



University of Southern California
Loker Hydrocarbon Research Institute
College of Letters, Arts and Sciences

Celebrate the 30th Anniversary of the Loker Hydrocarbon Research Institute and the
80th Birthday of Professor George A. Olah

with a chemistry symposium

“Chemical Challenges for the 21st Century”

October 4 – 5, 2007

Davidson Conference Center
Embassy Room

Thursday, October 4, 2007	Friday, October 5, 2007
Morning Session	Morning Session
8:00 Continental Breakfast	8:00 Continental Breakfast
8:30-8:45 Opening Remarks Session Chair: Thio Hogen-Esch , University of Southern California	8:45-9:05 Teruaki Mukaiyama , The Kitasato Institute, Japan “New Synthetic Methods in Organic Synthesis”
8:45-9:05 Gabor Somorjai , University of California, Berkeley “Frontiers of Surface Chemistry and Catalysis”	9:05-9:25 Richard Chambers , University of Durham, United Kingdom “Fluoroaromatic Chemistry, Old and New”
9:05-9:25 Helmut Schwarz , Technische Universität Berlin, Germany “Ligand and Cluster-Size Effects in the Metal-Mediated Activation of Methane: A Cold Approach to a Hot Problem”	9:25-9:45 Kyung Jung , University of Southern California “Asymmetric Oxidative Pd(II) Catalysis and Novel C-H Activation Catalysis”
9:25-9:45 Peter Stang , University of Utah “Recent Developments in Metal Directed Self-Assembly”	9:45-10:05 Markus Etzkorn , University of North Carolina “Fluorinated Molecular Clips-Towards Host-Guest Chemistry with a Twist”
9:45-10:05 Rainier Herges , Otto-Diels-Institut für Organische Chemie, Germany “Approaching the Rational Synthesis of Carbon Nanotubes”	10:05-10:35 Coffee Break Session Chair: Kyung Jung , University of Southern California
10:05-10:35 Coffee Break Session Chair: Subhash Narang , SRI International, California	10:35-10:55 Jean Sommer , Université Louis Pasteur de Strasbourg, France “H- and Copper(I) Zeolites, Nanoreactors for Organic Synthesis”
10:35-10:55 G. K. Surya Prakash , University of Southern California “Chemistry Towards Methanol Economy”	10:55-11:15 Kenneth Laali , Kent State University, Ohio “Ionic Liquids as Unconventional Media for Carbocation and Onium Ion Chemistry; Venturing Out of the Box. A Mini-Review”
10:55-11:15 Ripudaman Malhotra , SRI International, California “Replacing a Cubic Mile of Oil”	11:15-11:35 Douglas Klumpp , Northern Illinois University, Illinois “New Chemistry with Superelectrophiles”
11:15-11:35 Jun Nishimura , Gunma University, Japan “Cyclophanes Connected with Cyclobutane Rings: exo-Outstretching Effect Governing Exclusive Stereoselectivity”	11:35-11:55 Tomohiko Ohwada , The University of Tokyo, Japan “Aromatic Multifunctionalization Reactions Based on Highly Reactive Cationic Intermediates”
11:35-11:55 Shiro Kobayashi , Kyoto Institute of Technology, Japan “Enzymatic Polymerization for the Synthesis of Hybrid Polysaccharides”	11:55-12:15 Nicos Petasis , University of Southern California “Elements for the Discovery of New Organic Reactions”
Afternoon Session	Afternoon Session
12:00-1:30 Lunch – USC Town & Gown Session Chair: William Weber , University of Southern California	12:15-1:45 Lunch – Davidson Conference Center Session Chair: Gary Schrobilgen , McMaster University, Canada
1:30-1:50 Paul Schleyer , University of Georgia “No One Cares About Carbocations Anymore”	1:45-2:05 Andrei Yudin , University of Toronto, Canada “Amphoteric Molecules in Chemical Synthesis”
1:50-2:10 Martin Saunders , Yale University, Connecticut “The Use of Isotopic Perturbation as a Means of Obtaining Information About Carbocations”	2:05- 2:25 Bela Torok , University of Massachusetts, Boston “New Catalytic Processes for Environmentally Benign Production of Fine Chemicals”
2:10-2:30 Ted Sorensen , The University of Calgary, Canada “Structural Studies of 5-X-2-Adamantyl Cations”	2:25-2:45 Koop Lammerstma , VU University, Amsterdam “Silicates-New Venues Toward Stable Chiral Anions”
2:30-2:50 V. Prakash Reddy , University of Missouri-Rolla, Missouri “Persistent Small Ring Carbocations”	2:45-3:05 John Welch , State University of New York, Albany “New Approaches to Understanding Dialysis Related Amyloidosis: The Genetic Cassette Strategy for the Synthesis of Inhibitors of β_2 -Microglobulin Fibrillation”
2:50-3:20 Coffee Break Session Chair: Graham Sandford , University of Durham, United Kingdom	3:05-3:35 Coffee Break Session Chair: Robert Bau , University of Southern California
3:20-3:40 Hans-Ullrich Siehl , University of Ulm, Germany “Experimental and Computational Study of the Gas Phase Reaction of Trimethylsilyl Cation with Acetylene”	3:35-3:55 Sheldon Shore , The Ohio State University, Ohio “Extended Lanthanide-Transition Metal Arrays with Cyanide or Carbonyl Bridges: Syntheses, Structures, and Potential Applications”
3:40-4:00 Pierre Esteves , Universidad Federal do Rio de Janeiro, Brazil “Carbocations and Chemistry of Electrophiles: Alternative Views”	3:55-4:15 Karl Christe , University of Southern California “High Oxygen Compounds”
4:00-4:20 Herbert Mayr , Ludwig-Maximilians-Universität München, Germany “Electrophilicities and Electrofugalities of Carbocations: Two Sides of the Same Coin?”	4:15-4:35 Gregorio Asensio , Universidad de Valencia, Spain “Neighbouring Groups Activation in Palladium Catalyzed Csp3-Csp2 Bonds Formation”