November 14, 2001 - NEW HAVEN SECTION MEETING

Dr. Paul and Brenda Cohen,
will speak on

America's Scientific Treasures

Section News and Announcements

- SECTION WEB SITE
- ELECTION RESULTS
- Situations Wanted
- 50 Year member
- Photos from September’s meeting
Note: The Bulletin can now be seen on the Section's NEW web site at URL: http://membership.acs.org/N/NewHaven

2001 marks the 125th anniversary of the American Chemical Society and the 89th anniversary of the founding of the New Haven Section. One cannot think of a better reason to celebrate and become involved in such a tradition.

@ The Graduate Club, Wednesday November 14, 2001

Dr. Paul and Brenda Cohen

will speak on

America's Scientific Treasures

The Graduate Club Social Hour: 6:00 p.m.
115 Elm Street Dinner: 7:00 p.m.
New Haven, CT Lecture: 8:00 p.m.
(203) 624-3197

In a friendly and entertaining style, the Cohens' describe a wide variety of unique places to visit as described in their book America's Scientific Treasures, published by the American Chemical Society. These sites are drawn from throughout the United States and focus on science and technology suitable for adult science lovers. Among the attractions are museums highlighting various aspects of science and technology, homes of famous scientists, unusual geological formations, botanical gardens, zoos, and much more. The presentation can be tailored to the audience, from the generalist to the scientist.

Paul and Brenda met while undergraduates at Brooklyn College in New York City; Brenda was a history major and Paul, a chemistry education major. They married after graduation in 1961 and immediately set out on a cross-country trip, visiting National Parks and museums along the route. Paul went on to complete his master's degree at the University of Illinois, Champaign-Urbana, in 1963 and earned his doctorate degree from Temple University, Philadelphia, in 1975. In his professional life, Paul has presented dozens of papers, published two books on chemistry, and written a number of articles and book reviews. Today Brenda is on the staff at the College of New Jersey, and Paul is a professor of chemistry at the same institution. As the two traveled the world on the road of life, they shared their different interests in history and science, until these fascinations merged. Their love of travel, parks, and museums has not waned over the years. Together the Cohens' have presented several papers and published nearly 40 articles about museums, aquariums, parks, and the homes of famous scientists. In "America's Scientific Treasures", published by the American Chemical Society, they share over 300 of their favorite places and their love of these sites with the readers. In this slide presentation, viewers get to see and learn about a number of the Cohens' very favorite places.

Directions to the Graduate Club

FROM 91 NORTH, HARTFORD AREA:
Take 91 South, once in New Haven. Take exit 3 (Trumbull St. exit), see footnote below for street parking.

FROM 95 NORTH, NEW LONDON AREA: Take 95 South (West) to New Haven - then follow signs to 91 North, Hartford & Springfield, once on 91 North take exit 3 (Trumbull St. exit), see footnote below for street parking.

FROM SOUTH, NEW YORK, STAMFORD, ETC.: Take 95 North (East) to New Haven - then follow signs to 91 North, Hartford & Springfield, once on 91 North take exit 3 (Trumbull St, exit), see footnote below for street parking.

Dinner includes fresh tossed salad with house dressing, bread, entree, coffee/tea and dessert.

Entree Choices: New York Sirloin $20.00
Stuffed Eggplant $20.00
Filet of Sole $20.00

Prices include tax and tip.

Please make your reservation by contacting Dr. Kevin Jackson by Friday, November 9, 2001, at (203) 573-3462. Discounts available to high school/elementary school teachers, retired or unemployed chemists, and students. Please leave your name, telephone number, choice of entree, and number of reservations. 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. Simply notify Dr. Jackson
FOOTNOTE
At end of exit 3 count the traffic light you are faced with as #1, proceed straight ahead on Trumbull St. for a total of 4 traffic lights. At the 4th traffic light, turn left onto College Street, Go 2 traffic lights and take a left onto Elm Street, the Graduate Club is approximately 150 feet on the left side of Elm Street.

VALIDATED AND STREET PARKING INFORMATION
Two hour validated parking available at Grove Street Parking Garage (on right hand side of Grove Street), between Orange and Church streets,

One hour validated parking available at the CT. Financial Center, on Elm Street past The Graduate Club, behind the New Haven Savings bank,

AFTER 4 P.M. EVENINGS AND WEEKEND PARKING IN YALE LOT #51:
Entrance to Lot #51 is on Temple Street. At end of exit 3, count the traffic light you are faced with as #1, then proceed straight ahead on Trumbull Street a total of 3 traffic lights, at third light take a left onto Temple Street, go two blocks (past Grove and Wall Streets), entrance for Lot #51 will be the first driveway past Wall Street.

SECTION BYLAWS:
A vote on the section by-laws was conducted at the September 19, 2001 meeting. The by-laws were passed unanimously by the members in attendance.

SECTION ELECTIONS:
The ballots for the section election have been counted and validated. The results are as follows:

Program Chair/Chair-Elect – Ali R. Banijamali
Secretary – Andri L. Smith
Alternate Councilor – Caroline Masselli.

The section extends its thanks to Kent Marshall and congratulations to all!

NERM 2004
September Meeting Photos

Barbara Foster with the Section Program Chair, Kevin Jackson

Barbara Foster discussing an application with member, Bob Ohm

New Haven Section’s 2001 50 Year Member –

2001 50 year Member is Dr. John D. Florio. Congratulations on this major milestone in your career from the New Haven Section!

- Local Section members who are seeking employment opportunities may place a "Situation Wanted" ad in an upcoming issue of this newsletter at no cost. Ads should be constructed in a format similar to the "Situation Wanted" listings, which appear in C&E NEWS. Submit a copy of your ad directly to smily4594@worldnet.att.net. We encourage all section members to read these ads and to provide networking support to assist in identifying potential employment opportunities.

- Is your resume up to date? An ACS booklet entitled "Tips on Resume Preparation" is available from your Local Section Career Program Coordinator. For information contact C. Fenn at carol.fenn@quinnipiac.edu or call her at (203) 582-8254.
The Ad Guidelines are as follows: Situations-wanted by Section member - **No Charge**. Non-members **$ 85 for four lines**. Want Ads are **$ 85 for a 4-line ad** and for a "**full-page (4 x 8 inch)" ad, the fee is $200.**

A.R. Smilo, Secretary and Newsletter Editor
Words from Your Editor ...

Please note the guidelines for want ads and situations-wanted to be put into the New Haven Section Bulletin. A. Richard Smilo, Newsletter Editor and Secretary New Haven Section ACS.

DATED MATERIAL

New Haven Section Bulletin
A. Richard Smilo, Editor
Benson Road
Middlebury, CT 06749
New Haven Section

March 21, 2002 - NEW HAVEN SECTION MEETING

Dr. James O’Brien,
Will speak on

Famous Mad Hatters

April 18, 2002 – NEW HAVEN SECTION MEETING

Dr. Michael Henchman
Will speak on

The Science Behind Art

Section News and Announcements

- NEW WEB SITE
- Section Thanks Outgoing Chair, Donna Griffen
- New Section Secretary, Councilor and Program Chair
Note: The Bulletin can now be seen on the Section's NEW web site at URL: http://membership.acs.org/N/NewHaven

@ The Dolce Heritage Hotel, Thursday, March 21, 2002

Dr. James O’Brien

Will speak on

Famous Mad Hatters

Dolce Heritage Hotel
522 Heritage Road
Southbury, CT
203-267-2662

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

The origin of the phrase "mad as a hatter" is due to the incidence of odd behavior on the part of workers in the early felt hat industry. Their odd behavior, or "madness," was the result of mercury poisoning contracted on the job. This presentation will discuss the recent mercury analyses done on the hair of Isaac Newton; the deterioration of the great mind of Michael Faraday; the bizarre behavior of Boston Corbett, the man who shot John Wilkes Booth, the assassin of Abraham Lincoln; and the possibility that mercury poisoning affected the behavior of other famous people such as King Charles II of England, the author William Makepeace Thackeray, and a number of famous artists such as Rubens, Renoir, Dufy, and Klee. "Mad" women in history have been more difficult to locate. One eminent female whose health was affected by chemical exposure was Clare Boothe Luce. Her health problems while serving as U.S. ambassador to Italy in the 1950s will be discussed.

James F. O'Brien was born in Philadelphia. He received a B.S. in chemistry from Villanova University and a Ph.D. in chemistry from the University of Minnesota. Following postdoctoral work at the Los Alamos Scientific Laboratory in New Mexico, Dr. O'Brien joined the faculty at Southwest Missouri State University. In 1992, Dr. O'Brien received the Southwest Missouri State University Excellence in Teaching Award; in 1994, he received the university's Excellence in Research Award; and in 1996, the university named him Distinguished Scholar. His recent interests have centered on molecular orbital calculations of the properties of organometallic and inorganic species. He also devotes time to studying the history of chemistry.

@ The Crossroads Restaurant; Thursday, April 18, 2002

Dr. Michael Henchman

Will speak on

The Science Behind Art

Crossroads Restaurant
249 State Street
North Haven
(203) 407-1277

Social Hour: 5:30 p.m.
Dinner: 6:15 p.m.
Lecture: 7:00 p.m.
Abstract: Science aspires to be objective whereas art is subjective. Given this divide, we need to remember that works of art are also material objects. Should dirty old Mona Lisa be cleaned and, if so, how? Is Rembrandt's "Polish Rider" a fake? Is the restored Sistine Chapel ceiling a triumph or a travesty? All these questions are, in part, questions in materials science. The science behind art lies even deeper. Late in Monet's life, is his flaming red palette the product of his cataracts? Were van Eyck's masterpieces created using a concave mirror? Why does Mondrian's "Broadway Boogie Woogie", move when we look at it? As neurophysiology develops, it begins to provide a scientific understanding of our appreciation of art.

Michael Henchman was trained as a physical chemist in Cambridge, England (MA) and at Yale (Ph.D.). First at the University of Leeds and, since 1967, at Brandeis University, he has studied the thermodynamics and kinetics of ions in the gas phase, with particular relevance to interstellar molecules. Since 1990, funded by the Sloan Foundation, the National Science Foundation, the Dreyfus Foundation and the Department of Education, he has developed programs in Chemistry and Art to teach science to students in the Arts and the Humanities - together with summer schools for teachers wishing to do the same. Most recently, he is expanding the Chemistry and Art program to include Optics and Art, Medicine and Art, and Art and the Brain.

Directions to Crossroads Restaurant

(Thursday, April 18, 2002)

Dinner includes fresh tossed salad with house dressing, bread, entree, coffee/tea and dessert.

Entree Choices:  
- Prime Rib  $20.00  
- Baked Stuffed Shrimp  $20.00  
- Stuffed Chicken  $20.00  
Children’s menu:  
- Hamburger/ fries  $ 5.00  
- Chicken Fingers/ Fries  $ 5.00

Prices include tax and tip.

Please make your reservation by contacting Dr. Ali Banijamali by Thursday, April 11, 2001, at (203) 573-3220 or email ali_banijamali@cromptoncorp.com. Discounts available to high school/ elementary school teachers, retired or unemployed chemists, and students. Please leave your name, telephone number, choice of entree, and number of reservations. 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. Simply notify Dr. Banijamali so he can keep the count of number of attendees, and arrive at the restaurant around 8:00 p.m. when the lecture normally begins.

Merritt-Pkwy North: Exit 62 – Dixwell Ave., take a left, go straight until you cannot go any further to light at State Street; take right and on left hand side is Crossroads Restaurant.

Merritt-Pkwy South: Exit 62 – Whitney Ave, take a right at the 2nd light Dixwell Ave. Take another right until you cannot go anymore to light at State Street; take a right and on left hand side is Crossroads Restaurant.

91 North/South: Exit 10 (connector Rte 40) take 1st exit “1”, take a right at the end of the ramp, take right at the light (State Street); go under the underpass on left hand side is Crossroads Restaurant.

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SCIENCE FAIR JUDGES NEEDED

Anyone who might be interested in being a Connecticut State Science Fair judge for the American Chemical Society, New Haven Section Awards (one project selected each from 7th Grade Physical Science, 8th Grade Physical Science, and Senior Physical Science, which is all of High School grades) please contact Jim Kirby either by phone (203-582-8275) or e-mail (james.kirby@quinnipiac.edu) as soon as possible. The date for judging Special Awards is Wednesday, March 13. The time is listed as from 9:00 AM to 2:00 PM, but I'm hoping that we can keep it to the morning hours, if all goes well.
IN MEMORIUM

Floro "Don" Frulla

Don Frulla of Wallingford died in November after a short illness. He was a graduate of St. Michael's College in Vermont, and received a Master's Degree in Chemistry from Holy Cross College. Don was a veteran of World War II, having served in the U.S. Marine Corps. He began his career in chemistry at the Olin Mathieson Company in New Haven. He subsequently left Olin for a position as a research chemist with the Upjohn Company in North Haven, which later became Upjohn-Dow. He retired from Upjohn-Dow in 1990. For many years Don was one of the most active members of the New Haven Section. Because of his love of chemistry and the enjoyment of social interaction with fellow scientists, he was a regular attendee at Section meetings, Yale Chemistry Department seminars, and the Peter Leermaker's Symposium held annually at Wesleyan University. For many years Don served as Section Councilor, and was always willing to serve on the various committees that make the operation of the Section possible. A handbook of chemistry has been donated to the Wallingford Public Library in Don's memory.

Philip E. Rice

Philip Rice, 104, died in January. He received his bachelor's degree from Carnegie Institute of Technology and a chemical engineering degree from New York University. He had served in the U.S. Navy as a signal flagman aboard the USS Agamemnon. He began his career with the U.S. Rubber Company in NYC, and was subsequently transferred to Naugatuck, where he eventually became the factory manager of Uniroyal's Chemical Division. During World War II, when imports of natural rubber from the Far East stopped, the government and industry worked together in the development of synthetic rubber. Mr Rice was one of the participants on the team that succeeded in developing this much-needed material. Professionally, Philip was a former member of the American Chemical Society and the American Institute of Chemical Engineers. He retired from Naugatuck Chemical in 1959.

Kirkwood Award

The Yale Chemistry Department and the New Haven Section are pleased to announce the selection of Dr. Ad Bax, Chief, Section on Biophysical NMR Spectroscopy, Laboratory of Chemical Physics, National Institutes of Health, as the 2002 recipient of the Kirkwood Medal. Dr. Bax is being recognized for his use of advanced NMR techniques toward the study of proteins, particularly DNA. The Kirkwood Award, which is presented biennially, honors the late Professor John Gamble Kirkwood, former Sterling Professor of Chemistry and Chairman of the Chemistry Department at Yale. The Kirkwood Lecture and Banquet will be held on Friday, May 3rd. More information will be given in the next bulletin for those who would like to attend these functions.

Welcome:

Ali Banijamali, Program Chair
And
Andri Smith, Secretary

Thank you, Donna

Dr. Donna Griffen closes her tenure as Section Chair.

Section Officers 2002:

Section Chair: Dr. Kevin Jackson
Program Chair: Dr. Ali Banijamali
Treasurer: Dr. Irene Covey
Secretary: Dr. Andri Smith
Councilors: Bill Harned, Jennifer Chan
Alternate Councilors: Caroline Maselli, David Smudin
Winning Posters

Grade 9 - 12

CELEBRATING CHEMISTRY: THEN & NOW

Grades 3 - 5

Back Then vs. Right Now with Chemistry

Grades 6 - 8
Words from Your Editor...

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- A. Richard Smilo, Newsletter Editor New Haven Section ACS.
New Haven Section

VOLUME 19, NUMBER 1, March - April, 2002

April 18, 2002 – NEW HAVEN SECTION MEETING

Dr. Michael Henchman
Will speak on

The Science Behind Art

CHANGE OF VENUE For April Meeting
Fantasia of North Haven

May 15, 2002 – NEW HAVEN SECTION MEETING

Dr. Arthur B. Ellis
Will speak on

The Chemist as a Materials Scientist

Section News and Announcements

• NEW WEB SITE
Abstract: Science aspires to be objective whereas art is subjective. Given this divide, we need to remember that works of art are also material objects. Should dirty old Mona Lisa be cleaned and, if so, how? Is Rembrandt’s "Polish Rider" a fake? Is the restored Sistine Chapel ceiling a triumph or a travesty? All these questions are, in part, questions in materials science. The science behind art lies even deeper. Late in Monet's life, is his flaming red palette the product of his artistry or of his cataracts? Were van Eyck's masterpieces created using a concave mirror? Why does Mondrian's "Broadway Boogie Woogie", move when we look at it? As neurophysiology develops, it begins to provide a scientific understanding of our appreciation of art.

Directions to Fantasia


FROM Meriden and Hartford: 1-91 South to Exit 12. Right onto Route 5 (North). One mile on Right at 2nd traffic light.

FROM Route 15m From New Haven and South: Route 15 North (Wilbur Cross Parkway) to Exit 63. Take Right onto Route 22 (Clintonville Road), Left (North) onto Route 5 (Washington Avenue). 1-1/2 mile on Right past Fire Station and across from Pratt & Whitney.

FROM Meriden and Hartford (Route 15): Route 15 South (Wilber Cross Parkway) to Exit 63, Left off ramp then left (North) onto Route 22 (Clintonville Road) Left (North) onto Route 5 (Washington Avenue). 1-1/2 mile on Right past Fire Station and across from Pratt & Whitney.
From Points West: Follow I-84 East to Exit 26 (Rte 70). Follow Rte 70 toward Cheshire until the Rte 68 intersection. Turn Right onto Rte 68 and proceed approximately 1 mile to the restaurant on the left hand side.

(Dednesday, May 15, 2002)

Dinner includes fresh tossed salad with house dressing, bread, entree, coffee/tea and dessert.

<table>
<thead>
<tr>
<th>Entree Choices</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prime Rib au jus</td>
<td>$20.00</td>
</tr>
<tr>
<td>Chicken Parmigiana</td>
<td>$20.00</td>
</tr>
<tr>
<td>Baked Stuffed Shrimp</td>
<td>$20.00</td>
</tr>
</tbody>
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Prices include tax and tip.

Please make your reservation by contacting Dr. Ali Banijamali by Friday, May 10, 2002, at (203) 573-3220 or email to: ali_banijamali@cromptoncorp.com. A $5.00 discount is available to high school/elementary school teachers, retired or unemployed chemists, and students. Please leave your name, telephone number, choice of entree, and number of reservations. Cancellations must be made 24 hours prior to the meeting or you may be charged for dinner.

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**Abstract** Chemists have a unique opportunity to contribute to the development of materials science by preparing new compounds and by chemically controlling interfaces. These themes are illustrated using the mechanical, electrical, magnetic, and optical properties of metals, polymers, and semiconductors. Among the materials discussed are metal alloys that undergo phase changes that are used for shape-memory effects, semiconducting solid solutions that exhibit tunable luminescence, and fluids that can be controlled by electrical and magnetic fields. A variety of demonstrations linking the physical and chemical properties of materials to their synthesis, processing, structure, and composition will be presented.

**Biographical Sketch** Arthur B. Ellis received a B.S. degree in chemistry from Caltech in 1973 and a Ph.D. in 1977 from MIT, where he held a Hertz Fellowship. Ellis joined the Chemistry Department of the University of Wisconsin-Madison in 1977 and is currently Meloche-Bascom Professor. Ellis' research is focused on the electro-optical properties of semiconductors and their use in chemical sensor applications. He chairs and ad hoc committee that has created solid-state instructional materials for the chemistry curriculum, and in 1995, he served as chair of the Inorganic Division of the American Chemical Society. In 1997, Ellis was awarded the George C. Pimental Award in Chemical Education by the American Chemical Society.

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**Directions to the Townline Restaurant**

**From New Haven / Hamden:** Follow Rte 10 east to Cheshire. Follow Rte 70 to Rte 68 toward Prospect. The restaurant is approximately 1 mile from the intersection on the Left.

**From Points East:** Follow I-84 West to Exit 26 (Rte 70). Follow Rte 70 toward Cheshire until the Rte 68 intersection. Turn Right onto Rte 68 and proceed approximately 1 mile to the restaurant on the left hand side.

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**The Townline Restaurant**

Wednesday, May 15, 2002

Dr. Arthur B. Ellis

Will speak on

*The Chemist as Materials Scientist*
Kirkwood Award

The Yale Chemistry Department and the New Haven Section are pleased to announce the selection of Dr. Ad Bax, Chief, Section on Biophysical NMR Spectroscopy, Laboratory of Chemical Physics, National Institutes of Health, as the 2002 recipient of the Kirkwood Medal. Dr. Bax is being recognized for his use of advanced NMR techniques toward the study of proteins, particularly DNA. The Kirkwood Award, which is presented biennially, honors the late Professor John Gamble Kirkwood, former Sterling Professor of Chemistry and Chairman of the Chemistry Department at Yale. The Kirkwood Lecture and Banquet will be held on Friday, May 3rd. More information will be given in the next bulletin for those who would like to attend these functions.

Poster Winners:

The winning posters from the ACS National Chemistry Week Competition from the New Haven Section were to have been included in this bulletin. However, due to technical difficulties in configuring photographs of the posters so they could be duplicated; we cannot include them at this time.
Words from Your Editor ...

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- A. Richard Smilo, Newsletter Editor New Haven Section ACS.

DATED MATERIAL

New Haven Section Bulletin
A. Richard Smilo, Editor
Benson Road
Middlebury, CT 06749
New Haven Section

VOLUME 19, NUMBER 3, May, 2002

May 15, 2002 – NEW HAVEN SECTION MEETING

Dr. Arthur B. Ellis
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The Chemist as a Materials Scientist

Section News and Announcements

- NEW WEB SITE
- Kirkwood Award announced
- National Chemistry Week Winners
- Teacher award
- Science Fair Winners
Note: The Bulletin can now be seen on the Section’s NEW web site at URL: http://membership.acs.org/N/NewHaven

@ The Townline Restaurant; Wednesday, May 15, 2002

Dr. Arthur B. Ellis

Will speak on

The Chemist as Materials Scientist

The Townline Restaurant
280 Prospect Road
Cheshire, CT
(203) 758-3303

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

Abstract
Chemists have a unique opportunity to contribute to the development of materials science by preparing new compounds and by chemically controlling interfaces. These themes are illustrated using the mechanical, electrical, magnetic, and optical properties of metals, polymers, and semiconductors. Among the materials discussed are metal alloys that undergo phase changes that are used for shape-memory effects, semiconducting solid solutions that exhibit tunable luminescence, and fluids that can be controlled by electrical and magnetic fields. A variety of demonstrations linking the physical and chemical properties of materials to their synthesis, processing, structure, and composition will be presented.

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Kirkwood Award

SPECIAL MAY SECTION MEETING, FRIDAY, MAY 3, 2002

2002 KIRKWOOD AWARD LECTURE AND BANQUET

KIRKWOOD AWARD RECIPIENT

DR. AD BAX

LABORATORY OF CHEMICAL PHYSICS, N.I.H.

LOCATIONS

Kirkwood Lecture Banquet and Award Presentation
Coffee  3:30 PM  Cocktail Hour  6:00 PM
Lecture  4:00 PM  Dinner  7:00 PM
Room 110 (Lecture Hall)  President’s Room
Sterling Chemistry Laboratory  Woolsey Hall
Yale University  Corner of College and Grove Streets
225 Prospect Street  New Haven, CT
New Haven, CT

The Department of Chemistry of Yale University and the New Haven Section of the American Chemical Society have selected Dr. Ad Bax, Laboratory of Chemical Physics, National Institutes of Health, as the 2002 recipient of the Kirkwood Medal. Dr. Bax is being recognized for his research associated with the development and application of improved NMR methods for the study of macromolecular structure and dynamics. These improvements manifest themselves by providing additional constructional restraints for obtaining higher definition of macromolecular structure, facilitate the resonance assignment process, provide for better characterization of internal and overall macromolecular dynamics, and extend the molecular weight limit of systems that can be studied.

Dr. Bax was born in Zevenbergen, The Netherlands. In 1978 he received an "Ingenieurs degree" cum laude in Applied Physics from Delft University of Technology, The Netherlands. He remained at Delft, receiving his Ph.D. in Applied Physics in 1981. After receiving his Ph.D. he spent a year as a Post-Doctoral Associate in the Department of Chemistry at Colorado State University. In 1983 he moved to the Laboratory of Chemical Physics at the National Institutes of Health, where he advanced from Research Associate to his current position as Chief, Section on Biophysical NMR Spectroscopy.

Dr. Bax is author or co-author of approximately 300 publications. He is on the editorial boards of many prestigious journals, including: Current Organic Chemistry; Genes to Cells; and The Journal of Applied Magnetic Resonance. Several of the most recent honors and recognition he has received include: The 2001 Remsen Award, Maryland Chapter ACS, and the 2002 Hans Neurath Award of the Protein Society.

The title of the Kirkwood Lecture will be "Liquid Crystalline Media Offer New Opportunities in NMR Structure Determination".

Abstract

To date, bimolecular structure determination by NMR has been based almost exclusively on local parameters, such as interproton distances obtained from NOE measurements, and torsion angles derived from J couplings. In contrast, dipolar couplings measured in macromolecules that are weakly aligned with the magnetic field provide information on the orientation of individual internuclear vectors relative to the molecular alignment tensor. Next to restraining local geometry, they therefore also have an intrinsic global character and can constrain the relative orientation of parts of a structure that are not connected by NOEs. Applications of this technology include the study of curvature in short DNA oligomers, refinement and validation of structures or homology models determined in the absence of dipolar couplings, and ligand-receptor docking.

RESERVATIONS

No reservations are needed for attendance at the lecture. All local section ACS members not affiliated with Yale University, who are interested in attending the banquet and award presentation, can make reservations by contacting Dr. David Smudin by phone at (203) 393-2163 (days) or by e-mail at dave_smudin@cromptoncorp.com. All local section members affiliated with Yale University can make reservations through Lee Buss in the Chemistry Department Office. The deadline for reservations is Monday, April 29th.

Dr. Bax was born in Zevenbergen, The Netherlands. In 1978 he received an
National Chemistry Week Winners:

POSTERS:
2001 Poster Contest Winners

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<td>Wallingford, CT 06492</td>
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STUDENT: Amanda Rodgers
TEACHER / SCHOOL: Kathy Lembo
SAVINGS BOND AND T-SHIRT: 180 Cannner Street
New Haven, CT 06544

STUDENT: Leandra Brant
TEACHER / SCHOOL: Kelly White
SAVINGS BOND AND T-SHIRT: North Griffin-Daley
North Branford Intermediate Gr. 6
675 Foxon Road
North Branford, CT 06471

STUDENT: Jenny Lee
TEACHER / SCHOOL: Samantha Rivera
SAVINGS BOND AND T-SHIRT: Nancy Ryan
Mary T. Murphy School Gr 4
14 Brushy Plain Road
Branford, CT 06405

STUDENT: Stephen Weyel
TEACHER / SCHOOL: Sarah Greenblatt
SAVINGS BOND AND T-SHIRT: Anna Lombardo
St. Bernadette School Gr. 4
20 Burr Street
New Haven, CT 06512

STUDENT: Zachary Vaughn
TEACHER / SCHOOL: Kate Slavinski
SAVINGS BOND AND T-SHIRT: Debra Guyette
Lincoln Middle School Gr 8

STUDENT: Emma Hammond
TEACHER / SCHOOL: Helen Brechlin
SAVINGS BOND AND T-SHIRT: Barbara Kelley
Melissa Jones School Grade 3
181 Ledge Hill Road
Guilford, CT 06437

STUDENT: Kaitlin David
TEACHER / SCHOOL: Leigh Anna Kamin
SAVINGS BOND AND T-SHIRT: Nancy Ryan
Mary T. Murphy School Gr 4
14 Brushy Plain Road
Branford, CT 06405

STUDENT: Vishal Patel
TEACHER / SCHOOL: Joe Carlson IV
SAVINGS BOND AND T-SHIRT: Kathleen Lahey
Salem School Gr 5
124 Meadow Street
Naugatuck, CT 06770
### HIGH SCHOOL WINNERS:

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<tr>
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<tr>
<td>Meghan Connolly</td>
<td>Michelina Fazzino, Branford High School, 185 East Main Street, Branford, CT 06405</td>
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<td>Eric Bradley</td>
<td>Michelina Fazzino, Branford High School, 185 East Main Street, Branford, CT 06405</td>
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<tr>
<td>Jeremy Anderson</td>
<td>Nancy Graham, Hamden High School, 2040 Dixwell Avenue, Hamden, CT 06417</td>
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<td>Danny J. Fain</td>
<td>Nancy Graham, Hamden High School, 2040 Dixwell Avenue, Hamden, CT 06417</td>
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<td>Paul Hively</td>
<td>Nancy Graham, Hamden High School, 2040 Dixwell Avenue, Hamden, CT 06417</td>
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<td>Hari Yalamanchili</td>
<td>David Tremblay, West Haven High School, 1 Circle Street, West Haven, CT 06516</td>
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<tr>
<td>Michelle Sileo</td>
<td>David Tremblay, West Haven High School, 1 Circle Street, West Haven, CT 06516</td>
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<tr>
<td>Samuel Anderson</td>
<td>Nancy Graham, Hamden High School, 2040 Dixwell Avenue, Hamden, CT 06417</td>
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<tr>
<td>Chris Hayes</td>
<td>Michelina Fazzino, Branford High School, 185 East Main Street, Branford, CT 06405</td>
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<td>Chris Rucinski</td>
<td>Michelina Fazzino, Branford High School, 185 East Main Street, Branford, CT 06405</td>
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Congratulations to all the participants whether they placed or not from the New Haven Section of the American Chemical Society for a job well done.

### SCIENCE FAIR WINNERS:

#### CT State Science Fair Winners:

The winners of our ACS, New Haven Section Awards for the CT State Science Fair held on March 13 - 16, 2002 at Quinnipiac University are invited to attend and display their presentations during the social hour of the May section meeting. Those winners are:

- **Senior Physical Science ($200 US Savings Bond)** -- Miss Swati D. Deshmukh, "Organic Synthesis of Monomer Precursors for Piezoelectric Polymers";
- **8th Grade Physical Science ($100 US Savings Bond)** -- Miss Katie L. Davis, "Can We Afford to Ignore Corrosion?";
- **7th Grade Physical Science ($100 US Savings Bond)** -- Miss Lauren B. Spitz, "The Boiling Temperature of Salt Water vs. Sugar Water".

As chair of this committee, I would like to thank the volunteers who joined me for judging on Wednesday, March 13. Your help was greatly appreciated: Dr. Carol Fenn (Quinnipiac Univ.), Dr. Jim Kempf (Yale Univ.), Mr. Tom McGloin, Dr. Tom Reitz (Choate Rosemary Hall), Dr. Andre Smith (Quinnipiac Univ.), and Dr. Robert Snyder (Southern CT State Univ.).

Also, for anyone who did judging for the Science Fair awards, the CT State Science Fair is always grateful for your time and efforts.

Dr. James Kirby (Quinnipiac Univ.)
Words from Your Editor...

Please note the guidelines for want ads and situations-wanted to be put into the New Haven Section Bulletin. If you have any news of note for the section and want it in the section bulletin, contact me, the editor by email at smily4594@att.net - A. Richard Smilo, Newsletter Editor New Haven Section ACS.
New Haven Section

VOLUME 19, NUMBER 4, September - October, 2002

September 18, 2002 – NEW HAVEN SECTION MEETING

Dr. Michael P. Doyle
Will speak on

*Research as Chemical Education*

October 16, 2002 – NEW HAVEN SECTION MEETING

*Mr. David B. Frennesson*
Will speak on

*Discovery of a Novel Topoisomerase I Selective Agent with Broad Spectrum Antitumor Activity Against Preclinical Models.*

Section News and Announcements

- NEW WEB SITE
- Announcement: Call for 2003 Esselen Award Nominees.
- Kirkwood Award Committee
- 50 Year Recipients – OCTOBER MEETING
Dr. Michael P. Doyle

Will speak on

Research as Chemical Education

Southbury Hilton
1284 Strongstown Rd.
Southbury, CT
(203) 598-7600

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

Abstract: Research is the culminating educational experience for undergraduate students and a professionally rewarding experience for high school chemistry teachers. No other educational activity provides better preparation for logical inquiry, critical awareness of current events, and the rigor of independent activity. The end result of this venture may be an exciting breakthrough that extends our knowledge of nature, a leading discovery that contributes to the development of a new process or product, or merely the extension of chemical information. In any case, those who are involved in research develop an excitement for discovery and are better prepared for their future careers. They are in the mainstream of science. In this presentation we will describe programs and opportunities for the involvement of undergraduate students and high school teachers in chemical research. The benefits to the profession and to participating organizations will be presented and discussed.

Born and raised in Minneapolis, Minnesota, Michael P. Doyle received his B.S. degree from the College of St. Thomas and his Ph.D. from Iowa State University. He was a postdoctoral associate at the University of Illinois at Chicago before he began his academic career at Hope College in the Fall of 1968, and in 1984 he moved to Trinity University as the first D. R. Semmes Distinguished Professor of Chemistry. He is currently Vice President of Research Corporation, a foundation that supports basic research in astronomy, chemistry, and physics, and Professor of Chemistry at the University of Arizona. Dr. Doyle has received several national awards, including the Chemical Manufacturers Association Catalyst Award, the American Chemical Society Award for Research at Undergraduate Institutions, and the James Flack Norris Award for Outstanding Achievements in the Teaching of Chemistry, as well as the Paul Gassman Distinguished Service Award from the ACS Division of Organic Chemistry.

He was elected Doctor Honoraris Causa of the Russian Academy of Sciences, and he was the recipient of the Alexander von Humboldt Research Award for Senior U.S. Scientists. He is the co-author of two textbooks for organic chemistry, two monographs, including "Modern Catalytic Methods for Organic Synthesis with Diazo Compounds," and he was series editor for "Advances in Catalytic Processes." He and his students have co-authored more than 200 research publications. Dr. Doyle's current research interests include the design of chiral catalysts for highly enantioselective chemical transformations, the development of new synthetic methods involving metal carbenes, and macrocyclization reactions.

Directions to the Southbury Hilton

From Points West: Follow I-84 East to Exit 16. At the end of the ramp take a right onto Strongstown Road (Rte 188). The Hotel is about 0.5 miles on the right.

From Points West: Follow I-84 West to Exit 16. At the end of the exit ramp, turn right onto Strongstown Rd (Rte 188). The Hotel is about 0.25 miles on the right.

From Points South: Follow Rte 63 North to Rte 8 North. Follow Rte 8 North to I-84 West. Follow the Directions for Points East. Alternate: Take Rte 8 North to Rte 67 West. Follow Rte 67 West to Southford Falls. At Southford Falls, take Rte 188 East (Strongstown Road). The Hotel is about 5 miles from the intersection, on the right.

Note: The Bulletin can now be seen on the Section's NEW web site at URL: http://membership.acs.org/N/NewHaven
Mr. David B. Frenneson

Will speak on

*Discovery of a Novel Topoisomerase I Selective Agent with Broad Spectrum Antitumor Activity Against Preclinical Models.*

The Yankee Silversmith Inn
1033 North Colony Rd
Wallingford, CT
(203) 269-5444

Abstract BMS 250749 is the preclinical lead from a novel class of indolocarbazoles that are potent inhibitors of Topoisomerase I (Topo I), a nuclear enzyme that stabilizes intermediates formed between the enzyme and DNA, thus inducing single-strand breaks in DNA in vitro and in cells. This analog showed a broad spectrum of activity against a number of preclinical tumor models including lung, colon, ovarian, and prostate carcinomas. The chemistry, mechanism of action and the antitumor activity profile of this compound will be the subject of this presentation.

Biographical Sketch David B. Frenneson received Bachelor's degree in Bio-Chemistry in 1986 from Skidmore College, Saratoga Springs, NY. 1986-1991, Chemist - Crop Protection Synthesis Group of Uniroyal Chemical Company, Inc. under the direction of Dr. Richard J. Strunk. 1991-1992, Development Chemist - Crop Protection Chemistry Section, Environmental Fate Group of Uniroyal Chemical Company, Inc. under the direction of Dr. C. Kenneth White. 1992-Present, Research Scientist I in the Anti-Tumor / Anti-Infective Chemistry Departments of Bristol-Myers Squibb Pharmaceutical Research Institute under the direction of Dr. Mark G. Saulnier. Co-author on two papers and five patents. 1987 - Present, Member of the American Chemical Society, Division of Medicinal and Organic Chemistry. 1990 - Program Chair of the New Haven Section of the American Chemical Society. 1991 - Chair of the New Haven Section of the American Chemical Society.

Directions to the Yankee Silversmith Inn

Traveling Nor or South I-95 North (From Rhode Island or New York): I-95 (North or South) to I-91 North, Exit 15 (Durham/Yalesville). Left off exit onto Rt. 68W. Proceed 2.2 miles (6 lights) to Rt. 68 Overpass. (Rt. 5 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.

Traveling South I-91: Exit 15, take right off exit onto 68W. Proceed 2 miles (5 lights) to Rt. 68 overpass. (Rt. 5 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.

2002 50 year members to be feted at the October Meeting:

The following members of the New Haven Section of the American Chemical Society have been a part of the Society for 50 years:


Please join us at the October meeting to help celebrate their accomplishment.
• Local Section members who are seeking employment opportunities may place a "Situation Wanted" ad in an upcoming issue of this newsletter at no cost. Ads should be constructed in a format similar to the "Situation Wanted" listings, which appear in C&E NEWS. Submit a copy of your ad directly to smily4594@worldnet.att.net. We encourage all section members to read these ads and to provide networking support to assist in identifying potential employment opportunities.

• Is your resume up to date? An ACS booklet entitled "Tips on Resume Preparation" is available from your Local Section Career Program Coordinator. For information contact C. Fenn at carol.fenn@quinnipiac.edu or call me at (203) 582-8254.

The Ad Guidelines are as follows: Situations-wanted by Section member - No Charge. Non-members $ 20 for four lines. Want Ads are $ 40 for a 4-line ad and for a "full-page (4 x 8 inch)" ad, the fee is $75.

Kirkwood Award Committee

The members of the local section who were involved with the selection of the Kirkwood Awardee were Dr. Aspet "Ozzie" Merijanian, Dr. Robert G. Davis, and Dr. David Smudin. Others were Professors Andrew Hamilton and Kurt Zilm, and their selection committee at the Yale Chemistry Department. As usual, a fine job done by all.
Words from Your Editor ...

Please note the guidelines for want ads and situations-wanted to be put into the New Haven Section Bulletin. If you have any news of note for the section and want it in the section bulletin, contact me, the editor by email at smily4594@worldnet.att.net - A. Richard Smilo, Newsletter Editor New Haven Section ACS.
March 11, 2003 – NEW HAVEN SECTION MEETING

A joint meeting cosponsored by the New Haven Section of the ACS and the AIChE Yankee Clippers

Dr. Milind S. Deshpande

will speak on

Discovery of Modern Medicines

Section News and Announcements

• April meeting – Thursday April 24
  tentative location - Fantasia in North Haven
• May meeting – Tuesday May 24
  tentative location – Southbury Hilton
• Chair’s Message
• Photos
The Bulletin is also posted on the Section's web site at http://membership.acs.org/N/NewHaven

March Section Meeting

@ 95 Gathering Place
Tuesday March 11, 2003

Dr. Milind S. Deshpande

will speak on

Discovery of Modern Medicines

Abstract: In the past century, discovery of new medicines have made significant contributions to extend and enhance human life. Scientific advancements that form the basis of these contributions span diverse disciplines such as molecular biology; genomics; and chemistry. Twenty-first century drug discovery integrates these disciplines to address unmet medical needs. The excitement and challenges in the discovery of modern medicines will be illustrated with the example of drugs that treat HIV infection.

Brief Biographical Sketch: Milind S. Deshpande, PhD. Vice President, Discovery; Achillion Pharmaceuticals, New Haven, Connecticut.

Dr. Deshpande has over 15 years of experience working in infectious diseases. Prior to joining Achillion, Dr. Deshpande was Associate Director of Lead Discovery and Early Discovery Chemistry at the Pharmaceutical Research Institute of Bristol-Myers Squibb, where he managed the identification of new clinical candidates to treat infectious and neurological diseases. He also played a key role in establishing the high throughput synthesis infrastructure at Bristol-Myers Squibb, has authored numerous papers, and is a frequently invited speaker at industry conferences on this topic. Prior to his time at Bristol-Myers Squibb, he held a faculty position at Boston University Medical School, where he conducted research on HIV protease and on biological systems involved in regulating blood pressure and inflammation. Dr. Deshpande received his Ph.D. in Organic Chemistry from Ohio University, following his undergraduate education in India.

The March meeting is a joint meeting cosponsored by the New Haven Section of the ACS and the AIChE Yankee Clippers.

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Directions to 95 Gathering Place

From the Merritt Pkwy: Exit 66 – Take a left off Parkway. Go about 1.5 miles. Restaurant is on the right (across from Wallingford Toyota).

From 91 North/South: Exit 13 - Take a right at end of ramp. Travel 5-6 miles. After you reach Super Kmart, restaurant is 1/8 mile on left (across from Wallingford Toyota).

From Waterbury: Take I-84 to I-691 to Route 15 South (Merritt Parkway). Follow Merritt Parkway instructions.

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2003 Election Results

The election of Officers for 2003 was again carried out with great success using stamped post cards for the ballots. Over one hundred ballots were returned. The results for the four offices under consideration were:

Chair-elect: Michael Gelbin
Treasurer: Irene Covey
Councilor: William Harned
Alternate Councilor: David Smudin

Congratulations to the winners, and thanks to all who participated in the voting.
Chair’s Message

Greetings Dear New Haven Section Chemist Peers:

It is indeed an honor to serve as the Chairman of the New Haven Section of the American Chemical Society for 2003. I look forward to an exciting and productive year with your active participation. With your help and support, the Executive Board of Directors and I are planning several unique activities for 2003. The Section will once again be involved in several enrichment and community outreach activities, including Connecticut Science Fair, Project Seed, the Chemistry Olympiad, Kids in Chemistry, and National Chemistry Week activities. We need your help and participation in organizing all of these activities.

The Section has made great strides at obtaining a good mix of speakers for this year’s programs; we have tried to have the meetings at different locations so as to broaden our member coverage. We are trying to curtail the cost of the dinners in the hope that more of our members will consider attending both the lectures and the preceding social hours.

The list of the Committee memberships including their Chairs is available on the Section’s web site under the Officers Section. You will find the Committee Chairs eager to hear from the Section members, and most of the committees do need new members. One crucial committee for which the Section desperately needs assistance is with National Chemistry Week (NCW). National Chemistry Week encourages young people to consider science as a career, as well as to provide an outreach to the community dispelling some of the fears that exist about chemistry. This year’s NCW theme is “Earth’s Atmosphere and Beyond.” If you are interested in helping out with NCW activities, please contact me as soon as possible at my place of work at 203-573-3220, or by e-mail at ali_banijamali@cromptoncorp.com.

As always, it is important to emphasize that success of the New Haven Section activities depends on you, the members. When your ACS membership renewal notice arrives, please do not forget to check the box for payment of New Haven Local Section Dues. While Local Section dues are a voluntary contribution - they are not required to maintain Section membership - they are however, crucially important to the well being of the New Haven Section. Your $4.00 Voluntary Dues directly funds events and services, including the prestigious Kirkwood Award, Chamberland Award, Connecticut Science Fair, and other excellent programs. It is your support and participation that makes it possible for the Section to have these activities.

Dr. Kevin Jackson, the Past Chair, and his Board have provided excellent leadership for the New Haven Section during 2002 and Dr. Michael Gelbin will be Chair-Elect for 2003. Together with the other members of the Executive Board, I hope that we can make the New Haven Section of the American Chemical Society a section of which you will be proud. I look forward to seeing all of you at one of the Section functions this year. Dr. Ali Banijamali, 2003 Chair, ACS - New Haven Section

Employment News

Local Section members who are seeking employment opportunities may place a "Situation Wanted" ad in an upcoming issue of this newsletter at no cost. Ads should be constructed in a format similar to the "Situation Wanted" listings, which appear in C&E NEWS. Submit a copy of your ad by e-mail directly to the editor at billharned@hotmail.com. Section members are encouraged to read these ads and to provide networking support to assist in identifying potential employment opportunities for those persons looking for employment.

Is your resume up to date? An ACS booklet entitled “Tips on Resume Preparation” is available from your Local Section Career Program Coordinator. For information contact Carol Fenn at carol.fenn@quinnipiac.edu.

Revised Career Services Publications Now Available

Four popular, free ACS Department of Career Services publications have been updated recently and are now available. They include:


- **The Interview Handbook**. This publication discusses the various techniques and skills needed for a successful interview. This updated edition discusses how cultural “fit” is an important criterion in how chemists are hired by U.S employers.

- **Tips on Resume Preparation**. Readers of this text will find a discussion of the most successful types of resumes with samples of each. The new edition includes tips on marketing your resume in the electronic market.

- **Targeting the Job Market**. This publication focuses on several components of targeting the job market: personal assessment, identifying market trends, credentials, conducting research, and networking.

All four publications can be downloaded from [http://chemistry.org/careers](http://chemistry.org/careers) or by requesting them from ACS Office of Society Services at help@acs.org.

The Ad Guidelines are as follows: Situations-wanted by Section member - No Charge. Non-members $20 for four lines. General ads are $40 for a 4-line ad or $75 for a full-page (4 x 8 inch).
Service Awards Presented to Outgoing Officers

Dr. Ali Banijamali (right), New Haven Section Chair, presents distinguished service awards to Dr. Kevin Jackson (center) for serving as the 2002 Chair and to Mr. Richard Smilo (left) for his years as the Section Bulletin Editor.

ACS Section Awards for CT State Science Fair – Judges Needed

The New Haven Section sponsors several Connecticut State Science Fair awards. The Science Fair is held annually at Quinnipiac University in Hamden. Judges are needed to help determine our awards for 7th Grade, 8th Grade, and Senior High awards. If you are interested in judging and are available from 10:00 AM to 1:00 PM on Thursday, March 13, please contact Dr. James Kirby at Quinnipiac University (203-582-8275 or james.kirby@quinnipiac.edu). Judging may not require the full three hours.

Last year the Section awarded $100 in U.S. savings bonds to 7th and to 8th grade winners and $200 in U.S. savings bonds to the high school winner. In addition, the teachers of the winners were given subscriptions to the Journal of Chemical Education. Similar awards will be given this year.

ACS Member Benefit For You!!

The American Chemical Society announces its newest benefit for you the member. We are excited that we can offer you discounts on your next stay at any of the following hotels; Ameri-Host, Days Inn, Knights Inn, Ramada Inn, Travelodge, Villager and Wingate Hotels. Take a minute and call 1-877-670-7088 to make your reservation, or call the hotel directly, mention the Society’s discount #62871 and receive up to 20 percent off your next visit at any of the previously mentioned hotels.

Being a member of the American Chemical Society means you benefit. Allied Van Lines has partnered with ACS to give you, the member, discounts on your next move. Allied offers reduced cost for moving services, relocation discounts for family members and quality service for local, interstate and international relocation and storage needs. Call your designated Bayshore point of contact at 1-800-874-6683 and ask for an ACS Coordinator.
Words from Your Editor ...

Please note the guidelines for ‘general ads’ and ‘situations wanted’ to be put into the New Haven Section Bulletin. This is my first bulletin as your new editor. I am interested in your suggestions for enhancements and improvements to the Section Bulletin. Please do not hesitate to contact me with your ideas. - William Harned, Newsletter Editor
April 24, 2003 – NEW HAVEN SECTION MEETING
Antonio Ciccone
will present
"Chemistry Keeps Us Clean"

* * *

May 20, 2003 – NEW HAVEN SECTION MEETING
(Joint meeting with the AIChe Yankee Clippers)
Sr. M. V. Orna, Professor of Chemistry
will present
“Our Chemical Heritage: Its Impact on Our Daily Lives”

* * *

Section News and Announcements
• Connecticut State Science Fair winners
• National Chemistry Week winners
• Chamberland Award announcement
• Words from the Chair
April Section Meeting

Fantasia Restaurant
Thursday April 24, 2003

Antonio Ciccone

will present

Chemistry Keeps Us Clean

Fantasia  Social Hour:  5:30 p.m.
404 Washington Avenue  Dinner:  6:15 p.m.
North Haven, CT  Lecture:  7:15 p.m.
(203) 239-3109

Abstract: The talk highlights a few examples of how chemistry helps keep the environment clean. One topic is the use of gas scrubbers in chemical processes. A scrubber disposes of toxic and hazardous gases, such as the by-products of chemical reactions.

A second topic is the chemistry of catalytic converters for automobiles. The combustion of hydrocarbon fuel in the combustion engine of a car affords numerous gaseous pollutants. The lecture will discuss the chemistry involved in "neutralizing" these products.

Lastly, the talk will address electrostatic precipitators. These are devices used in smokestacks for immobilizing polluting flue gases.


Antonio Ciccone graduated cum laude from Fairfield University, Fairfield, CT in 1978, with a BS in Chemistry. In 1980, he received his MS in Analytical Chemistry from Seton Hall University, South Orange, NJ. He worked for American Cyanamid, Stamford, CT, from 1980 to 1992 as Analytical Chemist and Hazard Evaluation Laboratory Team Leader where he published several papers and was an active member of a Discovery Group. He is also a contributor and owner of several patented procedures. Mr. Ciccone received his Education Certification in 1992 from Southern Connecticut State University and taught at West Haven High until 1993. He has been teaching Chemistry and Ecology at Seymour High School since 1993. He received Sixth Year Degree from Southern Connecticut State University in 1999 and has been awarded the Governor’s Green Circle Award three times for valuable contributions to a better and cleaner environment and to the education of our youth.

Directions to Fantasia

FROM New Haven and South via I-91: I-95 to I-91 to Exit 12. Go Right onto Route 5 (North). One mile on Right at 2nd traffic light.

FROM New Haven and South via Route 15: Route 15 North (Wilbur Cross Parkway) to Exit 63. Go Right onto Route 22 (Clintonville Road), then Left (North) onto Route 5 (Washington Avenue). 1½ miles on Right past Fire Station and across from Pratt & Whitney.

FROM Meriden and Hartford via I-91: I-91 South to Exit 12. Go Right onto Route 5 (North). One mile on Right at 2nd traffic light.

FROM Meriden and Hartford via Route 15: Route 15 South (Wilber Cross Parkway) to Exit 63. Left off ramp then left (North) onto Route 22 (Clintonville Road), then Left (North onto Route 5 (Washington Avenue). 1½ mile on Right past Fire Station and across from Pratt & Whitney.

Fantasia -Thursday April 24, 2003

All entrees include tossed green salad, fresh bread and butter, penne marinara, oven roasted potato, seasonal mix vegetables, vanilla ice cream, and coffee, tea or decaf.

Entree Choices:  Sliced top round beef au jus $24.00  Scrod Fantasia $24.00  Chicken Francese $24.00

Price includes tax and tip

Please make your reservation by contacting Ms. Caroline Maselli by Friday, April 21, 2003, at (203) 573-2039 or email to: caroline_maselli@cromptoncorp.com. High school and elementary school teachers (K-12), retired or unemployed chemists and students will be charged only $19 for the dinner. Please leave your name, telephone number, choice of entree, and number of reservations. 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 Ms. Maselli so she can keep the count of number of attendees, and arrive at the restaurant around 7:15 PM when the lecture normally begins.

Chamberland award

The Chamberland Award Committee of the New Haven Section is pleased to announce the selection of the following members who will receive the Section’s Maurice R. Chamberland Award at a future meeting. Dr. Robert A. Gregg, Uniroyal (Retired), has been selected to receive the award for his work in polymer chemistry. Dr. Ali Banijamali, Crompton Corp., will be recognized for his work in metabolism. More information will appear in future bulletins.
May Section Meeting
Joint meeting cosponsored by the New Haven Section of the ACS and the AIChE Yankee Clippers

The Southbury Hilton
Tuesday May 20, 2003

Sr. M. V. Orna, Professor of Chemistry
will present

Our Chemical Heritage: Its Impact on Our Daily Lives

The Southbury Hilton
1284 Strongtown Road
Southbury, CT 06488
(203) 598-7600

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

Abstract: Our Chemical Heritage: Its Impact on Our Daily Lives. What do prostate cancer, river blindness, and the Shroud of Turin have in common? They had media attention, they affected millions of people's lives in some way, and they have been examined by chemical analysis. Using these and other well-known examples, the talk will demonstrate how the modern practice of chemistry can impact our lives in such areas as health, art, religion, and archaeology. All are part of our chemical heritage.

Brief Biographical Sketch: Sister Mary Virginia Orna, O.S.U. (Order of Saint Ursula) is professor of chemistry at the College of New Rochelle and Editor-at-Large, Chemical Heritage magazine. She has lectured and published widely in the areas of color chemistry and archaeological chemistry. She is active in several divisions of the American Chemical Society, having served as chair of the History and Chemical Education Divisions. She is a recipient of the following major awards: the 1984 CMA Catalyst Award for excellence in college chemistry teaching, the 1989 New York State Professor of the Year and National Gold Medallist, the 1989 Merck Innovation Award, the 1996 ACS Visiting Scientist Award, the 1996 James Flack Norris Award, the 1999 ACS George C. Pimentel Award in Chemical Education, and the 2001 New England Association of Chemistry Teachers J. A. Timm Award for excellence in chemistry teaching. She is presently president of ChemSource, Inc., a major effort in chemistry teacher preparation and enhancement funded by the National Science Foundation. She was a Fulbright Fellow in Israel (1994-95), where she lectured at The Hebrew University, The Weizmann Institute of Science, and Shenkar College of Textile Technology.

The Southbury Hilton - Tuesday May 20, 2003

All entrees include seasonal melon with prosciutto; radicchio vinaigrette; chef’s choice of complimenting starch & vegetable; rolls and bread with sweet butter; mountain berry cream flan; coffee, tea, decaf or hot chocolate.

Entree choices:
- Chicken Southbury, chicken breast topped with prosciutto $30.00
- Grilled Atlantic salmon, with lemon pepper butter wine sauce $30.00
- Ravioli, filled with portabella mushrooms $30.00

Price includes tax and tip.

Please make your reservation by contacting Dr. Michael Gelbin by Friday, May 16, 2003, at (203) 573-2646 or email to: michael_gelbin@cromptoncorp.com. High school and elementary school teachers (K-12), retired or unemployed chemists and students will be charged only $25 for the dinner. Please leave your name, telephone number, choice of entree, and number of reservations. 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 Dr. Gelbin so he can keep the count of number of attendees, and arrive at the restaurant around 8:00 PM when the lecture normally begins.

Situations Wanted

POLYMER CHEMIST, Ph.D, with 22 years experience and awards in electronic and industrial coatings, seeks senior scientist or manager position. Willing to start at BS level salary to prove my worth. (203-575-9170 or JJL11@aol.com)

COMPUTATIONAL GEOCHEMIST expecting PhD from Yale University in May 2003. Seeking position in the pharmaceutical industry or chemical informatics field. Extensive research on stable isotope reactions using G98 and Accelrys Cerius2. Hands on programming skills in C, C++, Java, PERL, HTML, UNIX/Linux and SQL.
Email: mihali.felipe@yale.edu

The Ad Guidelines are as follows: Situations-wanted by 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).
Greetings Dear New Haven Section Chemist Peers:
As chairman of the New Haven ACS Section, I am soliciting your help in our efforts to enhance networking opportunities and increase attendance at the local section meetings. As part of this strategy, during the social hour we will encourage members, especially students, to display a poster. The poster can act as a catalyst for initiating communication with other ACS members who are present. Students presenting the posters should: (1) gain additional exposure; (2) get feedback and suggestions; (3) find mentors; and (4) meet potential local employers. The hope is that the posters will help start discussion among a number of attendees and will significantly lower the barrier to networking. The poster need not contain the latest findings since its primary goal is to initiate communication. Hence, any poster presented previously at some conference or meeting will be acceptable. In order to promote presentation of posters during the social hour, the cost of dinner for student presenters will be waived, provided such intent has been communicated during the RSVP for the meeting.

I am hoping that you will encourage any students or co-workers that you advise/mentor/ influence to attend local section meetings and present posters. In addition, if you can share some information, please consider putting up a poster yourself during the social hour before the section meetings. In the current fast-paced environment, we often have difficulty finding time to keep track of the accomplishments of our peers in the community. Attending the local section meetings and the informal poster session will help us appreciate the research and contributions of our peers. Furthermore, posters from members in industry will provide examples of industrial research for students attending the meeting. Our goal is to increase active participation by all members, including those from industry, government, and academia.

I hope I can count on your support to help improve the effectiveness of the New Haven ACS section meetings. The opportunities for presenting posters will be provided at all regular meetings. If you would like to present a poster, please contact the Program Chair Dr. Michael Gelbin at Michael_gelbin@cromptoncorp.com. Additional information on poster presentations is available at the section’s website http://membership.acs.org/N/NewHaven.

Dr. Ali Banijamali, Chair, ACS- New Haven Section

Connecticut State Science Fair Winners

Congratulations to the winners of the New Haven Section’s Science Fair awards: High School - Raj G. Ranade, East Lyme High School, Mathematical Model for a Simulation of a Physical Process”; 8th Grade - Timothy P. Murphy, St. Timothy School, “Conductivity of Everyday Materials”; 7th Grade - Laura C. Rafka, Mystic Middle School, A Semiquantitative Analysis of Hard Water”. The Section thanks all who helped judge.

New Haven ACS National Chemistry Week Winners

Winners in the National Chemistry Week contests have been selected. The winners, their teachers and their school are presented below. The winners have been invited to the April 24th Section meeting at Fantasia restaurant to receive their awards. Congratulations to all the winners and their teachers.

<table>
<thead>
<tr>
<th>Winner</th>
<th>Teacher</th>
<th>School</th>
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</thead>
<tbody>
<tr>
<td>SAVINGS BOND AND T-SHIRT</td>
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<tr>
<td>Jamie Silverman</td>
<td>Thomas Santoro</td>
<td>Pomperaug School Gr. 4, Southbury</td>
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<tr>
<td>Katie Moore</td>
<td>Natalie Chamberlain</td>
<td>Lincoln Middle School Gr. 7, Meriden</td>
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<tr>
<td>William Gregory</td>
<td>Janet Irving</td>
<td>The Country School Gr. 3, Madison</td>
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<td>Desaray Peterson</td>
<td>Kathleen Griffin-Daley</td>
<td>No. Branford Inter. Gr. 6, N. Branford</td>
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<tr>
<td>Mariana Vasquez-Crede</td>
<td>Kathleen Griffin-Daley</td>
<td>No. Branford Inter. Gr. 6, N. Branford</td>
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<tr>
<td>Nicole Ranciato</td>
<td>Kathleen Griffin-Daley</td>
<td>No. Branford Inter. Gr. 6, N. Branford</td>
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| T-SHIRT                     |                        |                               |
| Whitney Penn                | Janet Irving           | The Country School Gr. 3, Madison |
| Patrick Carter              | Natalie Chamberlain    | Lincoln Middle School Gr. 7, Meriden |
| Elizabeth Chan              | Thomas Santoro         | Pomperaug School Gr. 4, Southbury |
| Nicole Bouchard             | Kathleen Griffin-Daley | N. Branford Inter. Gr. 6, Lincoln Middle School, Meriden |
| Michael Fritz               | Brenda Pilletere       | Holy Trinity School Gr. 6, Wallingford |

2002 High School Contest Winners

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<tr>
<th>Winner</th>
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<tr>
<td>SAVINGS BOND AND T-SHIRT</td>
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<tr>
<td>Joseph Cullen</td>
<td>Barbara Marroquin</td>
<td>Horace Wilcox RVTS, Meriden</td>
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<tr>
<td>Kerrie Eagles</td>
<td>David Tremblay</td>
<td>West Haven HS, West Haven</td>
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<tr>
<td>Jeffrey Butcher</td>
<td>Nancy Graham</td>
<td>Hamden HS, Hamden</td>
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<tr>
<td>Steven Maresca</td>
<td>David Tremblay</td>
<td>West Haven HS, West Haven</td>
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<tr>
<td>William Birks</td>
<td>Barbara Marroquin</td>
<td>Horace Wilcox RVTS, Meriden</td>
</tr>
<tr>
<td>Jeffrey Sima</td>
<td>Barbara Marroquin</td>
<td>Horace Wilcox RVTS, Meriden</td>
</tr>
<tr>
<td>Diana Calvert</td>
<td>Joyce Harned</td>
<td>HS in the Community, New Haven</td>
</tr>
<tr>
<td>Eva Bialecki</td>
<td>Joyce Harned</td>
<td>HS in the Community, New Haven</td>
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2002 Poster Contest Winners

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<th>Winner</th>
<th>Teacher</th>
<th>School</th>
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<tbody>
<tr>
<td>SAVINGS BOND AND T-SHIRT</td>
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<tr>
<td>Lucy Chadderton</td>
<td>Janet Irving</td>
<td>The Country School Gr 2, Madison</td>
</tr>
<tr>
<td>Ella Borkowski</td>
<td>Nancy Ryan</td>
<td>Mary T. Murphy School Gr 4, Branford</td>
</tr>
<tr>
<td>Samantha Gibbs</td>
<td>Natalie Chamberlain</td>
<td>Lincoln Middle School Gr. 7, Meriden</td>
</tr>
<tr>
<td>Gene Libow</td>
<td>David Tremblay</td>
<td>West Haven HS, West Haven</td>
</tr>
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| T-SHIRT HONORABLE MENTION   |                        |                               |
| Peter Burdige               | Janet Irving           | The Country School Gr 2, Madison |
| Clara Pinchbeck             | Janet Irving           | The Country School Gr 1, Madison |
| Erica Lynn Nicolas          | Nancy Ryan             | Mary T. Murphy School Gr 4, Branford |
| Tory Guarino                | Nancy Ryan             | Mary T. Murphy School Gr 4, Branford |
| Kristen Prescott-Ezickson   | Natalie Chamberlain    | Lincoln Middle School Gr. 7, Meriden |
| Arthur Dutra                | Mrs. Worthy            | T. Edison Magnet Middle, Gr. 8, Meriden |
| Anna Hine                   | David Tremblay         | West Haven HS, West Haven     |
| Allison Baylis              | David Tremblay         | West Haven HS, West Haven     |
Words from Your Editor ...

Please note the guidelines for ‘want ads’ and ‘situations wanted’ to be put into the New Haven Section Bulletin. The next two meetings include student award presentations to local area students. Join us in congratulating these future scientists. - William Harned, Newsletter Editor

The Bulletin is also posted on the Section's web site at http://membership.acs.org/N/NewHaven
September 29, 2003 – NEW HAVEN SECTION MEETING

Dr. Michael Cann
will present
"Pollution Prevention: A Paradigm Addressed Through Green Chemistry"

***

October 23, 2003 – NEW HAVEN SECTION MEETING

Dr. Judith Herzfeld
will present
“Crowding Induced Order: From Liquid Crystals To Cell Biology"

***

Section News and Announcements

• Call for Nominations
• National Chemistry Week
• Employment Aids
• New ACS Websites
• Hermann Kolbe Biography
September Section Meeting

Jesse Camille’s Restaurant
Monday September 29, 2003

Michael Cann

will present

"Pollution Prevention:
A Paradigm Addressed Through Green Chemistry"

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

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

Abstract: This presentation begins with a conversation on the flawed practice of controlling the risk due to toxic substances by controlling our exposure to these chemicals. Attention is then turned to controlling the same risk by preventing the use and production of hazardous substances, which is at the heart of green chemistry. The Twelve Principals of Green Chemistry are introduced and specific examples of green chemistry and their environmental benefits are discussed.

Brief Biographical Sketch: Michael Cann was born and raised in the Saratoga region of upstate NY and attended Marist College where he earned his BA in chemistry in 1969. Mike received his MA and PhD in organic chemistry from SUNY Stony Brook in 1972 and 1973. He was a post-doctoral fellow at the University of Utah (1973-74), and a lecturer at the University of Colorado-Denver (1974-75). Since 1975 he has been a faculty member at the University of Scranton. He is also the co-director of the environmental science program and the director of medical technology. His areas of interest encompass nitrenium ions, nitrogen heterocycles and green chemistry. His interests in green chemistry consist of microwave assisted organic reactions, room temperature ionic liquids, and green chemistry education. He has taught a number of courses including general chemistry, organic chemistry, environmental chemistry, chemical literature and writing, chemistry seminar, topics in environmental science, internship in environmental science and graduate courses in mechanistic and structural organic chemistry.

Directions to Jesse Camille’s Restaurant

FROM New Haven: Whalley Av (Rt 63) north through Woodbridge and Bethany (Amity Rd). Continue through Naugatuck 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. Left at 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.

Jesse Camille’s Restaurant -Monday September 29, 2003

All entrees include a fresh garden salad, penne pasta with marinara sauce, gourmet ice cream dessert, and coffee or tea.

Entree Choices:
Veal medallions Marsala with mushrooms $23.00
Baked stuffed shrimp $23.00
Eggplant Rollatine over pasta $23.00
Chicken Cordon Bleu $23.00

Prices include tax and tip

Please make your reservation by contacting Dr. Michael Gelbin by Friday, September 26, 2003, at (203) 573-2646 or email to: michael_gelbin@cromptoncorp.com. High school and elementary school teachers (K-12), retired or unemployed chemists and students will be charged only $19 for the dinner. Please leave your name, telephone number, choice of entree, and number of reservations. 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 Dr. Gelbin so he can keep the count of number of attendees, and arrive at the restaurant by 8:00 PM when the lecture normally begins.

Call for Nominations

It is once again time to elect new officers for the 2004 calendar year. Any member in good standing in the New Haven Section is eligible to run for any vacant position. The positions open for 2004 are: Chair-elect, Councilor and Secretary. The Chair-elect sets up the schedule of meetings for the year and becomes the Chair the following year. A Councilor is the liaison between national headquarters and the Section and attends Council meetings held at National Meetings (Travel expenses are reimbursed by ACS.). The Secretary keeps minutes of Executive Committee meetings and handles Section correspondence. All are members of the Section Executive Committee, which determines the course your Local Section takes in the near future.

If you are interested in running for an office or know of someone who might be interested, please contact Dr. Gerald Putterman at 203 573-3073 or send an e-mail to him at gerry_putterman@cromptoncorp.com. Committee positions are also available.
October Section Meeting

95 Gathering Place
Thursday October 23, 2003

Dr. Judith Herzfeld

will present

Crowding Induced Order: From Liquid Crystals to Cell Biology

95 Gathering Place
865 No. Colony Road
Wallingford, CT 06492
(203) 265-1552

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

Abstract: Solution non-ideality is more commonly regarded as an unpleasant fact of life than as a source of interesting phenomenology. Usually represented by simple activity coefficients overlaid on ideal descriptions, non-ideality is generally seen as quantitatively important but qualitatively insignificant. This seminar will take the opposite point of view, focusing on novel structural features and physical properties that arise from simple steric interactions between solutes in systems ranging from simple binary solutions to complex biological solutions. In the latter, the bundling of cytoskeletal proteins is shown to be driven simply by their excluded volume and the roles of cross-linking and capping proteins are necessarily reassessed.

Brief Biographical Sketch: Judith Herzfeld is Professor of Biophysical Chemistry at Brandeis University. Her research group uses solid state NMR to study microbial proteins involved in light-driven ion-transport and gas vesicle formation, and statistical thermodynamics to study spontaneous order in crowded solutions including self-assembling systems found in biological cells. Professor Herzfeld is also interested in the social implications of neuro-determinism and in methods for improving chemical education. Initially attracted to science by the post-Sputnik science programs of the New York City public schools, Professor Herzfeld received her A.B. in chemistry from Barnard College, her Ph.D. in chemical physics from MIT, and her M.P.P. from the Kennedy School of Government. She is a fellow of the American Association for the Advancement of Science and the American Physical Society. She is also a recipient of the National Science Foundation Faculty Award for Women Scientists and Engineers.

Directions to 95 Gathering Place

Merritt Pkwy: Exit 66 – Take a left off Parkway. Go about 1.5 miles. It is on the right across from Wallingford Toyota.

91 North/South: Exit 13, take a right at end of ramp. Travel 5-6 miles. After you reach Super Kmart, it is 1/8 mile on left (across from Wallingford Toyota).

From Waterbury: Take I-84 to I691 to Rte 15 south (Merritt Parkway). Follow Parkway instructions.

95 Gathering Place - Thursday October 23, 2003

All entrees include pasta or soup of the day, 95 Gathering salad, garlic bread, baked potato and vegetables, ice cream fudge or coffee or tea. Cheese & crackers and fresh vegetables with dip will also be available.

Entree choices:
- Sirloin steak dinner – with certified Angus beef $23.00
- Baked stuffed sole with seafood stuffing $23.00
- Boneless stuffed chicken with sausage stuffing $23.00

Prices include tax and tip.

Please make your reservation by contacting Dr. Michael Gelbin by Tuesday, October 21, 2003, at (203) 573-2646 or email to: michael_gelbin@cromptoncorp.com. High school and elementary school teachers (K-12), retired or unemployed chemists and students will be charged only $19 for the dinner. Please leave your name, telephone number, choice of entree, and number of reservations. 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 Dr. Gelbin so he can keep the count of number of attendees, and arrive at the restaurant by 8:00 PM when the lecture normally begins.

Situations Wanted

POLYMER CHEMIST, PhD, with 22 years experience and awards in industrial and electronic coatings (including 15 years at IBM Research). Willing to start at BS level salary (or contract) to prove my worth. Please contact John, 203-575-9170 or JJL11@aol.com.

Employment Help Available from ACS Website

Although unemployment among chemists is lower than among the general public, chemist unemployment is still at an all time high. The ACS can help job hunters in several ways. C&EN Chemjobs at http://www.cen-chemjobs.org continues to post resumes and job listings along with articles to help chemists find new employment. A variety of brochures and even individual help is available on the ACS Department of Career Services (DCS) website. Check it out at http://www.chemistry.org/portal/a/c/s/1/home.html.
This Month in Chemical History
Prepared for SCALACS, the journal of the Southern California, Orange County, and San Gorgonio Sections of the ACS, Harold Goldwhite, California State University, Los Angeles

This month I will give a short summary of the career of the German organic chemist, Hermann Kolbe, who was born near Goettingen on September 27, 1818.

Kolbe was the first of fifteen children of a Lutheran minister. He started his studies with Woehler in 1838, six years after Liebig and Woehler's seminal paper on the benzoin radical had appeared; this was one of the first demonstrations that particular groupings of atoms -- the radicals -- could maintain their integrity in the course of a set of organic reactions. Liebig and Woehler speculated that radicals were to organic chemistry as elements were to inorganic.

Kolbe moved to Marburg as Bunsen's assistant in 1842, and then to London in 1845 where he worked with Lyon Playfair in the Museum of Economic Geology analyzing gases that might be involved in mine explosions. Another of Playfair's assistants was Edward Frankland, father of organometallic chemistry and of the concept of valency; Kolbe and Frankland became lifelong friends. In 1845 Kolbe, accompanied by Frankland, returned to Marburg where Frankland initiated his work on organozinc compounds, which he continued on his return to England.

Kolbe succeeded Bunsen in the Chair at Marburg in 1851. After 14 years there he was called to Leipzig after Liebig's death; the university built a large new laboratory for him and his students. Kolbe excelled as a teacher and author. In addition to his own textbooks he contributed to Liebig and Woehler's comprehensive (10 volume) textbook of pure and applied chemistry. From 1870 he was editor of the influential Journal fuer Praktische Chemie.

Kolbe had strong views on the place of theory in chemistry. Following Berzelius he viewed organic compounds as derived from carbon dioxide by substitution, coupling, and other processes. Connections between compounds were purely formal and he regarded all efforts to describe the relative positions of atoms either in terms of connectivity or, worse, in terms of spatial relationships as hopeless and fundamentally unsound. This inevitably put Kolbe on a collision course with developing new chemical theories. I will return to this topic later, but first some comments on Kolbe's triumphs. In the course of work on chlorinated ethanes Kolbe effected the first complete synthesis of an organic compound, acetic acid, from inorganic precursors. His carbon source was carbon disulfide, chlorination of which gave carbon tetrachloride. This was pyrolyzed to yield tetrachloroethylene, aqueous chlorination of which gave trichloroacetic acid. This was reduced to acetic acid in an electrolytic cell. Kolbe went on to use electrolysis to produce what he originally regarded as hydrocarbon radicals (we now recognize them as dimers) from carboxylic acids -- one of the Kolbe reactions. In collaboration with Frankland he worked out the general homologation reaction in which an alkyl halide is converted to a nitrile and then to a carboxylic acid. Another Kolbe reaction is the production of salicylic acid, a useful disinfectant, from phenol and carbon dioxide.

To return to Kolbe as author and critic, and here I quote from Vol. IV of Partington's magisterial History of Chemistry: "He was straightforward and fearless and quite unawed by authority ..., his criticisms of the work and ideas of his contemporaries (particularly Kekule, Baeyer, and Emil Fischer) were more forcibly expressed than is now customary." I will close with the most famous example of Kolbe's rhetoric. When van’t Hoff published his "Chemistry in Space" as a short book in 1876 it included a preface by Wilsicenus. Kolbe rushed into print: "I would have ignored this work ..., had not a significant chemist [Wilsicenus] ..., recommended it ... A Dr. J. H. van't Hoff, employed at the School of Veterinary Medicine at Utrecht finds ... exact chemical research not to his taste. He has thought it more convenient to mount Pegasus (borrowed, no doubt, from the Veterinary School) and to proclaim ..., how on his daring flight to the chemical Parnassus the atoms appeared to be arranged in space ..., To criticize this paper in any detail is impossible because the play of imagination completely forsakes the solid ground of fact and is quite incomprehensible to the sober chemist."

Hermann Kolbe, a sober chemist and a great experimentalist, died near Leipzig on November 25, 1884.

50-Year Members to be Honored
Ten members of the New Haven Section have reached their 50-year milestone as ACS members. They will be honored at an upcoming Section meeting. Congratulations to the following:

Robert L. Bergen  Harry E. Hill
Michael Bolger  Lawrence Kenausis
William Andrew Chupka  John E. Lawson
William P. Colman  Benjamin Lipka
John D. Domijan  David McCartney


“Earth’s Atmosphere and Beyond!” is the theme of this year’s National Chemistry Week (NCW) celebration. The NCW unifying event is the honoring of innovators and pioneers in aviation and atmospheric chemistry.

The New Haven Section is again sponsoring a contest for grade school and high school students. Contestants are given a problem related to the theme. Solutions are submitted to the teachers to the Section’s NCW Committee who will use their expertise to select the best and/or most innovative solutions (with respect to student grade level). The winners will be honored at a Section meeting held in the spring.

In addition Section members will be assisting in demonstrations of chemistry and its relationship to the world we live in at various locations in the area.

ACS Budget & Finances

Ever wonder where your ACS dues go? Well, now you can check from desk. The Budget and Finance (B&F) website has been launched!

Members of the Society Committee on Budget and Finance (B&F) are pleased to announce the Budget and Finance website. This site provides easy-to-understand information about the finances of the ACS and is updated regularly with information that is important for every member to know. Highlights of the site include:

- The latest B&F report to Council
- The Society’s 2002 Consolidated Financial Statements
- Financial overview
- Details of the Society’s reserves
- The Sources and Uses of Society Funds

The B&F website can be found at: [www.chemistry.org/committees/budget](http://www.chemistry.org/committees/budget).

Please email your questions and suggestions about the kind of information you would like to see on the B&F website to help@acs.org.

Career Services at ACS Regional Meetings

The Career Resource Center offers a wealth of professional development programs and services to enhance your career potential, including resume reviews and a variety of professional development workshops. Regional Employment Clearinghouses (RECH) may also be featured at these meetings.

35th Central Regional Meeting  October 19-22, Pittsburgh, PA
55th Southeast Regional Meeting  November 16-19, Atlanta, GA
Words from Your Editor ...
Please note the guidelines for ‘want ads’ and ‘situations wanted’ to be put into the New Haven Section Bulletin. Celebrate National Chemistry Week October 19-25.
William Harned, Newsletter Editor

The Bulletin is also posted on the Section's web site at http://membership.acs.org/N/NewHaven
New Haven Section
VOLUME 20, NUMBER 4, November 2003

November 20, 2003 – NEW HAVEN SECTION MEETING

Dr. Robert A. Gregg,
will present the 2003 Chamberland Award address
"A Tale of Two Projects"
Rubber to Brass to Steel Adhesion,
and the Mechanism of Decomposition of Azodicarbonamide

December 16, 2003 – NEW HAVEN SECTION MEETING

Dr. Virginia Maxwell
will present
“Analysis of Trace Evidence in Criminal Investigations”

Section News and Announcements
• Chamberland Award presentation to Dr. Robert Gregg
• Ballot for 2004 Officers
• 2004 dues reminder
he served as Manager of Research in Uniroyal’s Textile Division, where he broadened his experience in polyurethane thread and cord technology. From 1964 to 1972 he served as Staff Scientist at the Wayne, N.J. Laboratories focusing on research planning, and conducting R&D on the initiation and regulation of ionic polymerization. During this period Dr. Gregg began to make frequent trips to Uniroyal’s laboratory in Naugatuck, CT., where he conducted research on the kinetics and mechanism of azodicarbonamide decomposition. In 1972 he transferred to Uniroyal’s R&D. Laboratory in Middlebury, CT., where he worked on a number of projects including the improvement of rubber to steel wire adhesion, polyethylene foam development, stereotactic polybutadiene polymerization, and EPDM modification for various applications. Dr. Gregg retired from Uniroyal in 1984. It is for his work in improving rubber to steel wire adhesion, particularly as applied to improving the properties of steel belted automobile tires, and contributions toward the development of cellular plastics, which find utility as flotation devices, and as impact absorbing and thermal insulation materials that Dr. Gregg has been selected to receive the Section’s Maurice R. Chamberland Award.

Throughout his career Dr. Gregg has been named as inventor on several patents, authored or co-authored a number of scientific papers, and written a chapter on Spandex and other elastomeric fibers for the Kirk-Othmer Encyclopedia of Chemical Technology.

Dr. Robert A. Gregg

will present

"A Tale of Two Projects"

Rubber to Brass to Steel Adhesion, and the Mechanism of Decomposition of Azodicarbonamide

Jesse Camille’s Restaurant -Thursday November 20, 2003

Buffet dinner includes a fresh garden salad, penne pasta, oven roasted red potatoes, chocolate mousse dessert, and coffee, tea or decaf.

Buffet Entrée Choices:  
Oven roasted chicken  
Eggplant parmesan  
Baked scrod

Price of $21.00 include tax and tip

Please make reservation by contacting Dr. Michael Gelbin by Tuesday, November 18, 2003, at (203) 573-2646 or email to: michael_gelbin@cromptoncorp.com. High school and elementary school teachers (K-12), retired or unemployed chemists and students will be charged only $18 for the dinner. Please leave your name, telephone number and number of reservations. 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 Dr. Gelbin so he can keep the count of number of attendees, and arrive at the restaurant by 8:00 PM. when the lecture begins.

Directions to Jesse Camille’s Restaurant

FROM New Haven: Whalley Av (Rt 63) north through Woodbridge and Bethany (Amity Rd). Continue through Naugatuck on Rt 63. The restaurant is on the right about ¼ 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. Left at 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.

Abstract: A contemporary steel belted radial ply tire is an outstanding engineering achievement made possible only because of remarkable chemical progress in material science. A major challenge in tire construction is achieving a level of adhesion of steel to rubber sufficient to withstand the continual stress changes in a tire at high speeds and temperatures for very long periods of time. One segment of the speaker’s address will include a brief review of tire development history, and evolve to a discussion of factors affecting adhesion of rubber to brass plated, high tensile, steel wire, identified through the development of newer methods for evaluating adhesion. Insight into the chemical reactions in the adhesion process, and the hitherto undocumented influence of moisture on the rubber curing process and vulcanization properties will also be presented.

A second aspect of the address will touch upon the chemistry of the decomposition of azodicarbonamide, which is now produced in thousands of tons for use in making foamed products, many of which one might not recognize as foamed materials. Azodicarbonamide decomposition has interesting kinetics arising from its virtual insolubility in any medium in which it is used. The rates of decomposition at a series of temperatures and under various other conditions will be discussed. A wide range of catalysts and inhibitors were discovered for the decomposition reaction.

Brief Biographical Sketch: Dr. Robert Arden Gregg was born in Dundee, Michigan in 1918. He received a B.A. degree, magna cum laude, from Adrian College in 1937. Following a year as an instructor in chemistry at Adrian, he enrolled in the University of Michigan where he received his M.S. (1940) and Ph.D. (1943) degrees in chemistry.

In 1942 Dr. Gregg joined the General Laboratories of Uniroyal (then called the U.S. Rubber Co.) in Passaic, N.J., where his early assignments included fundamental research on the mechanism of free radical polymerization, development of polyester film forming and casting resins, and exploration into polyurethane technology. In 1957 he transferred to Uniroyal’s Research Center in Wayne, N.J., where he continued research on the preparation and properties of Spandex thread. This is where Dr. Gregg first developed his interest in tire technology. From 1959 to 1963 he served as Manager of Research in Uniroyal’s Textile Division, where he broadened his experience in polyurethane thread and cord technology. From 1964 to 1972 he served as Staff Scientist at the Wayne, N.J. Laboratories focusing on research planning, and conducting R&D on the initiation and regulation of ionic polymerization. During this period Dr. Gregg began to make frequent trips to Uniroyal’s laboratory in Naugatuck, CT., where he conducted research on the kinetics and mechanism of azodicarbonamide decomposition. In 1972 he transferred to Uniroyal’s R&D. Laboratory in Middlebury, CT., where he worked on a number of projects including the improvement of rubber to steel wire adhesion, polyethylene foam development, stereotactic polybutadiene polymerization, and EPDM modification for various applications. Dr. Gregg retired from Uniroyal in 1984. It is for his work in improving rubber to steel wire adhesion, particularly as applied to improving the properties of steel belted automobile tires, and contributions toward the development of cellular plastics, which find utility as flotation devices, and as impact absorbing and thermal insulation materials that Dr. Gregg has been selected to receive the Section’s Maurice R. Chamberland Award.

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December Section Meeting

**95 Gathering Place**  
Tuesday December 16, 2003

**Dr. Virginia Maxwell**  
will present

**Analysis of Trace Evidence in Criminal Investigations**

95 Gathering Place  
Social Hour: 6:00 p.m.

865 No. Colony Road  
Dinner: 7:00 p.m.

Wallingford, CT 06492  
Lecture: 8:00 p.m.

(203) 265-1552

**Abstract:** The Locard Exchange principle dictates that a criminal will leave evidence and remove evidence in the commission of a crime. Whilst interest often centers on DNA evidence, it is of relevance in only a small percentage of criminal cases. In cases where no probative DNA evidence exists, trace evidence is utilized to provide linkage between victim, suspect and crime scene. Trace evidence may be in the form of paint, glass, soil, tape, hairs and fibers, as well as other less common materials. Trace evidence examiners subject these usually microscopic materials to scientific analysis and comparison. The use of databases can lead to the development of suspects from a minute paint chip or fibre.

In this talk, the analysis of scientific evidence will be discussed. Case studies will be presented to illustrate the application of this work to criminal investigation and reconstruction of the crime. Specific cases highlighted will include the use of a fibre to link a suspect to the murder of a child; paint chips as a means to determine the make and model of a hit-and-run vehicle; soil to link a killer to a shallow grave; and, the use of paint smears to reconstruct a fatal motor vehicle accident.

**Brief Biographical Sketch:** Dr. Virginia Maxwell is a criminalist with the State of Connecticut Department of Public Safety Forensic Laboratory. She earned a doctorate in physical chemistry from Oxford University in England and completed fellowships at the Royal Military College of Canada and Yale University School of Medicine before joining the forensic laboratory in 1993.

An examiner in Trace Evidence she works on a wide variety of cases from complex homicides to vandalisms. Maxwell collects of evidence at crime scenes, serves as an expert witness, lectures to police and analyzes evidence in the lab.

**Funding for Divisions and Local Sections**

The amendments to the Constitution to increase funding for divisions and local sections, approved by the Council in New Orleans last spring, were subsequently ratified by the membership: FOR 20,430 AGAINST 3,197

**Directions to 95 Gathering Place**

**Merritt Pkwy:** Exit 66 – Take a left off Parkway. go about 1.5 miles. Restaurant is on the right across from Wallingford Toyota.

**91 North/South:** Super Kmart, it is 1/8 mile on left (across from Wallingford Toyota).

**From Waterbury:** Parkway instructions.

**will present**

**95 Gathering Place -Tuesday December 16, 2003**

Buffet dinner includes house salad, baked ziti, fresh vegetable, oven roasted potatoes, dinner rolls, ice cream nut roll dessert and coffee or tea.

Buffet Entree choices: Baked stuffed sole  
Chicken marsala  
Roast sliced pork

Price of $20 includes tax and tip.

Please make your reservation by contacting **Dr. Michael Gelbin by Friday, December 12, 2003**, at (203) 573-2646 or email to: michael_gelbin@cromptoncorp.com. **High school and elementary school teachers (K-12), retired or unemployed chemists and students will be charged only $17 for the dinner.** Please leave your name, telephone number and number of reservations.

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 Dr. Gelbin so he can keep the count of number of attendees, and arrive at the restaurant by 8:00 PM when the lecture begins.

**Situations Wanted**

POLYMER CHEMIST, PhD, with 22 years experience and awards in industrial and electronic coatings (including 15 years at IBM Research). Willing to start at BS level salary (or contract) to prove my worth. Please contact John, 203-575-9170 or JJL11@aol.com.

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 (4x8 inch).

**Maurice R. Chamberland Award**

The Award was established by the Section in 1976 to honor the memory of the late Maurice R. Chamberland, who was actively involved with the Local Section prior to his death. To be eligible for the award the candidate shall have demonstrated notable innovation, discovery, or other outstanding contributions to chemistry, particularly as manifested in the application of chemistry to enhance societal well being. Furthermore, the achievement qualifying the nominee for the award must have been accomplished while a member of the New Haven Section. The recipient is required to deliver an address on the subject of his or her scientific work, preferably that for which the recognition has been made, at the dinner meeting at which the award is presented. The award consists of an honorarium and a commemorative plaque. A list of previous award recipients can be found on the Local Section Web Site.
Words from Your Editor ...

Cast your ballot for new Officers for 2004. Please note the guidelines for 'want ads' and 'situations wanted' to be put into the New Haven Section Bulletin.

-- Check out the Section’s web site --

William Harned, Newsletter Editor

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