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## **New Haven Section**

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**VOLUME 23, NUMBER 3, September, 2006**

**October 5, 2006 – NEW HAVEN SECTION MEETING**

**Dr. William F. Carroll, OxyChem**

will present

**From Garbage to Stuff: How We Recycle Plastics**

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**November 16, 2006 – NEW HAVEN SECTION MEETING**

**Dr. Kenneth Reifsnider, Connecticut Global Fuel Cell Center**

will present

**Fuel Cells and Alternative Energy:  
Engineering a Future We Can Live With**

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October Meeting Details

November Meeting Details

Call for Nomination of Officers for 2007

National Chemistry Week

National Chemistry Olympiad

Message from the Chair  
**Thursday, October 5, 2006**  
**95 Gathering Place in Wallingford, CT**  
**Dr. William F. Carroll**

will present

**From Garbage to Stuff: How We Recycle Plastics**

95 Gathering Place  
865 North Colony Road  
Wallingford, CT 06492  
(203) 265-1552

Social Hour: 5:30 pm  
Dinner: 6:30 pm  
Lecture: 7:30 pm  
[www.95gatheringplace.com](http://www.95gatheringplace.com)



**Abstract:** Is that recycling bin the springboard to giving material a new life or is it simply a blue wastebasket? What about surplus materials from industrial processes? Do they find their way out the back door to the landfill? This presentation discusses the four critical steps in recycling--collection, separation, reprocessing and remanufacture - and how they relate to plastics. The technology, the cost and the efficacy of the processes all matter. And the operative word, plastics, really is plural. Presentation includes a primer in the basic kinds of plastics, how they differ and how they are used in common articles, especially packaging. The presenter brings a few common articles for demonstrations,

and promises not to recycle an old quote from Dustin Hoffman!

**Biographical Sketch:** Dr. William F. Carroll, Jr. holds a B.A. in Chemistry and Physics from DePauw University, Greencastle, IN, an M.S. from Tulane University in New Orleans, and a Ph.D. from Indiana University, Bloomington, IN, both in Organic Chemistry. Bill started his industrial career in 1978 and after a year with Rohm and Haas Company, Bristol, PA, moved to what is now known as Occidental Chemical Corporation. He is currently Vice President, Chlorovinyl Issues for OxyChem and works on public policy issues and communications related to chlorine and PVC. He is also Adjunct Professor of Chemistry at Indiana University, Bloomington, Indiana and teaches polymer chemistry there. Bill is President (2005) of the American Chemical Society, a member of the ACS Budget and Finance Committee, and past chair of its International Activities Committee. He is a Fellow of the Royal Society of Chemistry, a member of the US National Committee for the International Union of Pure and Applied Chemistry, and a member of the Science Advisory Board for DePauw University. He has been an active member of and chaired various committees for a number of chemistry, plastics, fire protection and recycling organizations. He has served on expert groups commissioned by the United Nations Environmental Program, the State of Florida, and the Oregon Department of Environmental Quality. He received the Vinyl Institute's Roy T. Gottesman Leadership Award for lifetime achievement in 2000. He holds two patents, and has over forty publications in the fields of organic electrochemistry, polymer

chemistry, combustion chemistry and physics, incineration, plastics recycling and chlorine issues.

**95 Gathering Place – Thursday October 5, 2006**

Entrée choices: *Sirloin Steak*  
*Baked Stuffed Sole with Seafood Stuffing*  
*Boneless Stuffed Chicken with Sausage Stuffing*  
*Chicken Marsala*

Price: **\$15 for everyone.** Price includes tax and tip. Cash bar.

All entrees are served with pasta or soup of the day, salad, garlic bread, baked potato, vegetables, ice cream fudge roll, and coffee or tea.

Please make your reservation by contacting Dr. Jakiela by Tuesday October 3, 2006, at (203) 710-1406 or e-mail to: [dennis.jakiela@hotmail.com](mailto:dennis.jakiela@hotmail.com). Leave your name, telephone number, dinner choice and number of reservations desired. Cancellations must be made 24 hours prior to the meeting or you may be charged for dinner.

You may also attend the lecture without the dinner. Please notify Dennis Jakiela so he can keep the count of number of attendees, and arrive at the restaurant by 7:30 pm when the presentation will normally begin.

**Directions to 95 Gathering Place**

*From North or South Route 15 (Wilbur Cross Parkway)*

Take Exit 66. Left off exit ramp onto Route 5 South. Continue south (approximately ¾ mile) passing Super Stop and Shop on the left, and then a car dealership on the right. 95 Gathering Place is on the right immediately following the car dealership.

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**Message from the Chair**

It is with great pleasure that, by way of this Bulletin, the Officers of the New Haven Section ACS announce the first two of three general membership meetings that are planned before the end of the year, and issue a call (actually a plea) for nominations for offices that will become vacant at year's end.

Once again, we are attempting to improve the attendance at the meetings, in the hope that once members who never, or rarely attend meetings get to know who we are, they will decide to become involved with the Section as Officers or committee members, which will ensure the existence of the Section in the future.

For the October and November meetings we have been able to obtain two excellent speakers who will talk about topics that should be of interest to many Section members. Furthermore, we have once again decided to heavily subsidize the cost of meals for

attendees. So, even if the topic of the talk doesn't arouse your interest, the new meal prices might.

The Officers of the Section look forward to meeting you at one or both of the meetings announced in this Bulletin. David J. Smudin, Ph.D.

Thursday, November 16, 2006

Yankee Silversmith Inn

Dr. Kenneth Reifsnider

will present

**Fuel Cells and Alternative Energy:  
Engineering a Future We Can Live With**

Yankee Silversmith Inn  
1033 North Colony Road (Rt. 5)  
Wallingford, CT 06492  
(203) 269-5444

Social Hour: 5:30 pm  
Dinner: 6:30 pm  
Lecture: 7:30 pm

[www.yankeesilversmith.com](http://www.yankeesilversmith.com)



**Abstract:** Diminishing world fuel supplies and the effect of pollution and global warming on our health present an immediate need for changing the way we use energy. "Technologies of the future" like fuel cells and renewable fuels have been under development in our laboratories for over 40 years. We can create a healthy and secure future by using engineering to combine the science we have to make energy systems we need in our society, based on fuel cells and renewable fuels.

The Connecticut Global Fuel Cell Center was established in 2002 to assist in bringing fuel cell systems into our society. The activities of that Center, and the many industrial and agency partners of the Center will be described in detail. A prognosis of future directions and needs in this essential technology will be presented.

**Biographical Sketch:** Dr. Reifsnider joined the School of Engineering and the Connecticut Global Fuel Cell Center in 2002 from the Virginia Polytechnic Institute and State University where he was the Alexander Giacco Chair Professor of Engineering Science and Mechanics. Dr. Reifsnider serves on the editorial boards of five journals and is the current Editor-In-Chief of the International Journal of Fatigue. In addition, he is the co-Founding Editor of the Journal of Composites Technology and Research. He recently completed his signature text, entitled Damage Tolerance and Durability of Composite Material Systems. While at Virginia Tech, Dr. Reifsnider co-founded the Virginia Tech Center for Composite Materials and Structures and served as Director of the Virginia Institute for Material Systems. He also served as Deputy Director of the NSF Center for High Performance Polymeric Adhesives and Composites. From 1974 to 1992, he was Chairman of the Materials Engineering Science Ph.D. program at Virginia Tech. He also served as Associate Provost for Interdisciplinary Programs at Virginia Tech from 1995 to 2000. Dr. Reifsnider holds the Distinguished Research Award from the American Society for Composites, the J. Shelton Horsley Research Award from the Virginia Academy of Science, the Award of Merit from the American Society for Testing and Materials, and the Alumni Award for Research Excellence from Virginia Tech. He has served on the Board of Directors of ASTM and the Institute for Standards Research, serving as the Chairman of the Board of Trustees of the latter in 1989. Dr. Reifsnider earned his Ph.D. (1968) in Mechanics and Metallurgy & Solid Mechanics,

respectively, from the Johns Hopkins University.

**Yankee Silversmith Inn – Thursday November 16, 2006**

Entrée: Attendees may choose from a list of five items on the menu  
Price: \$15 for everyone. Price includes tax and tip. Cash bar.

All entrees are served with appetizer, salad, chef's choice of vegetable, potato or rice pilaf, Silversmith bakery basket, popovers, dessert and coffee, tea or decaf.

Please make your reservation by contacting Dr. Jakiela by Tuesday November 14, 2006, at (203) 710-1406 or e-mail to: [dennis.jakiela@hotmail.com](mailto:dennis.jakiela@hotmail.com). Leave your name, telephone number, dinner choice and number of reservations desired. Cancellations must be made 24 hours prior to the meeting or you may be charged for dinner.

You may also attend the lecture without the dinner. Please notify Dennis Jakiela so he can keep the count of number of attendees, and arrive at the restaurant by 7:30 pm when the presentation will normally begin.

**Directions to Yankee Silversmith Inn**

*From I-91 Southbound*

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

*From Rt. 15 (Wilber Cross Parkway) Northbound*

Exit 66, turn right at the end of the ramp. The Yankee Silversmith is a fraction of a mile on the left.

*From Rt. 15 (Wilber Cross Parkway) Southbound*

Exit 66. The Yankee Silversmith is at the end of the ramp straight ahead.

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**Congratulation to ACS 50-Year Members**

This year the following members of the New Haven Section have achieved the milestone of 50 years of membership in the American Chemical Society:

**Dr. Audley Cain**  
**Dr. Alan Sartorelli**  
**Dr. David Csejka**  
**Dr. Martin Saunders**  
**Mr. Harry Jancis**  
**Dr. Russel Wellman**

It is truly a pleasure to recognize this achievement and to congratulate these members on their long record of service, which has contributed to the success of the Society. We will formally invite these members to be our guests at a meeting of the general membership so that we can honor them more appropriately.

## Call for Nomination of Officers for 2007

The Executive Committee of the Section is issuing a call for nomination of members to run for the following offices, which will become vacant at the end of the year. All three officers are members of the local Section Executive Committee:

**Chairman-elect (Program Chairman):** This is a three-year position. In the first year, the individual elected becomes familiar with the operation of the Section. With assistance from other members of the Executive Committee, this individual will arrange for speakers and meeting locations for approximately six meetings of the general membership to be held during 2007. The first three meetings have usually been arranged by the outgoing Program Chair by the time that the new Program Chair takes office. Attendance at a one weekend New Leader's Conference, where contact and interaction with other new leaders, past chairs of local sections, and ACS staff provide information on the operation of the ACS and the local section, is encouraged and supported by the Section. In the second year the Program Chairman assumes the Chairmanship of the Section and is responsible for overseeing the activities of the Section and presiding over the meetings of the general membership. In the third year, as Immediate Past Chairman, duties are to meet with the Executive Committee to plan and oversee the activities of the Section.

**Treasurer:** The treasurer is responsible for handling all of the financial affairs of the Section, which include working with the Executive Committee on the preparation of the annual budget and financial report. This is a two-year position.

**Councilor:** A Councilor is a member of the Executive Committee, and as such meets periodically with other members of the committee to plan the direction and activities of the Section. A Councilor also acts as liaison between the national headquarters and the Local Section, and is periodically called upon to represent the Section at Council sessions held during National ACS meetings (travel expenses are reimbursed by the ACS). A Councilor serves for a period of three years.

A member of the Section may nominate another Section member or place his own name in nomination for any of the positions listed above which will become vacant at the end of the year. For further information or to make a nomination please contact either Dr. Dennis Jakiela at (203) 710-1406 (e-mail: [dennis.jakiela@hotmail.com](mailto:dennis.jakiela@hotmail.com)), or Dr. David Smudin at (203) 756-8648 (e-mail: [dsmudin@aol.com](mailto:dsmudin@aol.com)).

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## New Haven Section Making Plans for National Chemistry Week and the U.S. National Chemistry Olympiad. Volunteers will be needed.

### *National Chemistry Week*

The New Haven Section of the American Chemical Society has been inviting students and teachers in New Haven County to participate in National Chemistry Week Activities since 1991. We are promoting positive messages about chemistry and showing that the wonders of chemistry can be enjoyable and rewarding

The theme for National Chemistry Week (NCW) 2006 is “**Your Home—It’s All Built on Chemistry**” and will be celebrated October 22–28. Activities will allow the participants to understand more about where they live and will include activities and articles that investigate the chemistry of items found in the home - even the home itself.

The New Haven Section is once again sponsoring an experimental contest for all grammar/middle and high school students. The top ten students in the two groups will be invited with their teacher and family to attend an awards banquet in the spring of 2007. The five most complete entries in each group will receive a savings bond and a t-shirt while the next five best will receive t-shirts. All students who participate will receive a small prize just for entering. All teachers submitting entries will receive a subscription to Journal of Chemical Education or a comparable subscription of their choice.

We are also supporting the national poster contest, which will focus on science emphasizing chemical principles or concepts related to home safety. It is broken into grades K-2, 3-4, 5-8, and 9-12. The prize structure is as listed above with up to three winners in each group. The top winner for each of the age categories will have his or her poster entered in the National Contest.

The contest information will be available by mid-October. You may choose to participate in either or both contests. A very generous deadline is given for each of the contests which extends beyond the actual celebration dates. **However, to be considered for entry into the National poster contest, all posters must be postmarked by December 18, 2006.**

If you are interested in receiving complete contest details or more information, or if you would like to volunteer your services with regard to reviewing contest submissions or helping with the awards, please contact Caroline Maselli by phone at (203) 573-2039 or via e-mail at [caroline.maselli@chemtura.com](mailto:caroline.maselli@chemtura.com).

### *The U.S. National Chemistry Olympiad (USNCO)*

After a one-year hiatus, the Section is making plans to participate in the 2007 U.S. National Chemistry Olympiad. The USNCO program, sponsored by the ACS, is a multi-tiered chemistry competition for high school students in which outstanding students from high schools within the Section are selected to take part in a one-day National Chemistry Examination. This exam, which will be held in New Haven County at a time and place to be announced, comprises three parts; a 90 minute multiple-choice exam, a 105 minute written response exercise, and a 90 minute laboratory practical.

Examinations from the Section are sent to the National ACS office where they are graded along with exams from other local sections. The scores will be used to select 20 students who will attend a two-week training camp held at the U.S. Air Force Academy to prepare for the international competition. At the end of the camp, four students will be selected to represent the U.S. at the International Chemistry Olympiad.

We anticipate that volunteers will be needed as we prepare to give the National Chemistry Exam. For more information on the Olympiad and/or to volunteer your services, please contact either Dr. David Smudin at (203) 756-8648 (e-mail: [dsmudin@aol.com](mailto:dsmudin@aol.com)), or Dr. Dennis Jakiela at (203) 710-1406 (e-mail: [dennis.jakiela@hotmail.com](mailto:dennis.jakiela@hotmail.com)).

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**“Volunteering is the ultimate exercise in democracy. You vote in elections once a**

**year, but when you volunteer, you vote every day about the kind of community you want to live in.”** *Marjorie Moore, Minds Eye Information Service, Belleville, IL.*