

1997 PROGRAM

8:00 a.m. Registration and Coffee - Room 137, Chemistry-Physics Building

8:45 a.m. Welcome by Dr. Fitzgerald Bramwell, Vice President for Research and Graduate Studies, University of Kentucky - Room 139, Chemistry-Physics Building

8:50 a.m. Introductory Remarks - Dr. Art Cammers-Goodwin, University of Kentucky

9:00 a.m. Dr. Arno F. Spatola, University of Louisville
Combinatorial Chemistry: The End of Rational Drug Design? Lessons from Macrocyclic Libraries

- Basic Combinatorial Methods
- A Brief Historical Overview
- A "Realistic" View of the Methods-Not a Panacea
- Why So Much Industrial Attention?
- Parallel Synthesis vs. Mixtures
- The Deconvolution Problem
- Combinatorial Chemistry at the University of Louisville

9:40 a.m. Discussion

9:50 a.m. Dr. Jonathan A. Ellman, University of California at Berkeley
Design, Synthesis, and Evaluation of Small Molecule Libraries

- General Philosophy for the Design of Combinatorial Schemes
- Prudent Selection of Classes of Compounds for Combinatorial Approaches
- Heuristic Bioactivity of Known Drugs as Starting Points in Combinatorial Approaches
- Synthetic Approaches to Maximize Molecular Diversity

10:40 a.m. Discussion

10:50 a.m. Dr. Kim D. Janda, The Scripps Research Institute and The Skaggs Institute for Chemical Biology
From Combinatorics to Soluble Polymer Supported Synthesis

- Encoded Combinatorial Chemistry
- Recursive Deconvolution
- Liquid Phase Combinatorial Synthesis of Peptides
- Peptidomimetics, and Small Molecules
- Multipolymeric Reactions
- Combizymes
- Combinatorial Polymer Synthesis

11:40 a.m. Discussion

11:50 a.m. Dr. Hendrik Mario Geysen, Glaxo Wellcome Pharmaceuticals Inc.
Combinatorial Chemistry: A New Paradigm for Drug Discovery

- Personalized Historical View of Combinatorial Chemistry
- Combinatorial Chemistry: Perspective of the Pharmaceutical Industry
- Combinatorial Chemistry at Glaxo Wellcome
- Combinatorial Approaches to Reaction Screening
- Encoding Strategies for Chemical Libraries
- Coupling Chemical Libraries with High Throughput Screening of Biological Targets

12:40 p.m. Discussion

1:00 p.m. Buffet Lunch, Faculty Club (Please return registration form by April 1, 1997 for reservations. Cost \$10.00 to be paid at registration.)

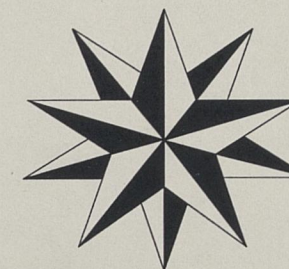
3:00 p.m. Discussion with Graduate Students Room 137, Chemistry-Physics Building

Department of Chemistry
University of Kentucky
Lexington, KY 40506-0055



Twenty-Third Annual
Symposium on

Chemistry & Molecular Biology



established in the memory of
Anna S. Naff

The Role Combinatorial Chemistry in Drug Design

SPEAKERS

Jonathan A. Ellman
Hendrik Mario Geysen
Kim D. Janda
Arno F. Spatola

Tuesday, April 8, 1997

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