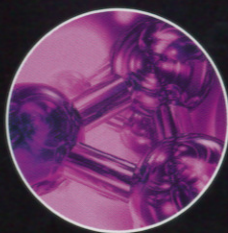


International Symposia on Advancing the Chemical Sciences (ISACS)



Challenges in Organic Chemistry and Chemical Biology (ISACS1)

6-9 July 2010 • San Francisco, USA

Programme and Abstracts



Conference Committee

David MacMillan, Princeton University, USA (Chair)

Stephen L Buchwald, MIT, USA

Benjamin F Cravatt, The Scripps Research Institute, USA

Matthew Gaunt, Cambridge University, UK

F Dean Toste, UC Berkeley, USA

Tuesday 6 July 2010

1600 - 1900 Registration

1900 - 2000 Welcome drinks reception

Wednesday 7 July 2010

0800 - 0900 Registration

0845 - 0900 Opening presentation

0900 - 0940 Eric N. Jacobsen
Studies in H-Bonding Catalysis

0940 - 1020 Andreas Pfaltz
Iridium-Catalyzed Asymmetric Hydrogenation

1020 - 1120 Coffee break

1120 - 1200 Linda C. Hsieh-Wilson
Chemical Approaches to Elucidating the Neurobiology
of Carbohydrates

1200 - 1240 Peter H. Seeberger
From Automated Carbohydrate Synthesis to Novel
Vaccines and Diagnostics

1240 - 1410 Lunch

1410 - 1450 M. Christina White
C—H Oxidation and Organic Synthesis

1450 - 1530 Erik J. Sorensen
Rapid Formation of Molecular Complexity in Natural
Product Synthesis

1530 - 1630 Coffee break

1630 - 1710 Stephen L. Buchwald
Palladium- and Copper-Catalyzed Processes for the
Synthesis of Pharmaceutically-Relevant Molecules

1730 - 1830 Poster session 1
A – Metal and Organocatalysis
B – Total Synthesis of Natural Products
C – Bioorganic Chemistry and Medicinal Chemistry

Thursday 8 July 2010

0900 - 0940	David MacMillan New Catalysis Concepts
0940 - 1020	Keiji Maruoka Design of High-Performance Organocatalysts for Catalytic Asymmetric Synthesis
1020 - 1120	Coffee break
1120 - 1200	Benjamin F. Cravatt Activity-Based Proteomics and its Application for Enzyme and Inhibitor Discovery
1200 - 1240	Jason W. Chin Reprogramming the Code of Life
1240 - 1410	Lunch
1410 - 1450	Ben L. Feringa The Art of Building Small From Molecular Switches to Molecular Motors
1450 - 1530	Christopher A. Hunter Fundamentals of Molecular Recognition
1530 - 1630	Coffee break
1630 - 1710	Vy M. Dong An Enantioselective Approach to Lactones: Design, Mechanism and Scope
1710 - 1750	F. Dean Toste Reactivity Driven Discovery of Gold(I)-Catalyzed Reaction for Organic Synthesis
1800 - 1900	Poster session 2 D – Chemical Biology E – New Synthetic Methods

Friday 9 July 2010

0900 - 0940	Justin Du Bois Chemical Approaches to Sodium Ion Channel Study: Paralytic Shellfish Poisons as Tools
0940 - 1020	Takashi Ooi Molecular Design of Chiral Tetraaminophosphonium Salts and Their Unique Asymmetric Catalyses
1020 - 1120	Coffee break
1120 - 1200	Carolyn R. Bertozzi Bioorthogonal Chemistry - Biologically Driven Synthetic Methodology
1200 - 1215	Closing remarks