



## New Haven Section

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VOLUME 19, NUMBER 1, March - April, 2002

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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

Note: *The Bulletin* can now be seen on the Section's **NEW web site** at URL: <http://membership.acs.org/N/NewHaven>

@ Fantasia, **Thursday, April 18, 2002**

**Dr. Michael Henchman**

Will speak on

*The Science Behind Art*

Fantasia  
404 Washington Avenue  
North Haven, CT  
203-239-6652

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 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

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.

Thursday, April 18

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

Entree Choices: Sliced Top Round au jus	\$20.00
Broiled Filet of Sole Calabrese	\$20.00
Chicken Francese	\$20.00
Children's portion (12 and under)	\$10.00

Prices include tax and tip.

Please make your reservation by **contacting Dr. Ali Banijamali by Thursday, April 11, 2002, at (203) 573-3220** or email to [ali\\_banijamali@cromptoncorp.com](mailto: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.

## Directions to Fantasia

**FROM I-91, From New Haven and South:** I-95 to I-91 Exit 12. Right onto Route 5 (North). One mile on Right at 2<sup>nd</sup> traffic light.

**FROM Meriden and Hartford:** I-91 South to Exit 12. Right onto Route 5 (North). One mile on Right at 2<sup>nd</sup> 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 (Wilbur 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.

@ The Townline Restaurant; **Wednesday, May 15, 2002**

**Dr. Arthur B. Ellis**

Will speak on

*The Chemist as Materials Scientist*

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

Social Hour: 6:00

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.

**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.

**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.

**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.

(Wednesday, May 15, 2002)

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

Entree Choices:	Prime Rib au jus	\$20.00	
	Chicken Parmigiana		\$20.00
	Baked Stuffed Shrimp	\$20.00	

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](mailto: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.

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 7:30 p.m. when the lecture normally begins.

- 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](mailto: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**

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 ...

**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](mailto:smily4594@worldnet.att.net)  
- A. Richard Smilo, Newsletter Editor New Haven Section ACS.



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## DATED MATERIAL

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

