

## PLENARY LECTURES

### PL-1

Dinh Cao Huan Do, Andrey V. Protchenko, Lu Ying, and **Simon Aldridge\***  
*Inorganic Chemistry Laboratory, South Parks Road, Oxford, OX1 3QR, UK*  
**Synthetic, structural and reaction chemistry of novel silylene compounds**

### PL-2

Minjia Hu, Tate C. Hauger, Brian C. Olsen, Erik J. Luber, and **Jillian M. Buriak\***  
*Department of Chemistry University of Alberta and NRC-Nano, Edmonton, Alberta, T6G 2G2, Canada*  
**Connecting the Chemistry of Silanes and Silicon Surfaces with Radical-based Mechanisms**

### PL-3

**Herbert W. Roesky\***  
*Institute of Inorganic Chemistry, University of Göttingen, Tammannstrasse 4, Germany*  
**Connecting the Chemistry of Silanes and Silicon Surfaces with Radical-based Mechanisms**

### PL-4

**Tsuyoshi Kato**  
*Université de Toulouse, UPS, LHFA, 118 route de Narbonne, F-31062 Toulouse, France, and CNRS, LHFA UMR 5069, F-31062 Toulouse, France*  
**Challenge: Mimicking transition metals using Si**

### SIL

**Robert West\***  
*Silatronix Inc., 3578 Anderson St., 53704, Madison WI, USA*  
**Fifty years of adventure in silicon chemistry**

## INVITED LECTURES

### IL-1

**Akira Sekiguchi\***  
*Department of Chemistry, Graduate School of Pure and Applied Sciences, University of Tsukuba, Tsukuba, Ibaraki 305-8571, Japan*  
**Stable silyl radicals: From phantom species to isolable compounds and their application**

### IL-2

**Andreas Köllnberger\*<sup>1</sup>**  
*WACKER Chemie AG, Hanns-Seidel-Platz 4, 81737 München, Germany*  
**Dielectric Electroactive Polymers powered by ELASTOSIL<sup>®</sup> Film**

### IL-3

**Florine Cavelier**  
*Institut des Biomolécules Max Mousseron, IBMM, UMR-5247, CNRS, Université Montpellier, ENSCM, Place Eugène Bataillon, 34095 Montpellier cedex 5, France*  
**Silicon-containing amino acids and applications in bioactive peptides: an overview**

#### IL-4

**Kim M. Baines**

*Department of Chemistry, University of Western Ontario, London, Ontario, Canada N6A 5B7*

**Celebrating the Chemistry of Bob:**

**The Spectacular Chemistry of Disilenes**

#### IL-5

**Ralf Riedel\***, Magdalena Graczyk-Zajac, Dragoljub Vrankovic

*TU Darmstadt, Materials Science, Otto-Berndt-Str. 3, 64287 Darmstadt, Germany*

**Can we Use Silicon as Stable and High Capacity Anode Material in Lithium Ion Batteries?**

**Yes we can!**

#### IL-6

**Asunción Barbero\***, Alberto Diez-Varga, Carlos Díez-Poza, Gila M. Kopper and Alberto Cherubin

*University of Valladolid, Department of Organic Chemistry, Faculty of Science, 47011 Valladolid, Spain, E-Mail: asuncion.barbero@uva.es*

**Organosilicon compounds as valuable tools for the synthesis of heterocycles**

#### IL-7

**John Huggins\***<sup>1</sup>, Jennifer Danz<sup>2</sup>, Felix Neumeyer<sup>1</sup>

<sup>1</sup> *Momentive Performance Materials GmbH, Process Technology, Building R-20, Chempark Leverkusen, 51368 Leverkusen Germany E-Mail: john.huggins@momentive.com*

<sup>2</sup> *Technische Hochschule Köln, Fakultät für Angewandte Naturwissenschaften, Campus Leverkusen, Building E39, Chempark Leverkusen, 51368 Leverkusen, Germany*

**Advances in the Industrially-Relevant Hydrosilylation of Siloxanes**

#### IL-8

**Gerhard Sextl\***, Sabine Amberg-Schwab

*Fraunhofer Institute for Silicate Research, ISC, 97082 Würzburg, Germany*

**Biodegradable Si-compounds – an essential ingredient for future food packagings to reduce plastic waste**

#### IL-9

**Gleb B. Sukhorukov\***<sup>1</sup>, Hui Gao<sup>1</sup> and Alexander S. Timin<sup>2</sup>

<sup>1</sup> *School of Engineering and Materials Science, Queen Mary University of London, Mile End Road, London, E1 4NS, United Kingdom, E-Mail: g.sukhorukov@qmul.ac.uk*

<sup>2</sup> *Tomsk Polytechnic University, RASA centre, pros. Lenina, 30, Tomsk, Russia*

**Silica coating on polymer drug delivery systems to improve their properties: stability, permeability and responsiveness**

#### IL-10

Natalia Tiessen, Nico Schwarze, **Berthold Hoge\***

*Bielefeld University, Center for Molecular Materials, 33615 Bielefeld, Germany*

**Silicon-containing amino acids and applications in bioactive peptides: an overview**

#### IL-11

**Delphine Blanc\***, M. Bousquié, C. Maliverney, P. Theil, F. Magd, D. Djian  
*Elkem Silicones, 1-55 avenue des Frères Perret, 69192 Saint-Fons, France*  
**Enhance adhesion : New polymer structures and coating applications**

#### IL-12

**Carole Perry**  
*Interdisciplinary Biomedical Research Centre, Nottingham Trent University, Clifton Lane,  
Nottingham NG11 8NS*  
**Chemistry at the silica interface: from fundamentals to applications**

#### IL-13

**Matthias Driess\***, Yuwen Wang, Arseni Kostenko, Terrance Hedlington, Zhenbo Mo,  
Shenglai Yao  
*Technische Universität Berlin, Department of Chemistry:  
Metalorganics and Inorganic Materials, Germany*  
**The Rise of Silylenes for Cooperative Chemical Transformations**

#### IL-14

Daniel Wendel<sup>1</sup>, Daniel Henschel<sup>1</sup>, Shigeyoshi Inoue<sup>1§</sup>, and **Bernhard Rieger\*<sup>1</sup>**  
<sup>1</sup> *WACKER-Chair of Macromolecular Chemistry, <sup>§</sup>WACKER-Institute of Silicon Chemistry, Technische  
Universität München, Lichtenbergstraße 4, 85748 Garching bei München, Germany*  
**An N-Heterocyclic Imino-substituted Disilene and Acyclic Silylene  
for the Activation of Small Molecules**

#### IL-15

**James A. Casey\*** and David L. Witker\*  
*Dow – Dow Silicones, Process Research and Development, 3901 S. Saginaw Rd., Midland, MI USA*  
**Silicon Quantum Dots**

#### IL-16

**Masaichi Saito**  
*Department of Chemistry, Graduate School of Science and Engineering, Saitama University, Shimo-  
okubo, Sakura-ku, Saitama-city, Saitama, 338-8570, Japan*  
**Synthesis of Dibenzopentalenides by the Reduction of Phenylsilylacetylenes –  
from by chance to on purpose**

#### IL-17

Bálint Somogyi<sup>1,2</sup> and **Adam Gali\*<sup>1,2</sup>**  
<sup>1</sup> *Wigner Research Centre for Physics, Hungarian Academy of Sciences, P.O. Box 49, H-1525  
Budapest, Hungary*  
<sup>2</sup> *Department of Atomic Physics, Budapest University of Technology and Economics, Budafoki út 8.,  
H-1111 Budapest, Hungary*  
**Theory on heavily co-doped silicon nanocrystals**

#### IL-18

**María Vallet-Regí**

*Department of Chemistry in Pharmaceutical Sciences, School of Pharmacy, Universidad Complutense de Madrid, Instituto de Investigación Sanitaria Hospital 12 de Octubre i+12, Plaza Ramón y Cajal s/n, Madrid, 28040 Spain*

**The Mesoporous silica nanoparticle: a good nanocarrier**

#### IL-19

**Shigeyoshi Inoue**

*Department of Chemistry, WACKER-Institute of Silicon Chemistry and Catalysis Research Center, Technische Universität München, Lichtenbergstraße 4, 85748 Garching bei München, Germany*

**Acyclic three-coordinate silanones: design, isolation and reactivity**

#### IL-20

**Stefanie Dehnen**

*Fachbereich Chemie und Wissenschaftliches Zentrum für Materialwissenschaften, Philipps-Universität Marburg, Hans-Meerwein-Straße 4, D-35032 Marburg, Germany*

**Materials Based on Heavy Analogues of Silicates, Silicones, or Silicides**

#### IL-21

**Thibaud Coradin**

*Sorbonne Université, CNRS, Collège de France, Laboratoire de Chimie de la Matière Condensée de Paris, 75005 Paris, France*

**Recent insights into the intracellular chemistry of silica**

#### IL-22

**Takeaki Iwamoto**

*Department of Chemistry, Graduate School of Science, Tohoku University, Sendai, 980-8578, Japan*

**Synthesis and Functionalization of Silyl-Substituted Disilenes via Selective Cleavage of Si-Si bond**

#### IL-23

**Norbert Auner**<sup>\*1</sup>, Alexander G. Sturm<sup>1</sup>, Tobias Santowski<sup>1</sup>, Kenrick M. Lewis<sup>2</sup>, Thorsten Felder<sup>3</sup>, Julia I. Schweizer<sup>1</sup>, Lioba Meyer<sup>1</sup>, and Max C. Holthausen<sup>1</sup>

<sup>1</sup> *Goethe-University, Institute of Inorganic + Analytical Chemistry, 60438 Frankfurt/Main, Germany*

<sup>2</sup> *Momentive Performance Materials Inc., Tarrytown, 10591 New York, United States*

<sup>3</sup> *Momentive Performance Materials GmbH, 51368 Leverkusen, Germany*

**Integrated process for the production of bifunctional monosilanes**

#### IL-24

**Hieronim Maciejewski**<sup>\*1,2</sup>, Magdalena Jankowska-Wajda<sup>1</sup>, and Olga Wolna<sup>1</sup>

<sup>1</sup> *Adam Mickiewicz University in Poznań, Faculty of Chemistry, Umultowska 89B, 61-614 Poznań, Poland, E-Mail: maciejm@amu.edu.pl*

<sup>2</sup> *A. Mickiewicz University Foundation, Poznań Science and Technology Park, Rubież 46, 61-612 Poznań, Poland*

**Synthesis of effective hydrosilylation catalysts on the basis of reactions of Rh and Pt complexes with ionic liquids**

## SHORT LECTURES

### SL-1

**Alexander C. Filippou\***, Priyabrata Ghana, Ujjal Das, David Hoffmann  
*Institute of Inorganic Chemistry, University of Bonn, 53121 Bonn, Germany*  
**Metal-Silicon Triple Bonds**

### SL-2

**Alok Sarkar**<sup>1</sup>, Debarshi Dasgpta<sup>1</sup>, Lalit Negi<sup>2</sup>, Meenal Mehra<sup>1</sup>, and Anubhav Saxena<sup>1</sup>  
<sup>1</sup> *Corporate R&D Center, Momentive Performance Materials (India) Private Limited, Survey No. 09, Hosur Road, Electronic City (West), Bangalore 560100, India*  
<sup>2</sup> *Momentive Performance Materials (India) Private Limited, B-3, Sipcot, Oragadam, Sriperumpudur, Kancheepuram Dist. 602105*

**Microstructures in Methylhydrosiloxane Copolymers and Their Impact On The Functionalized Silicone Polymers**

### SL-3

**Paul D. Lickiss\***<sup>1</sup>, D. Christopher Braddock<sup>1</sup>, Ben C. Rowley<sup>1</sup>, David Pugh<sup>1</sup>, Teresa Purnomo<sup>1</sup>, Gajan Santhakumar<sup>1</sup>, and Steven J. Fussell<sup>2</sup>  
<sup>1</sup> *Chemistry Department, Imperial College London, South Kensington, London SW7 2AZ, UK*  
<sup>2</sup> *Pfizer Ltd., Ramsgate Road, Sandwich Road, Kent, CT13 9NJ*

**Tetraaloxysilanes as Convenient and Inexpensive Reagents for Direct Amidation of Carboxylic Acids**

### SL-4

**Simon Grabowsky\***<sup>1</sup>, Malte Fugel<sup>1</sup>, Jens Beckmann<sup>1</sup>, Graham S. Chandler<sup>2</sup>, and Patrick Bultinck<sup>3</sup>  
<sup>1</sup> *University of Bremen, Institute of Inorganic Chemistry and Crystallography, 28359 Bremen, Germany*  
<sup>2</sup> *University of Western Australia, School of Molecular Sciences, Perth WA 6009, Australia*  
<sup>3</sup> *Ghent University, Department of Chemistry, 9000 Gent, Belgium*

**Covalency and ionicity do not oppose each other – Relationship between Si-O bond character and basicity of siloxanes**

### SL-5

**Luke C. Delmas\***, Paul D. Lickiss and Robert P. Davies  
*Imperial College London, UK*  
**Siloxane-Based Linkers in the Construction of Porous 3D MOFs**

### SL-6

**Oleg L. Tok\***  
*Institute of Inorganic Chemistry, Academy of Sciences of Czech Republic, 250 68 Řež, Czech Republic*  
*New family of helices built from siloles*

#### SL-7

**Bogdan Marciniak\***

*Center for Advanced Technology and Faculty of Chemistry, University of Adam Mickiewicz in Poznań, Umultowska 89c and 89b, 61-614 Poznań, Poland*

**Transformations of vinylsubstituted silsesquioxanes and heterosilsesquioxanes via olefin metathesis and metallative coupling procedures**

#### SL-8

**Jędrzej Walkowiak\***<sup>1</sup>, Kinga Stefanowska<sup>1,2</sup>, Jakub Szyling<sup>1,2</sup>, Tomasz Sokolnicki<sup>1,2</sup>, Adrian Franczyk<sup>1</sup>, Katarzyna Salamon<sup>1,2</sup>, and Mateusz Klarek<sup>1,2</sup>

<sup>1</sup> *Adam Mickiewicz University, Centre for Advanced Technologies, Umultowska 89c, 61-614 Poznan, Poland*

<sup>2</sup> *Adam Mickiewicz University, Faculty of Chemistry, Umultowska 89b, 61-614 Poznan, Poland*

**Green and sustainable methods in the synthesis of unsaturated organosilicon and related elements compounds**

#### SL-9

Titash Mondal<sup>1</sup>, Laxmi Samantara<sup>1</sup>, Bindu Manchanda<sup>2</sup>, **Shreedhar Bhat**<sup>1</sup>, Veena Choudhary<sup>2</sup>, and Anubhav Saxena\*<sup>1</sup>

<sup>1</sup> *Corporate R&D Center, Momentive Performance Materials(India) Private Limited, Survey No. 09, Hosur Road, Electronic City (West), Bangalore 560100, India*

<sup>2</sup> *Indian Institute of Technology Delhi, Hauz Khas, New Delhi 110016, India*

**Silicone Hydrogels and their Surface Characteristics**

#### SL-10

Magali Puillet<sup>1</sup>, Delphine Crozet<sup>1</sup>, Jean Raynaud<sup>1</sup>, Magali Bousquie<sup>2</sup> and **Vincent Monteil\***<sup>1</sup>

<sup>1</sup> *Laboratoire de Chimie Catalyse Polymères et Procédés (C2P2) Université de Lyon, Univ. Lyon 1, CPE Lyon, CNRS, Villeurbanne, France*

<sup>2</sup> *Elkem Silicones France SAS*

**New Classes of Catalysts for Hydrosilylation Reactions**

#### SL-11

**Tobias Santowski**<sup>1</sup>, Alexander G. Sturm<sup>1</sup>, Kenrick M. Lewis<sup>2</sup>, Thorsten Felder<sup>3</sup>, Norbert Auner\*<sup>1</sup>

<sup>1</sup> *Goethe University, Institute of Inorganic + Analytic Chemistry, 60438 Frankfurt/Main, Germany*

<sup>2</sup> *Momentive Performance Materials Inc., Tarrytown, 10591 New York, United States*

<sup>3</sup> *Momentive Performance Materials GmbH, 51368 Leverkusen, Germany*

**Efficient synthesis of valuable monosilanes from Direct Process Residue**

#### SL-12

**Carsten von Hänisch\***, Kirsten Reuter, Fabian Dankert

*Philipps-Universität Marburg, Hans-Meerwein-Straße 4, 35032 Marburg, Germany*

**Coordination chemistry of Hybrid Disila-Crown Ethers**

#### SL-13

**Georgii Nikonov\***

*Chemistry Department, Brock University, 1812 Sir Isaac Brock Way, L2S 3A1, Canada*

**Main-group catalysed hydrosilylation**

#### SL-14

**Harald Stueger<sup>1\*</sup>**, Michael Haas<sup>1</sup>, Viktor Christopoulos<sup>1</sup>, Thomas Lainer<sup>1</sup>,

Michael Holthausen<sup>2</sup>, Odo Wunnicke<sup>2</sup>

<sup>1</sup> *Graz University of Technology, Institute of Inorganic Chemistry, A-8010 Graz, Austria*

<sup>2</sup> *Evonik Creavis GmbH, D-45772 Marl, Germany*

**Selective Chemical Transformations of Neopentasilane**

#### SL-15

Martin W. Stanford<sup>1</sup>, Gary S. Nichol<sup>1</sup> and **Michael J. Cowley\***

*School of Chemistry, University of Edinburgh, David Brewster Road, Edinburgh, EH9 3FJ, UK*

**Steric Control of the Disilene – Silylsilylene Equilibrium**

#### SL-16

**Lutz Greb\***

*Universität Heidelberg, Im Neuenheimer Feld 270, 69120 Heidelberg, Germany*

**Lewis-acidity and reactivity of bis(catecholato)silanes**

#### SL-17

**Charles Danehey\*<sup>1</sup>**, Louisa Maio<sup>1</sup>, Shiu-Chin Su<sup>1</sup>, Angelika Sussman<sup>1</sup>

*Momentive Performance Materials, 769 Old Saw Mill River Road, Tarrytown, New York 10591, USA*

**Solving Problems Critical to the Business and Research Chemist by Utilizing NMR Spectroscopy**

#### SL-18

**Piotr Mazurek<sup>1</sup>**, Michael A. Brook<sup>2</sup>, Björn E.F. Ekbrant<sup>1</sup>, Anne L. Skov<sup>1\*</sup>

<sup>1</sup> *Danish Polymer Centre, Department of Chemical and Biochemical Engineering, Technical University of Denmark, DK-2800 Kgs. Lyngby*

<sup>2</sup> *Department of Chemistry and Chemical Biology, McMaster University, 1280 Main St., W., Hamilton, Ontario, Canada L8S 4M1*

**Glycerol-silicone elastomers – current status and perspectives**

#### SL-19

**Takayuki Kawashima\*<sup>1</sup>** and Hidekazu Arai<sup>2</sup>

<sup>1</sup> *Gunma University, Graduate School of Science and Technology, 1-5-1 Tenjin-cho, Kiryu, Gunma 376-8515, Japan*

<sup>2</sup> *University of Miyazaki, Faculty of Education, 1-1 Gakuen Kibanadai Nishi, Miyazaki 889-2192, Japan*

**Synthesis of Silacyclic Compounds Utilizing Aldehydes Activated by Silyl Cations**

#### SL-20

Valeria Chiaula<sup>1,2</sup>, Piotr Mazurek<sup>1</sup>, Anders Christian Nielsen<sup>2</sup>, Jens Tornøe<sup>2</sup>, Anne Ladegaard Skov<sup>\*1</sup>

<sup>1</sup> DTU, Dept. of Chemical and Biochemical Engineering, Danish Polymer Centre, Lyngby, Denmark

<sup>2</sup> Coloplast A/S, Wound & Skin Care, Humlebæk, Denmark

**Advanced Wound Care Adhesives with New Functional Properties**

#### SL-21

Emilie Molina<sup>\*1</sup>, Angelo la Rosa<sup>2</sup>, Marta Alvarez<sup>2</sup>, Alan Taylor<sup>2</sup>, Frédéric Lortie<sup>1</sup> and Jocelyne Galy<sup>1</sup>

<sup>1</sup> Univ Lyon, INSA Lyon, CNRS, IMP, F-69621 Villeurbanne, France

<sup>2</sup> TWI Ltd, Cambridge, United Kingdom

**Quantitative determination of grafted silane amount on modified silica nanoparticles**

#### SL-22

Terrance J. Hadlington<sup>1</sup>, Tibor Szilvasi<sup>2</sup>, Matthias Driess<sup>\*1</sup>

<sup>1</sup> Department of Chemistry, Metalorganics and Inorganic Materials, Technische Universität Berlin, Strasse des 17. Juni 135, Sekr. C2, 10623 Berlin, Germany

<sup>2</sup> University of Wisconsin—Madison, 1415 Engineering Drive, 53706, Madison, WI, United States

**Facile Access to Ni<sup>0</sup> π-Complexes of Silicon-Heteroatom Multiple Bonds**

#### SL-23

Stefan Schönekerl<sup>\*</sup> and Jörg Acker

Brandenburg University of Technology Cottbus-Senftenberg, Department of Physical Chemistry, Universitätsplatz 1, 01968 Senftenberg, Germany

**Behavior of electroless copper deposition onto multi-crystalline silicon in diluted hydrofluoric acid solutions**

#### SL-24

Yuriy N. Kononevich<sup>\*1</sup>, Anastasia S. Belova<sup>1</sup>, Anton A. Anisimov<sup>1</sup>, Viacheslav A. Sazhnikov<sup>2</sup>, Nikolay M. Surin<sup>3</sup>, Evgeniya A. Svidchenko<sup>3</sup>, Olga I. Shchegolikhina<sup>1</sup>, Aziz M. Muzafarov<sup>1,3</sup>

<sup>1</sup> A.N. Nesmeyanov Institute of Organoelement Compounds, Russian Academy of Sciences, 119991 Moscow, Russian Federation

<sup>2</sup> Photochemistry Center, Russian Academy of Sciences, 119421 Moscow, Russian Federation

<sup>3</sup> N.S. Enikolopov Institute of Synthetic Polymeric Materials, Russian Academy of Sciences, 117393 Moscow, Russian Federation

**Stereospecific multichromophoric systems based on organosilicon matrixes: synthesis and photophysical properties**

#### SL-25

Konstantin Kraushaar, Sandra Schwarzer, Marcus Herbig, Franziska Gründler, Christopher Ryll, Edwin Kroke<sup>\*</sup>

TU Bergakademie Freiberg, Institute for Inorganic Chemistry, 09599 Freiberg, Germany

**Aminosilanes – Insertion Reactions of Carbon Dioxide and Isocyanates**



#### SL-26

Lisa Pecher, **Ralf Tonner\***

*Philipps-Universität Marburg, Fachbereich Chemie, 35032 Marburg, Germany*

**Unusual reactivity at silicon from surface constraints**

#### SL-27

**Richard M. Laine**, Jun Guan, Jonathan, Rubio Arias

*Dept of Materials Sci. and Engin., and Macromolecular Sci. and Engin., University of Michigan, Ann Arbor, MI 48109-2136*

**Do silsesquioxane cages and polymers offer semiconducting properties**

#### SL-28

**Eva Barth** and Carsten Strohmann\*

*TU Dortmund, Inorganic Chemistry, 44227 Dortmund, Germany*

**Selective Synthesis and Transformation of Stereogenic Silicon Centers**

#### SL-29

**Thomas F. Fässler\***

*Technical University of Munich, Chair of Inorganic Chemistry with Focus on Novel Materials, D-85747 Garching, Germany*

**Properties of  $[\text{Si}_9]^{4-}$ ,  $[\text{Ge}_9]^{4-}$  and Specifically Functionalized Derivatives as well as Reactions of those Including  $[(\text{Me}_5\text{C}_5)\text{Si}]^+$**

#### SL-30

Arturo Zizumbo<sup>1</sup> and **Viatcheslav Jouikov\***<sup>2</sup>

<sup>1</sup> *Technological Institute of Tijuana, 22414 Tijuana, BC, Mexico*

<sup>2</sup> *UMR 6226 ISCR, University of Rennes 1, 35042 Rennes, France*

**Organosilanes and nanoporous Si via an HF-free electrochemical dissolution of silicon**

#### SL-31

**U. Das**, F. Gstrein, G. Schnakenburg, M. Straßmann and A. C. Filippou\*

*Institute of Inorganic Chemistry, University of Bonn, 53121 Gerhard Domagk Str. 1, Germany*

**Reactivity of  $\text{SiBr}_2(\text{caac}^{\text{Me}})$  ( $\text{caac}^{\text{Me}}$  = Cyclic Alkylamino Carbene)**

#### SL-32

**Rudolf Pietschnig\***, Denis Kargin, Stefan Isenberg

*University of Kassel, Institute of Chemistry and CINSaT, Heinrich-Plett-Straße 40, 34132 Kassel, Germany*

**Stereochemically constrained [3]ferrocenophanes with functional PEP bridge (E = group 14 element)**

#### SL-33

**Masafumi Unno\***, Rungthip Kunthom, Nobuhiro Takeda

*Gunma University, Faculty of Science and Technology, 376-8515 Kiryu, Japan*

**Synthesis of Butterfly Cages**

#### SL-34

**Yitzhak Apeloig\***, Arseni Kostenko, Daniel Pinchuk, Lieby Zborovsky, D. Bravo-Zhivotovskii  
*Schulich Department of Chemistry and the Lise Meitner Minerva Center for Computational Chemistry, Technion- Israel Institute of Technology, Haifa 32000, Israel*

**Isomerization Mechanisms Around E=E' (E,E'=C,Si) Bonds. Experiment and Theory**

#### SL-35

**Felicitas Lips\***<sup>1</sup>, Jan Keuter<sup>1</sup>, Kevin Schwedtmann<sup>1</sup>, Benedikt Guddorf<sup>1</sup>, Christian Mück-Lichtenfeld<sup>2</sup>

<sup>1</sup> *Westfälische Wilhelms-Universität, Institut für Anorganische und Analytische Chemie, Corrensstraße 28-30, 48143 Münster, Germany*

<sup>2</sup> *Westfälische Wilhelms-Universität, Institut für Organische und Theoretische Chemie, Corrensstraße 40, 48143 Münster, Germany*

**Synthesis and Reactivity of Silicon Ring Compounds**

#### SL-36

Krzysztof Kuciński, Joanna Kaźmierczak, **Grzegorz Hreczycho\***

*Adam Mickiewicz University, Umultowska 89b, 61-614 Poznań, Poland*

**Synthesis of organosilicon compounds catalyzed by scandium(III) trifluoromethanesulfonate**

#### SL-37

**Zhaowen Dong**<sup>1</sup>, Thomas Müller\*

*Carl von Ossietzky University of Oldenburg, Institute of Chemistry, Carl von Ossietzky Straße 9-11, D-26129 Oldenburg, European Union*

**Low-Valent Silicon Compounds Based on 2,5-Disilylsilole Dianions**

#### SL-38

**Holger Helten\***, Ozan Ayhan, Artur Lik, Thomas Lorenz, Merian Crumbach, Lars Fritze, Nicolas A. Riensch

*Institute of Inorganic Chemistry, RWTH Aachen University, Landoltweg 1, 52056 Aachen, Germany*

**Silicon/Boron Exchange Routes to Conjugated Organoboron Polymers**

#### SL-39

**Slawomir Rubinsztajn\***<sup>1</sup>, Julian Chojnowski<sup>1</sup>, Marek Cypryk<sup>1</sup>, Witold Fortuniak<sup>1</sup>, Urszula Mizerska<sup>1</sup>, Piotr Pospiech<sup>2</sup>, Malgorzata Basko<sup>1</sup>

<sup>1</sup> *Centre of Molecular and Macromolecular Studies, Polish Academy of Sciences, Sienkiewicza 112, 90363 Lodz, Poland*

<sup>2</sup> *Lodz University of Technology, Zeromskiego 116, 90-924 Lodz, Poland*

**Unexpected Reaction of Silyl Hydrides with Germanium(IV) Alkoxides in the Presence of B(C<sub>6</sub>F<sub>5</sub>)<sub>3</sub>**

#### SL-40

**Sandra Künzler\***, and Thomas Müller

*Carl von Ossietzky Universität Oldenburg, Institut für Chemie, 26129 Oldenburg, Germany*

**Oxygen vs Sulfur stabilized Silyl Cations – Which is the Better Lewis Acidic Catalyst**

**SL-41**

**Christoph Kroesche**\*<sup>1</sup>, Burkhard Standke<sup>2</sup>

<sup>1</sup> *EVONIK Resource Efficiency GmbH, Product Safety Department, 63457 Hanau, Germany*

<sup>2</sup> *EVONIK Resource Efficiency GmbH, Applied Technology Silanes for Industrial Applications, 79618 Rheinfelden, Germany*

**“Are polychlorosilanes really oxidizing agents?” Investigation of the reaction products of the international UN Test O.2**

**SL-42**

**Piotr Pawluć**\*<sup>1,2</sup>, Maciej Zaranek<sup>1,2</sup>, Samanta Witomska<sup>1,2</sup>, Maciej Skrodzki<sup>1,2</sup>, Monika Urbańska<sup>1,2</sup>

<sup>1</sup> *Adam Mickiewicz University in Poznań, Umultowska 89b, 61-614 Poznań, Poland*

<sup>2</sup> *Center for Advanced Technologies AMU, Umultowska 89c, 61-614 Poznań, Poland*

**Metal borohydrides as catalysts for (hydro)silylation reactions**

**SL-43**

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**Stepwise Substitution of Alkoxysilanes to Form Unsymmetrical Multifunctional Aminoalkoxysilanes**

**SL-44**

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**Novel Synthesis Route to Organo(chloro)silanes**

**SL-45**

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**Recent Developments in the Transition Metal Catalyzed Cross Couplings of Electrophilic Silanes**