



Vol. 83 (3) March 2007

# ISOTOPICS

The Cleveland Section of the American Chemical Society

## On Deck:

**Wednesday, April 18**  
*Education/Awards Night*

**Ken Street**  
*Spectroscopy Show*  
Cleveland Skating Club

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[http://www.csuohio.edu/cleveland\\_acs/](http://www.csuohio.edu/cleveland_acs/)

## March Meeting Notice

### Meeting-in-Miniature

Wednesday, March 7, 2007  
Notre Dame College

2:30 pm	Registration (Foyer, Administration Bldg)
3:00 pm	Technical Sessions (Administration Bldg)
5:00 pm	Plenary Address – Dr. Marion Thurnauer (Performing Arts Center)
6:00 pm	Social Hour and Poster Session (Connelly Center)
7:00 pm	Dinner (Rinehart Room) followed by the Awards Presentation

## The Multifaceted Diversity of Chemistry

*Marion C. Thurnauer, ACS Gavin-Olin Medal Winner*

Recently, chemists have expressed concern about the future of the chemical enterprise. We are asking questions such as: “Is chemistry the central science, or is it the enabling science?” “Should we take ‘Chemistry’ out of The American Chemical Society?” The outcomes of these discussions are uncertain. The certainty is that “There will be change.” These rapid dynamics translate into the prospect of exciting opportunities for those beginning or contemplating careers in ‘Chemistry’, a field of multifaceted diversity. Certainly one cannot predict the future, but we can think about it in the context of collective past experiences. In this talk I will use personal anecdotes to illustrate how expecting the unexpected can lead to a fulfilling career.

**DINNER RESERVATIONS REQUIRED:** Please RSVP by contacting Dr. Stephen Felch, by phone at 216-373-5365 or by e-mail at [sfelch@ndc.edu](mailto:sfelch@ndc.edu) by **noon on Friday, March 2**. (For phone reservations, please clearly spell your last name and leave a return phone number.) Cost of the dinner is \$20 for members & guests and \$10 for students. Checks made out to “Cleveland ACS” are greatly appreciated. The dinner will be Chicken Picatta, Pasta Primavera, Green Beans, Seasonal Greens Salad, and Assorted Mini Pastries.

## Directions to Notre Dame College

**From I-271:** Exit at Brainard Road/Cedar Road (#32); take Cedar Rd. west to Green Rd. Turn right onto Green Road (North). Take Green Road to College Road (four short blocks). Turn Right onto College Road. The entrance to Notre Dame will be on the left.

**From the East via Ohio Turnpike:** Exit at Gate 13; take I-480 (west) to I-271 (north). Follow "From I-271" directions.

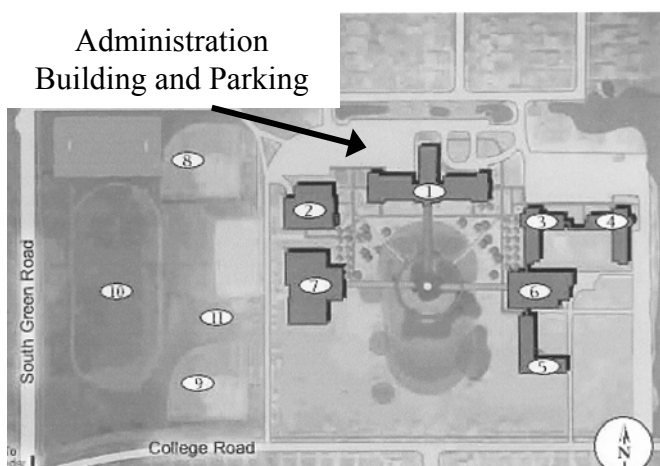
**From the West via Ohio Turnpike:** Exit at Gate 9A; take I-480 (east) to I-271 (north). Follow "From I-271" directions.

**From the East or West via I-90:** Exit at I-271 (south). Follow "From I-271" directions.

**From the South via I-71:** Exit at I-480 (east); follow to I-271 (north). Follow "From I-271" directions.

**If you are coming from south of Medina;** Take I-71 to I-271 (north) and then Follow "From I-271" directions.

**From the South via I-77:** Exit at I-271 (north) OR at I-480 (east) to I-271 (north). Follow "From I-271" directions



## Speaker Bio

Marion C. Thurnauer received a B.A., M.S., and Ph.D. in Chemistry from the University of Chicago. Her thesis research was in the area of photochemistry, in particular, she studied magnetic interactions in radical pairs using electron paramagnetic resonance spectroscopy.

Following her graduate work, she joined the Chemistry Division (CHM) of Argonne National Laboratory (ANL) as a Post Doctoral Associate. Subsequently she was promoted to the CHM-ANL staff, ultimately achieving the rank of Senior Scientist. She has served as Group Leader of the CHM Photosynthesis Research Group (1993-95) and Director of the ANL Chemistry Division (1995-2003). Currently, she is ANL Senior Scientist, Emeritus. Her research involves studies of sequential electron transfer in natural photosynthetic systems of photosynthetic bacteria and green plants and model photosynthetic systems. Her work also extends to development of time-resolved magnetic resonance techniques, particularly for application to study photochemical energy conversion. Her recent studies include surface modification of nanocrystalline metal oxide colloids to mimic the energy transduction of natural photosynthesis. She is author or coauthor of over 135 publications and 4 patents. She was awarded the 2002 Francis P. Garvan-John M. Olin Medal by the American Chemical Society. Other honors include: the University of Chicago Award for Distinguished Performance at Argonne in 1991; the Agnes Fay Morgan Research Award in 1987; elected as a Fellow of the American Association for the Advancement of Science in 1998; the Argonne Director's Award in 1990 for extraordinary effort in organizing the Science Careers in Search of Women Conference; and the Award of Merit from the Chicago Association of Technological Societies in 1990. Her professional activities include: Member, Editorial Board of Biophysical Journal (2000-2003); Member and Vice Chair, National Research Council: Chemical Sciences Roundtable (1998-2001); Chair, Gordon Research Conference on Photosynthesis: Biophysical Aspects (1994); Committee of Visitors, Division of Chemistry, NSF, 2001; Organizer of several symposia and workshops on magnetic resonance and photosynthesis. She was instrumental in initiating and organizing at ANL the several early and now annual science career conferences for young women (Science Careers in Search of Women). She was one of the founders of the Women in Science and Technology Program (WIST) at Argonne National Laboratory and as part of that program served as Women in Science Program Initiator (1992-94) and on the WIST

Steering Committee (1990-2003). She has served as speaker and on role model and mentoring panels for several workshops on issues related to women in science and currently participates in E-Mentoring.

### **Chemistry Olympiad - 2007**

*Attention All High School Teachers and Students*

We are pleased to announce our participation in the 2007 U.S. National Chemistry Olympiad (USNCO). This is a multi-tiered competition designed to stimulate and promote achievement in high school chemistry. Students competing in the USNCO are eligible to be selected as members of the United States team for the International Chemistry Olympiad (IChO). The 2007 international event will be held in Moscow, Russia. To prepare for the national event, Cleveland section of ACS will conduct the 2007 Preliminary Examination, as recommended by the UNSCO, during the month of March. Based on the success of the preliminary examination, specified numbers of the top students will be invited to take the USNCO national exam at Cleveland State University. Following the National exam in late April, twenty top chemistry students nationwide will be selected to attend a study camp. A team of four finalists and two alternates will represent the U.S. For those interested in participating in the 2007 High School Chemistry Olympiad, please find additional information regarding USNCO (& to see past tests) by going to:

<http://www.chemistry.org/portal/a/c/s/1/acdisplay.html?DOC=education/student/olympiad.html>

OR to find more details regarding the Preliminary Exam, watch for more announcements in Isotopics or contact Dr. Reiko Simmons.

Reiko Simmons, Ph.D.  
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Cleveland State University  
E-mail: [r.simmons@csuohio.edu](mailto:r.simmons@csuohio.edu)

### **2007 Irene C. Heller Award – Final Call for Nominations**

The Cleveland Section of the American Chemical Society annually sponsors an award to recognize an outstanding high school chemistry teacher in the Cleveland Section. The award consists of an honorarium of \$1,000 and a framed certificate. The award is named for Irene Heller of North Olmsted High School in recognition of her contributions as an outstanding high school chemistry teacher and her service to the Cleveland Section. Nominations for the award should be presented to Ken Street (contact info below) by **March 16, 2007**. The nominations should consist of information on the candidate's education, professional experience and activities, awards and honors, offices held and specifics on significant contributions. The letter of nomination should highlight these significant contributions. A detailed Curriculum Vita of the candidate may also be included. Seconding letters are suggested. Nominations should be sponsored by at least one member of the Cleveland Section. If you do not know a local section ACS member willing to serve as Champion for your candidate, contact Ken Street and he will provide one for you. The Cleveland Section is geographically confined to the counties of Cuyahoga, Geauga, Lorain, Medina, Huron, and Erie. Nominators of candidates who work outside of these counties may contact the Cleveland Section or the American Chemical Society for more information about High School Chemistry Teacher Awards. Electronic nominations using Word Files will be greatly appreciated.

Dr. Kenneth W. Street, Jr.  
Chair, Cleveland Section Awards Committee  
NASA - GRC  
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**Candidates Needed for 2008 Cleveland  
Section Offices**

The Cleveland Section is seeking candidates to run on the fall election slate for the following offices: Chair-Elect, Secretary, Director, Councilor, Alternate Councilor, and Trustee. Elected officers would begin service in January 2008. Interested parties should contact Dr. Robert G. Salomon as soon as possible at rgs@po.cwru.edu or 216-368-2592.

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American Chemical Society  
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