

Gordon research conference programs

Stereochemistry

June 9–14 1996

Salve Regina University

Newport, RI, USA

Sarah E Kelly, Chair, and Franklin A Davis, Vice Chair

Scott Denmark, University of Illinois at Urbana-Champaign, USA: **Asymmetric catalysis with chiral Lewis bases**

Amir Hoveyda, Boston College, USA: **Recent advances in asymmetric catalysis**

Stuart Schreiber, Harvard University, USA: **Studies at the interface of chemistry and biology**

Gregory L Verdine, Harvard University, USA: **Stereochemical perspective on protein DNA interactions**

Samuel Danishefsky, Sloan Kettering Institute for Cancer Research, USA: **Glycals in organic synthesis: the evolution of new strategies for the convergent assembly of oligosaccharides and other glycoconjugates**

Stephen Buchwald, Massachusetts Institute of Technology, USA: **Asymmetric reductions using early transition metal catalyst**

Clayton Heathcock, University of California at Berkeley, USA: **Why is a natural product with eight stereocenters racemic?**

W Clark Still, Columbia University, USA: **Synthetic receptors of peptides**

Erick Carreira, California Institute of Technology, USA: **Catalytic enantioselective aldehyde addition reactions**

Gregory Fu, Massachusetts Institute of Technology, USA: **New reactions of organotin reagents**

Frank Fang, Glaxo-Wellcome, USA: **Enantioselective synthesis of new drug candidates**

Laura Kiessling, University of Wisconsin-Madison, USA: **Saccharide-protein interactions: exploring and exploiting multivalency**

Tarek Sammakia, University of Colorado at Boulder, USA: **Synthetic and mechanistic studies of oxocarbenium ions and carbanions**

Kendall N Houk, University of California at Los Angeles, USA: **Theoretical models of stereoselective reactions**

Andreas Pfaltz, Max-Planck-Institute, Germany: **Asymmetric catalysis with chiral metal complexes: C₂-symmetric versus non-symmetric ligands**

Edward Grabowski, Merck Research Laboratories, USA: **Addition of lithium acetylides to prochiral imines and ketones mediated by chiral lithium alkoxides**

Steven Burke, University of Wisconsin-Madison, USA: **Design, synthesis and study of unnatural ionophores**

William Pirkle, University of Illinois at Urbana-Champaign, USA: **Determinations of enantiomeric purity and assignment of absolute configuration using a rationally designed chiral stationary phase**

Enzymes, coenzymes and metabolic pathways

July 14–18, 1996

Kimball Union Academy

Meriden, NH, USA

David E Cane and Michael A Marletta, co-chairs

Frontiers of enzymology

Christopher T Walsh, Harvard Medical School, USA: **Molecular studies on bacterial resistance to vancomycin**

Gregory A Petsko, Brandeis University, USA: **Crystallography and mechanism: where are we and where are we going?**

Radical enzymes

JoAnne Stubbe, Massachusetts Institute of Technology, USA: **Radicals, radicals, and yet more radicals**

John Lipscomb, University of Minnesota, USA: **Intermediates in the substrate and oxygen activation cycle of methane monooxygenase**