



New Haven Section

VOLUME 21, NUMBER 3, September/October 2004

September 21, 2004 – NEW HAVEN SECTION MEETING

Dr. Derek Lowe, Bayer Healthcare

will present

"Drug Discovery Through Fragment Assembly"

October 19, 2004 – NEW HAVEN SECTION MEETING

Prof. James Masi, Western New England College

will present

**"Picking Up Heavy Metals:
How to Build a Superparamagnetic Polymer"**

Call for nominations

Meet the new chair-elect

NCW 2004 – Coming Soon

September Meeting
Tuesday September 21, 2004

Yankee Silversmith

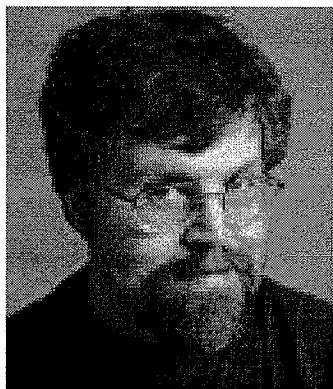
Dr. Derek Lowe

will present

Drug Discovery Through Fragment Assembly

Yankee Silversmith
1033 North Colony Road
Wallingford, CT
(203) 269-5444

Dinner: 7:00 p.m.
Social Hour: 6:00 p.m.
Lecture: 8:00 p.m.



Abstract: Lead generation in drug discovery is an increasingly difficult task, and new approaches will soon be needed. Existing drug development strategies often produce compounds whose molecular weights are too high to be useful, but optimizing from low-weight structures is problematic. No one wants to start with a ten-micromolar lead compound! One possible solution is fragment assembly. Several research groups have reported methods to combine small structures to produce new ligands. An assembly of weakly bound structures could yield a very potent binder if properly combined. This field of research appears

promising, but each of the reported ideas has its own set of potential problems. Successes (and failures) from the literature will be shown.

Brief Biographical Sketch: Dr. Derek Lowe received his BA from Hendrix College (1983) and his PhD from Duke University (1988). After a Humboldt postdoctoral fellowship in Germany, he joined the CNS drug discovery group at Schering-Plough. Over the next eight years, he contributed to several programs targeting schizophrenia and Alzheimer's. He then joined Bayer's Pharmaceutical Division in West Haven in 1997, and has since worked on numerous drug targets in the fields of metabolic disease and cancer.

How Can You Be Part of the Solution to Build Chemistry's Future?

Do you want to provide resources and training to chemistry teachers, support outreach efforts to bring depth and diversity to chemistry in the coming century, help young scholars enter the field of chemistry and more? Make a gift today to the American Chemical Society. You can be part of the solution and help build chemistry's future.

To learn more about this, visit

http://www.chemistry.org/portal/resources/ACS/ACSCContent/gifts/pledge_brochure.pdf and <http://www.chemistry.org/gifts>.

Yankee Silversmith – Tuesday September 21, 2004

Entrée choices: Baked Chicken Breast stuffed with 5 grains, mushrooms and spinach, topped with orange cranberry glaze
Baked Boston Scrod, Heritage style
Roasted Center Cut Pork Loin stuffed with 5 grains, apples & sausage, capped with cinnamon, apple chutney demi-glaze

Price: ACS Members/Guests \$26
Teachers/Retirees/Students \$23
Price includes tax and tip.

All entrees are served with Chef's Soup of the day, Silversmith (Garden) salad, dessert of strawberry shortcake with homemade biscuit, coffee, tea or decaf.

Please make your reservation by contacting **Ning Su** by **Monday September 20, 2004**, at (203) 812-3928 or e-mail to: ning.su.b@bayer.com. Please leave your name, telephone number, dinner choice and number of reservations desired. Cancellations must be made 24 hours prior to the meeting or you may be charged for dinner.

You may also attend the lecture without the dinner. Please notify Mr. Su so he can keep the count of number of attendees, and arrive at the restaurant by 8:00 PM when the lecture will normally begin.

Directions to Yankee Silversmith

Traveling North or South on I-95 (from New York or Rhode Island): I-95 (North or South) to I-91 North (Hartford), go to Exit 15 (Durham/Yalesville). Left off exit onto Rt. 68W. Proceed 2.2 miles (6 lights) to Rt. 68 overpass. (Rt. 5 is directly under overpass) Turn right on Off Ramp. At the end of the Ramp turn right onto Rt. 5. The Yankee Silversmith is ½ mile on the left side.

Traveling South on I-91: Exit 15, take right off exit onto 68W. Proceed 2 miles (5 lights) to Rt. 68 overpass. (Rt. 5 is directly under overpass) Turn right on Off ramp. At the end of the ramp turn right onto Rt. 5. The Yankee Silversmith is ½ mile on the left side.

Traveling North on the Merritt or Wilbur Cross Parkway (Rt. 15): Exit 66, turn right at the end of the ramp. The Yankee Silversmith is a fraction of a mile on the left.

Traveling South on the Merritt or Wilbur Cross Parkway (Rt. 15): Exit 66, the Yankee Silversmith is at the end of the ramp straight ahead.

Major Changes in Section Leadership

It is with regret that we have lost Susan Tomlinson as our Section's Chair-elect. Susan has changed her place of employment and will no longer be residing in the area. Consequently she has resigned her office with the Section but not before finding an able replacement. Ning Su of Bayer Corporation will replace Susan as Chair-elect.

Ning received his BS from the University of Inner Mongolia. He holds Master of Science degrees in Organic Chemistry from the Chinese Academy of Sciences and from Brigham Young University. In 2002 he obtained an MBA from the University of New Haven and has recently received a Certificate in Pharmaceutical Studies from Fairleigh Dickinson University

October Meeting

Tuesday October 19, 2004

Jesse Camille's Restaurant

Prof. James Masi

will present

Picking Up Heavy Metals: How to Build a Superparamagnetic Polymer

Jesse Camille's Restaurant
615 North Church Street
Naugatuck, CT 06770
(203) 723-2275

Dinner: 7:00 p.m.
Social Hour: 6:00 p.m.
Lecture: 8:00 p.m.



Abstract: Some "aha" thoughts have been the source of new directions in research for all who work in the sciences and engineering. Such studies on sequestrants and inclusion compounds for heavy metal cleanup have led researchers to study how these materials can be agents for making new magnetic polymers. Many new polymer (organic) materials have been fabricated in which there is sufficient electronic exchange as well as stability in both thermally and chemically at room temperature and above. This paper gives an overview of the synthesis of promising new complex polymer building blocks that can yield ferro-, ferri-, and super-paramagnetic materials for devices of the future in power, signal, display, and

data storage devices. The use of these methods to produce ferri-, para-, and superparamagnetic materials has changed our way of thinking about how to fabricate magnetic devices with properties heretofore unrealizable. New materials from the saccharide, sequestrant, and epoxy classes of materials are explained. Some devices made from these materials and early results on newer materials are discussed.

Brief Biographical Sketch: Dr. James V. Masi received his B.S. in Physics from Fairfield University, the M.S. in Physics from Long Island U., and the Ph.D. in Applied Science (Materials Science) from the University of Delaware. He has over 45 years experience in industry and academia and has worked and researched in solid-state devices, liquid crystals, corrosion, semiconductors, luminescence, energy devices, electromagnetics, dental materials, and other areas of materials science. He joined Western New England College in 1980 and is presently professor emeritus of Electrical Engineering and Bioengineering. He was Executive Director of The National Center for Telecommunications Technologies (NSF Center of Excellence) from 1997-2001. He is also an adjunct professor at the University of Southern Maine and a consultant for Sandia National Labs and ITT. He holds over 60 patents, and has authored over 140 articles and papers, 3 books, and 3 videotapes.

Jesse Camille's Restaurant – Tuesday October 19, 2004

Entrée choices: Chicken Cordon Bleu
Baked Stuffed Shrimp
Pan Seared Filet of Salmon with a dill butter sauce
Veal Medallions Marsala with Mushrooms

Price: ACS Members/Guests \$24
Teachers/Retirees/Students \$21
Price includes tax and tip.

All entrees are served with Penna Pasta with Marinara sauce, fresh Garden salad, homemade rice pudding, coffee, tea or decaf.

Please make your reservation by contacting **Ning Su** by **Monday October 18, 2004**, at (203) 812-3928 or e-mail to: ning.su.b@bayer.com. Please leave your name, telephone number, dinner choice and number of reservations desired. Cancellations must be made 24 hours prior to the meeting or you may be charged for dinner.

You may also attend the lecture without the dinner. Please notify Mr. Su so he can keep the count of number of attendees, and arrive at the restaurant by 8:00 PM when the lecture will normally begin.

Directions to Jesse Camille's Restaurant

FROM New Haven: Whalley Av (Rt 63) north through Woodbridge and Bethany (Amity Rd). Continue through Naugatuck staying on Rt 63. The restaurant is on the right about ¾ mile past the intersection with Rt 68.

FROM Meriden and Hartford: I-91 or I-691 to I-84 West. Exit I-84 at Exit 17 – Naugatuck onto Rt 64. Left at the stoplight onto Rt 63 south. Restaurant is approximately 2 miles south, on the left.

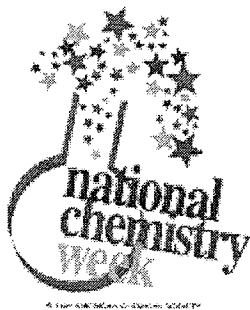
FROM Danbury/Southbury: I-84 East to Exit 17 – Naugatuck. Right at exit onto Rt 63 south. Restaurant is approximately 1.5 miles south, on the left.

Assess Your Work Style with A.C.T.

If you are considering a career move or just feeling stuck in your current role, take advantage of Advanced Career Tools (A.C.T.), an assortment of career-building tools launched by the ACS Department of Career Services.

Among the tools available at chemistry.org/careers is the Behavioral Style Assessment, which takes ten minutes to complete, and provides users with a one-paragraph assessment of their work style at no charge. Understanding your strengths provides you with greater confidence in interviews and enhances your ability to communicate in the workplace. A 26-page report, analyzing the results of the Behavioral Style Assessment in depth, is available for a fee.

Other A.C.T. features include nearly 300 articles of frequently asked questions (FAQs) on job search and career development, access to professional career coaches, products such as CDs and books, and customized features such as e-mail alerts on topics of specific interest to the user.



National Chemistry Week: Health & Wellness!

Each year the American Chemical Society's (ACS) National Chemistry Week (NCW) campaign reaches millions of people with positive messages about the contributions of chemistry to their daily lives. It is the one time during the year that chemists, regardless of background, unite with the common goal of spreading the word that chemistry is good for our economy, our health, and our well-being. The date for the 2004

celebration will be October 17 – 23 with the theme, "Health & Wellness!"

It is not too late for you to join the celebration! Some ways that you can contribute to the NCW campaign are: performing chemical demonstrations at a neighborhood school; conducting hands-on activities with children at museums, malls, or libraries; or writing articles or letters to the editor of your local paper.

Irene Covey among NCW Coordinators Honored in Philadelphia Meeting

Irene Covey from our Section was among those honored at the recent national meeting. Irene has served as our NCW coordinator for thirteen years. It is only through the hard work, commitment and dedication of our volunteers that the National Chemistry Week program has grown from its beginnings in 1987 as National Chemistry Day to reaching an estimated 31 million people last year. The Committee on Community Activities and the Office of Community Activities recognized all of those individuals with five or more years of service as NCW Coordinator during the "Celebrating Chemistry—Reunion, Recognition, and Highlights" event at the ACS national meeting in Philadelphia. Honorees from the other Connecticut Sections included Ellen Anderson, Connecticut Valley, 10 years and Babu George, Western Connecticut, seven years. Thanks to these volunteers for all of their efforts to make National Chemistry Week a success.

Bayer Supports National Chemistry Week 2004

National Chemistry Week 2004 is almost here. The theme for NCW 2004 is "Health and Wellness" and the unifying event is hosting a "health fair." Bayer HealthCare Diagnostics Division has made an extraordinary in-kind contribution to the 2004 American Chemical Society National Chemistry Week Celebration: "Health and Wellness" valued at more than \$260,000! The NCW Coordinator in each ACS local section will be offered 2 digital glucometers with test strips, hundreds of CliniStix and MultiStix (urinalysis test strips), testing standard solutions and tablets, as well as test tubes and paper cups. The donation was made possible due to the efforts of former ACS President Helen Free and Senior Vice President Joe W. Martin of Bayer Healthcare.

The 2004 ACS Matching Gift Fund matched Bayer HealthCare's gift one-for-two. The ACS Office of Community Activities will use the matching funds to enhance offerings for NCW including a web-based interactive for children, expansion of the chemistry.org/kids website, and materials for ACS local sections.

Situations Wanted

POLYMER CHEMIST, PhD, with 22 years experience and awards in electronic and industrial coatings, including 15 years at IBM Research, seeks senior scientist or manager position. Please contact John, at 203-575-9170 or JLL11@aol.com

The Ad Guidelines are as follows: Situations-wanted by New Haven Section member - **No Charge**. Non-members **\$20 for four lines**. Want Ads are **\$40 for a 4-line ad** or **\$75 for a full-page (4 x 8 inch)**.

Call for nominations for 2005 Officers

Three positions on the Section's Executive Committee are up for election in 2005. These are: Chair-elect, Treasurer and Alternate Councilor. Chair-elect is a three-year position with the successful candidate becoming Section Chair in the second year and Past-chair in the third year. The Chair-elect organizes the Section's meetings and in the second year, presides over all Section activities. The Treasurer, a two-year position, is responsible for all financial duties in the Section. The Alternate Councilor, a three-year position, acts as liaison between the Section and the national ACS when the Councilor is unavailable to fulfill these duties. If you are interested in running for one of these positions, contact Ali Banijamali at (203) 573-3220 or e-mail at ali.Banijamali@cromptoncorp.com.



2005 ACS ProSpectives Conferences

Detailed information for these, and other ACS ProSpectives conferences, can be found by visiting www.acsprospectives.org

Process Chemistry in the Pharmaceutical Industry

February 6-9

Miami, Florida

Chairs: Margaret Faul, Amgen; Joseph Armstrong, Merck

Interplay of Chemistry and Biology in Integrative Biology

March 6-9

Miami, Florida

Chairs: Stephen Naylor, MIT; Michael Briggs, Vertex Pharmaceuticals

Advanced Forensic Science Applications for the Food and Drug Industries

May 1-4

San Diego, CA

Chair: Fred Fricke, FDA

Discovery and Selection of Successful Drug Candidates

May 15-18

Boston, MA

Chair: Andrew Combs, Incyte Corporation

(Tentative) Organic Microelectronics (joint with IEEE and MRS)

July 10-13

Ogunquit, Maine (tentative)

Chairs: Tobin Marks, Northwestern (ACS); Henning Sirringhaus, Cambridge University (IEEE), George G. Malliaras, Cornell University (MRS)