thiols for applications as chemical sensors

Chair: L.Randaccio

OC40 Alfredo Burini, John P. Fackler, Jr., Rossana Galassi, Alceo Macchioni, Simone Ricci, Luca Rocchigiani, Maura Pellei, Carlo Santini
Absorption of volatile molecules by a cyclic trinuclear silver(I) complex: solid state and solution investigations

10.05 - 10.25 OC38 Antonio Buonerba, Cinzia Cuomo, Sheila Ortega Sánchez, Patrizia Canton, Alfonso Grassi
Controlled synthesis of gold nanoparticles incarcerated in syndiotactic polystyrene matrix

OC41 Alice Boccia, Valeria Di Castro, Valeria Lanzilotto, Robertino Zononi, Arturo Arduini, Luca Pescatori, Andrea Pochini, Andrea Secchi
Calix[4]arene receptors and rotaxanes on Si(100) and Cu surfaces: synthesis and characterization

10.25 - 10.45 OC39 P. Dolcet, N. A. Heutz, K. Merz, M. Casarin, C. Maccato, E. Tondello, S. Gross
Miniemulsion as nanoreactor: Au-TiO₂ nanocomposites by photolysis of single source precursor

OC42 Irene Bassanetti, Luciano Marchiò, Marcello Gennari
Anion influence in silver supramolecular reticulates

10.45 - 11.15 Coffee Break

11.15 - 11.45 KL4 **Roberta Cipullo**, Vincenzo Busico, Giovanni Talarico Chair: B. Milani
Design of new olefin polymerization catalysts: opportunities and limitations

Chair: B. Milani

11.45 - 12.05 OC48 E. Gallo, S. Fantauzzi, A. Caselli, F. Ragaini, N. Casati, P. Macchi, S. Cenini
Amination of C-H bonds catalysed by ruthenium porphyrin complexes

Chair: J. Kašpar

OC43 F.Fantini, E.Ferrari, G.Lusvardi, G.Malavasi, L.Menabue
Synthesis and characterization of Ga-containing silicate based sol-gel and mesoporous sol-gel bioactive glasses loaded with curcumin

12.05 - 12.25 OC49 Andrea Rossin, Natalia V. Belkova, Roberto Gobetto, Michele R. Chierotti, Luca Gonsalvi, Vladislava Levina, Agustí Lledós, Maurizio Peruzzini, Elena S. Shubina, Fabrizio Zanobini
Dihydrogen bonding and H₂ formation from a "basic" and an "acidic" metal hydride: a combined experimental and computational insight

OC44 A. Agostino, S. Cagliero, M. M. Rahman Khan, C. Plapcianu, M. Truccato
Study of superconducting doped YBCO whiskers for TeraHertz applications

- 12.25 - 12.45 OC50 Mina Mazzeo, Ilaria D'Auria, Marina Lamberti, Daniela Pappalardo, Stefano Milione, and Claudio Pellecchia
New Group 3 metal complexes as efficient initiators for ring opening polymerization of cyclic esters
- 12.45 - 13.05 OC51 G. Giambastiani, L. Luconi, A. Rossin, C. Bianchini and A. Lledos
Intramolecular σ -bond metathesis / protonolysis on Zr^{IV} and Hf^{IV} pyridyl-amido olefin polymerization catalysts; beware of metal precursors!
- 13.05 -13.25 OC52 Walter Baratta, Gianluca Bossi, Elisabetta Putignano, Pierluigi Rigo
Alcohol dehydrogenation promoted by ruthenium and osmium complexes
- 13.25 Chiusura Convegno
- OC45 Marco Taddei, Riccardo Vivani, Ferdinando Costantino
New coordination polymers based on Cu phosphonates with carboxylic and nitrogen ancillary ligands
- OC46 M. Nocchetti, T. Posati, F. Bellezza, A. Cipiciani, F. Costantino, L. Tarpani, L. Latterini, U. Costantino
Preparation and characterization of lanthanide(III)-hydrotalcite nanocrystals
- OC47 M. L. Mercuri, F. Artizzu, P. Deplano, A. Serpe, E. Sessini a and L. Pilia
Novel molecular metals based on $M(\text{croconate})_3]3^-$ ($M=\text{Fe, Ga}$) chiral anions