

Thursday, 6.9.2012, Morning

Plenary Session

9:00-9:15

Welcome and Opening

9:15-10:00

A. Bacceiredo,

University of Toulouse, France

Stable silylene-phosphine complexes

10:00-10:30

Coffee break

10:30-11:15

M. Unno,

Gunma university, Japan

"New development of silicon-containing dyes"

11:15-12:00

L. Saint-Jalmes,

Bluestar Silicones, France

New challenges of the catalysis in the silicones chemistry

12:00-14:00

Lunch break (lunch + Poster session)

Thursday, 6.9.2012, Afternoon

Session A

Topic Silicon Chemistry

14:00-14:30 **Invited talk**

T. Müller, A. Schäfer, M. Reißmann, A. Schäfer

University of Oldenburg, Germany

Silyl Cations in Bond Activation Processes

14:30-14:50

C. Marschner, H. Arp, J. Hlina, J. Baumgartner, P. Zark, T. Müller

Technische Universität Graz, Austria

The Coordination Behavior of Disilylated Tetrylenes toward Transition Metals

14:50-15.10

Y. Apeloig, D. Bravo-Zhivotovskii, R. Dobrovetsky, L. Zborovsky, G. Molev, V. Molev, D.

Pinchuk, M. Botoshansky,

Technion- Israel Institute of Technology, Israel

Novel metallosilane reagents and their reactions

15:10-15:30

K. Junold, J. A. Baus, C. Burschka, R. Tacke

University of Würzburg, Germany

Bis[N,N'-diisopropylbenzamidinato(-)]silicon(II): A Novel Donor-Stabilized Silicon(II) Species

15:30-15:50

H. Stueger, C. Walkner, M. Patz, S. Wieber

Graz University of Technology, Austria

Neopentasilane, a Valuable Precursor for Functional Silicon Hydrides

15:50 -16:30 Coffee break

16:30-16:50

D. Scheschkewitz, J. Jeck, Kai A., A. Meltzer, M. J. Cowley,

University of Saarland

Functional group interconversion in the presence of Si=Si bonds

16:50 -17:10

S. Inoue, K. Leszczyńska

University of Berlin, Germany

Synthesis, Structure and Reactivity of an Imino-substituted Silicon(II) Compound

17:10-17:30

M. J. Cowley, D. Scheschkewitz, P. Jutzi, K. Leszczyńska

University of Saarlandes

Reversible base coordination at a Si=Si double bond

17:30-17:50

S. G. Koller, C. Strohmann

University of Dortmund

Nucleophilic Substitution of Benzyl Groups in Tetraorganosilanes with Alkylolithium Compounds

Session B

Topic Materials, Polymers

14:00-14:30 **Invited talk**

M. A. Brook, Y. Wang, Y. Chen, J. Grande, F. Gonzaga, N. Li, M. Whinton, N. Luong, M.

Khan, J. Zhang, T. Rambarran *McMaster University, Canada*

Structuring Silicone Interfaces

14:30-14:50

R. Pietschnig, N. Hurkes, S. Spirk, O. Chudnovska

University of Kassel, Germany

Stable Silanetriols – Building Blocks for Surfactants, Micelles and Cages

14:50-15:10

P. Chaffanjon, Y. Berezhansky, G. Kiss

Momentive Performance Materials, Germany

Silicone Based Surfactants: A Versatile Family Of Additives For Polyurethane Foams

15:10-15:30

V. Bounor-Legaré, J. Bonnet, P. Cassagnau, F. Boisson, F. Melis P. Alcouffe

University of Lyon, France

Efficient carbonyl hydrosilylation reaction in polymer processing conditions: Toward EVA/PDMS crosslinking and compatibilization

15:30-16:00 **Invited talk (3275)**

M. Mauzac *IMRCP CNRS, University of Toulouse, France*

Functionalisation of polysiloxanes by liquid crystalline groups or saccharide moieties

16:00 -16:30 Coffee break

Topic Nanocomposite, Hybrids, Sol/Gel

16:30-17:00 **Invited talk (3312)**

J.Y. Sanchez

University Pierre et Marie Curie, France

Soft chemistry based routes to nanostructured hybrid materials

17:00 -17:20 **(3167)**

U. Schubert, M. Lomoschitz, J. Geserick, S. Meyer *Institute of Materials Chemistry, Vienna*

University of Technology, Austria

Organically Modified Mixed-Oxide Sol-Gel Films with Complex Compositions and Pore

17:20-17:30 **(3315)**

N. Hüsing, M. Waitzinger, S. Geist

University of Salzburg, Austria

Synthesis of hierarchically organized porous silicon

17:30-17:50 **(3305)**

L. Rutz, O. Deutschmann

Karlsruhe Institute of Technology, Germany

Growth Kinetics and Structure Formation of Polysilsesquioxane

Conference Dinner

18:30 to 23.00: The dinner of the 6th European Silicon Days conference will be held in **DOCKS** 40, quai Rambaud at LYON. The required dress for the Congress Dinner is casual.

FRIDAY, 7.9.2012, morning

Plenary Session

9:00-9:45 **Wacker Award Address**

M. Driess, *Technische Universitat, Berlin, Germany*

From silylenes to a new generation of steering ligands in catalysis

Session A

Topic Sustainable approach

9:50-10:20 **Invited talk**

K. Plotzke,

Dow Corning Corporation, USA

Understanding the Health and Environmental Fate of Siloxanes

10:20-10:40

B. Laubie, A. Ohannessian, E. Bonnafous, V. Desjardin, E. Fleury P. Germain

INSA Lyon, France

Volatile organic silicon compounds in biogas: a silicone degradation origin

10:40-11:00 Coffee break

11:00 -11:20

A. Taylor, G. Durand *TWI Ltd, UK*

CuViTo – The development of novel nanostructured anti-microbial coatings

11:20 -11:40

A.M. Muzafarov, I.B. Meshkov, A.V. Bystrova *Institute of Synthetic Polymeric Materials of the Russian Academy of Sciences, Moscow, Russia*

Silicones in 21st century – new ideas and development prospects

11:40 -12:00

P. D. Lickiss, M. A. Ab Rani, J. Hallett T. Welton *Imperial College London, UK*

The Synthesis, Characterization and Properties of Ionic Liquids with Siloxane-Containing Cations

12:00-14:00 **Lunch break** (lunch + Poster session)

Session B

Topic Catalyst

9:50-10:20

B. Marciniac, A. Kownacka, I. Kownacki, M. Kubicki, R. Taylor

University of Poznan, Poland

New Class of Iron (0) Complexes - Synthesis, Structure and Catalytic Activity in Hydrosilylation vs Dehydrogenative Silylation of Carbon-Carbon Multiple Bonds

10:20-10:40

H. Maciejewski, K. Szubert

University of Poznan, Poland

Hydrosilylation processes catalyzed by tm complexes immobilised in ionic liquids

10:40-11:00 Coffee break

11:00-11:20

M. S. Dronova, A. N. Bilyachenko, D. A. Chusov, A. I. Yalymov, A. D. Kirilin, M. M. Levitsky
Lomonosov Moscow University, Russia

Bimetallic cage-like siloxanes: template synthesis and catalytic properties

11:20 -11:40

M. Wong Chi Man, A. Monge-Marcet, X. Cattoën, R. Pleixats

University of Montpellier, France

Sol-gel hybrid organosilicates for catalysis

11:40 -12:00

N. Fukaya, S Onozawa, M. Ueda, T. Sakakura, H. Yasuda

National Institute of Advanced Industrial Science and Technology, Japan

Palladium Complex Catalysts Immobilized on Silica via Tripodal Linker Units: Preparation, Characterization, and Application to the Suzuki-Miyaura Coupling

12:00-14:00 **Lunch break** (lunch + Poster session)

FRIDAY, 7.9.2012, Afternoon

Session A

Topic Silicon Chemistry

14:00-14:20

S. Müller, A. Džambaski, P. Koch, S. Moder, K. Hassler, M. Flock

University of Graz, Austria

Synthesis of a stable cyclic silylene: going downfield

14:20-14:40

D. Tilley

University of California, USA

New strategies for metal-catalyzed hydrosilylations: Structures, reaction steps, and catalytic cycles

14:40-15:00

Y. El Aziz, A. R. Bassindale, P. G. Taylor

The Open University, UK

Novel functionalized silsesquioxane nanobuilding blocks containing an encapsulated fluoride anion: Facile synthesis and properties

15:00-15:20

T. Troadec, R. Rodríguez, T. Kato, N. Saffon-Merceron, J. M. Sotiropoulos, A. Baceiredo

University of Toulouse, France

Isolable alpha-iminophosphorus ylide-stabilized silacycloprop-1-ylidene

15:20-15:40

R. West, F Weinhold

University of Wisconsin-Madison, USA

The Nature of the Silicon-Oxygen Bond

15:40 -16:10 Coffee break

Topic Materials, Polymers

16:10-16:40 **Invited talk**

M. Grunwald, T. Sixt, J. Lambrecht, T. Gottschalk-Gaudig

Wacker Chemie A, Germany

Sustainability in Power Transmission and Distribution - New generation waterbased silicone coatings for high voltage insulators

16h40 -17h00

D. Blanc

Bluestar Silicones, France

Innovative low density Silicone RT-Foams

17:00-17:20

D. Wrobel

Momentive Performance Materials GmbH, Germany

Crosslinked Siloxanes in Optical Applications: The Future of Lighting

17:20-17:40

J-P Lecomte, V.Spaeth

Dow Corning, Belgium

Silane and siloxane based hydrophobic powder. Accelerated ageing of hydrophobic performance in cement-based mortar.

Session B

Topic Materials, Polymers

14:00-14:30 **Invited talk**

G-G. Lindner, M. Kempf, M. Scholz, R. Wu

Evonik Industries AG, Germany

New, tailor-made precipitated silica grades for high performance silicone rubber

14:30-15:00 **Invited talk**

K. M. Lewis

Momentive

Improvements in the Hydrosilylation Synthesis of some Siloxane-Polyether Copolymers and Organofunctional Silanes

15:00-15:20

C. Scott, Q. Best, M. Bisen, N. Sattenapally, L. Wang, M. McCarroll

Southern Illinois University Carbondale, USA

Development of Silicon Containing Fluorescent Biosensors

15:20-15:40

F. Bahrt, A. E. Daugaard, S. Hvilsted, A. Ladegaard Skov

University of Denmark

Development of new PDMS based materials for dielectric electroactive polymers (DEAPs) as actuators and generators

15:40-16:00

A. Zhiltsov, O. Gorbatshevich, V. Kazakova, O. Serenko, A. Muzafarov *Institute of Synthetic Polymer Materials, Russian Academy of Science*

Synthesis of hybrid "core-shell" systems based on molecular silicasols

16:00 -16:20 Coffee break

Topic Silicon Chemistry

16:20-16:40

B. Hoge, S. Steinhauer, N. Ignatiev

University of Bielefeld,

Tris(pentafluoroethyl)silanes

16:40-17:00

V. Jouikov, M. Syroeshkin, Y. Wang, V. Gul'tyai

Zelinskii Institut of Organic Chemistry, Moscow, Russia

Fluoride-encapsulating octaorganosilsesquioxanes as a new class of non-nucleophilic and non-coordinating supporting electrolytes for electrochemistry

17:00-17:20

J. Y. Becker, A. Shtelman

Ben-Gurion University, Israel

A novel electrochemical synthesis of disilylethanes from α -silylacetic acids

17:20-17:40

J. O. Bauer, C. Strohmann

Technische Universität Dortmund, Germany

Silicon-Stereogenic Aminomethoxysilanes: Molecular Precursors with Diverse Reactivities and Applications

Plenary

17:45-18:00

Closing remarks and announcement of the 7th European Silicon Days