

# CINTACS



Newsletter of the Cincinnati Section of the American Chemical Society September, 2004  
Vol. 42, No. 1

## Meeting Calendar

<b>Sun.</b> <b>Sept. 26</b>	Section Picnic Germania Park
<b>Fri.</b> <b>Oct. 15</b>	Oesper Banquet University of Cincinnati
<b>Thurs.</b> <b>Dec. 9</b>	Janet Reid Xavier University
<b>Wed.</b> <b>Jan. 19</b>	Jennifer Holmgren TBA
<b>Wed.</b> <b>Feb. 16</b>	Chemist of the Year Givaudan Flavors
<b>Wed.</b> <b>Mar. 9</b>	Dr. Burkhard Jansen Genome Research Inst.
<b>Thurs.</b> <b>April 21</b>	High School Awards Northern Kentucky U.
<b>May</b>	Party Night!

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PLEASE join us for the Cincinnati Section's first "meeting" of the 2004-05 session...

## A FAMILY AND FRIENDS PICNIC At Germania Park Sunday, September 26, 2004, 1-5 PM

**Activities and Entertainment** will include live music, an academics vs. industrials softball game, chemistry trivia questions, a chemistry joke challenge (bring a favorite!), chemical demonstrations, and lots of other chemistry-related games and activities for everyone! Plus, you can find out about the section activities, committees, and discussion groups for the year.

**Germania Park** has a playground for children as well as playing field for various sports. Equipment for softball, basketball, volleyball and horseshoes will be available. The park has a covered pavilion (the picnic goes on rain or shine) and is conveniently located in a scenic rural setting.

1:00- 2:00pm Registration

The section will provide grilled hot dogs, hamburgers, chicken and bratwursts as well as condiments and drinks (beer, soft drinks, juice boxes). Food will be served at 2 pm.

**Family-style Potluck** Attendees are cordially requested to bring something. Last names A - M please bring a side dish or salad for 6 and N-Z a dessert for 6.

**Cost:** \$ 10 member individuals or \$15 members with family/

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**THE CINTACS NEWSLETTER****Vol. 42, No. 1 September, 2004**Editor.....Bruce S. Ault  
Advertising.....Ed Hunter

CINTACS is published nine times a year (September through May) by the Cincinnati Section of the American Chemical Society. The submission deadline will be approximately October 23 for the December, 2004 issue. Electronic submission is strongly preferred, except for original photos. All materials should be sent to:

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**From the Chair**

Welcome to the 2004-2005 session of the Cincinnati Section of the American Chemical Society; it promises to be an exciting year!

But first a few words about last year. Joel Shulman led the section to a very successful session. The meetings were well planned and featured excellent speakers. Project Seed was re-activated and the section held a joint meeting with NOBCHE. NCW was very successful and again we are a finalist for a National Award. In fact, our section is a finalist for four ChemLuminary awards. Congratulations, Joel, on a job well-done and thank you for all your advice and help in preparing me for the upcoming session and for leaving the Section in great shape!!

Now to this year. We are starting out with something a little different: a good old-fashioned picnic. Our section has over 1700 members and meeting attendance usually runs about 100 people. So, if you are one of those who can't seem to make it to our regular meetings, here's a chance to get to know your section a little better and to meet your fellow chemists in a relaxed social setting.

The Oesper Award Symposium in October is always one of the highlights of our season and this year Marshall Wilson has put together an exceptional symposium. This year's award recognizes the accomplishments of Professor George M. Whitesides and the speaker at the banquet on Fri. Oct. 15 will be the widely acclaimed science photographer, Felice Frankel. Normally one would have to travel to a national meeting to find speakers of the caliber of those at this year's Oesper Symposium on Oct. 16. Speakers include Chi-Huey Wong and Nobel laureate, K. Barry Sharpless. Prof. Whitesides is well-known for his interdisciplinary research and that is clearly reflected in the symposium. And that leads me to this comment about the rest of our program. I have always believed that chemistry is the central science and plays a crucial role in many related disciplines. Perhaps not entirely by design, our meeting program committee has assembled speakers which illustrate the interdisciplinary nature and the diversity of our wonderful science. Speakers in the 2004/05 session will include Janet Reid, the Chairwoman of the Greater Cincinnati Chamber of Commerce (and a Ph.D. chemist), Jennifer Holmgren, Director of Research at UOP and Dr. Burkhard Jansen, an expert in anti-sense RNA, from Oncogenex.

Again this year, we will have a joint meeting with NOBCHE. Reaching out to a new institution in our area, we will hold a jointly sponsored meeting at the Genome Research Institute. I'm very much indebted to Dan McLoughlin, Mark Laskovics, Hank Greeb, Joy Henderson and Roger Parker, (the members of our program committee) for their help and support in putting together the program.

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## Cincinnati Members Pitch NSF

The democratic process was at work during the recent July 4 congressional recess when ACS members from the Cincinnati Local Section advocated for increased support for the National Science Foundation (NSF). Specifically, during visits with five congressional offices, they urged that NSF be funded at the \$6.4 billion level stated in the NSF authorization bill signed by President Bush, which is \$700 million higher than the funding requested in the current budget.

In a meeting with Senator Jim Bunning (R-KY), the group stressed that NSF is critical to our nation's economic well-being and national security and valuable for training our future workforce. NSF's Math & Science Partnership program was of special interest to the Senator, and he expressed support to fund it.

The group also met with staff members from the offices of Representative Steve Chabot (R-OH), Representative Rob Portman (R-OH), Senator Mitch McConnell (R-KY), and Senator George Voinovich (R-OH). While not committing to the ACS funding level request, the legislative staff

agreed that funding NSF basic research and science education is important. They said that they would work to provide NSF with a percentage increase similar to last year (5 percent).



*Senator Jim Bunning (R-KY, center) meets with Cincinnati Local Section members: (left to right) Diana McGill, Joel Shulman, Allan Pinhas, and Ron Webb.*

Visiting Cincinnati ACS members included Diana McGill (Northern Kentucky University), Allan Pinhas (University of Cincinnati), Diane Grob Schmidt (Procter & Gamble and the ACS Board of Directors), Joel Shulman (University of Cincinnati and retiree of P&G), and Ron Webb (P&G). The meetings were organized by Brad Smith of the ACS Office of Legislative and Government Affairs, who joined the group for the visits.

If you would like to participate in similar activities in the future, please contact Niranjan Deo, Chair of the Government Affairs Committee, Cincinnati Section, at [ndeo@girindus.com](mailto:ndeo@girindus.com) or at 513-679-3007.

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spouse; \$5 member retirees, first time non-members, K-12 teachers, and students or \$10 for same with family/spouse.

### **Reservations:**

The meeting reservation form is online at <http://www.che.uc.edu/acs/cinacs.html>. This is the best and easiest way to register. As a less preferred alternative, you may send your reservations by email to [kim.carey@uc.edu](mailto:kim.carey@uc.edu). If it is absolutely impossible for you to make your reservation via the internet, call 513-556-0293 (please leave name, affiliation, a contact phone number and state if you are in one of the ½ price categories). Deadline for reservations is 12:00 noon on Mon. Sept. 20th.

**When you register please be certain to indicate how many adults and children will be attending.**

### **Directions to Germania Park, 3529 W. Kemper Rd :**

From I-275 take the Colerain Ave exit and go north on Colerain Ave (Rt 27) for about 2.5 miles. Take the Kemper Rd exit and turn right on to Kemper. Germania Park is on the right after about 1.3 miles. Alternatively, from I-275 W, take exit # 36 toward Mt. Healthy. Turn right onto Hamilton Ave (Rt 127) and go north about 0.8 miles. Turn left onto W. Kemper Rd. Germania Park is on the left after 1.6 miles.

**Contact:** Joy Henderson at 513-948-2359 for additional information.

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## Proposed Amendments to the Bylaws

The Bylaws Committee has been working diligently over the summer to initiate the process of amending certain Bylaws of the Section. A significant number of amendments will be proposed which will require approval of the Section membership down the road. The proposed changes include: 1) eliminating the specific mention of the Technical and Scientific Societies Council of Cincinnati as an organization the Section affiliates with and the subsequent elimination of the need to appoint representatives to the Council because the Council no longer exists, 2) eliminating specific wording which requires the Section to conduct elections using paper ballots in order to allow for elections via the Internet once National allows it, 3) changes to a) discontinue the need to run at least two candidates for officer positions, b) more readily identify Tellers, and c) resolve tie votes, 4) changes to consolidate the duties of the Chair of the Trustees and the Clerk of the Trustees as well as changes that specify certain financial handling practices of the Trustees Fund, and 5) elimination of the student loan program due to its discontinuation several years ago with a replacement bylaw governing the Section's various awards.

The process of amending bylaws occurs in several stages. First, the Bylaws Committee reviews the proposed amendments with the Section's Board of Directors. After input from and approval by the Board, the proposed amendments are submitted to the Council Committee on Constitution and Bylaws for preliminary review. Upon completion of the preliminary review (a process that may take up to 3 months), the proposed amendments must receive an affirmative vote by two-thirds of the members present at a regular Section meeting. The proposed amendments must be sent to all members of the Section in writing at least 7 days before the vote at the regular Section meeting. Finally, the amendments approved by the Section membership must be sent to the Council Committee on Constitution and Bylaws for final approval before their formal adoption.

The proposed amendments were approved by the Board on June 24, 2004 and sent to the Council Committee on Constitution and Bylaws on June

25, 2004. A vote on the proposed amendments by the Section membership is tentatively scheduled for the November regular Section meeting.

Respectfully submitted  
Ray D'Alonzo, Chair  
Bylaws Committee

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## Know Your Section

When you are attending external technical meetings, visiting a campus, or just plain socializing with scientists or engineers from other sections, remember you are representing the Cincinnati Section to the outside world. To do this best requires that you know something about your Section beyond its name. A good place to start is the Section's demographic profile. National ACS compiles demographic reports on each Section and, even though they are always lagging today's actuality, the picture is representative because these factors don't change much from year to year. The latest report was Dec. 31, 2002, and is the source of the extracts presented below.

On that date, the Cincinnati Section had 1712 members, placing it in the ACS LARGE category (1600-3199). (Categories are VERY LARGE, LARGE, MEDIUM LARGE, MEDIUM, MEDIUM SMALL, and SMALL). Members average 2188 in our category, so we are on the small end. Regular members in our Section number 1253 with the remainder coming from categories such as Emeritus, Retired, Student, National Affiliates, and others.

- Chemistry is the major for 1326 of our members. Chemical Engineers at 121 are the 2nd largest IDENTIFIED MAJORS group.
- As for ethnic background, WHITE accounts for 827 members (48%) followed by ASIANS at 153, AFRICAN AMERICANS at 39, and HISPANIC at 17. Six hundred sixty one members chose not to divulge their ethnic background.
- The African American figure is woefully short of the general population percentage. Males outnumber females by 1274 to 383.
- A look at the level of degree of the Chemistry members shows PhD's as the largest group at

688 (40%) with MS at 253 (15%), and BS at 598 (35%).

- The majority of our members are in the 31-55 age bracket with the largest number in the 46-50 bracket (207, 12%). Numbers beyond 55 are very small.

The report also presents data on INTEREST FIELDS, JOB TITLES, NATURE OF BUSINESS, and JOB ACTIVITY for those interested in further details on our membership.

Keep these demographic facts in mind and share them with other ACS members the next time you are engaged in a conversation on Sections. From personal experience I can assure you that others have an interest in comparing and contrasting their Section's demographics with ours.

Ted J. Logan

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## Section Meetings Sponsorships

The expenses associated with our monthly meetings run between \$1000 and \$2000 each. These include Social Hour, audiovisual equipment, room rental, speaker's travel, lodging, and food, and discounted meal tickets for students, teachers, retirees, and other guests. In order to defray these costs we implemented this program which is based on finding corporate, academic, or individual sponsors for specific meetings. We then use the sponsorship funds to broaden the geographic pool of speakers leading to better talks. We also can invite more guests to the meetings for overall increased attendance. This program, now three years old, has lived up to its promise of improving the quality of our programs and increasing meeting attendance. Thus we are again soliciting sponsors for each of the eight monthly meetings of the 2004-2005 program year.

To be a meeting sponsor requires a minimum contribution of \$1000 in cash or in-kind services for a particular meeting. In return a sponsor is highlighted in that particular issue of CINTACS, is listed in all 8 issues of the year and is recognized at the sponsored meeting. You probably noted last year that we had academic institutions, corporations, and active and retired individuals as sponsors. We

plan to solicit the same groups beginning now and hope to have a complete list of sponsors for all meetings in the program year before the first one in September.

I should mention that those Section members fortunate enough to hold appreciated stock, can find a sizable tax advantage in meeting the monetary requirement through donated stocks, and I can provide further details to anyone interested in this approach.

Isn't it a good time to consider giving something back to the Section in the form of a meeting sponsorship, knowing that it will improve the quality of programs and attendance and better serve our membership in many ways? Please contact me if you have any interest in sponsorship and, of course, I will be writing many letters to solicit sponsors for the new program year

Ted J. Logan, CHAIR  
Section Meeting Sponsorship Solicitation  
e-mail: TJLOGANCIN@AOL.COM

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## Retired Chemist Committee (RCC)

For one wild week in April the RCC demonstrated "cool chemistry" experiments to 30 classes of 5<sup>th</sup> and 6<sup>th</sup> grade students at the Winton Woods elementary schools. The experiments centered on liquid nitrogen and dry ice and CO<sub>2</sub> demonstrations, which were lots of fun and educational. The presenters, consisting of Ralph Damico, Hank Greeb, David Greenberg, Dave O'Connor, Dave Rice, George Rizzi and Sally Vonderbrink, very much enjoyed their experience with 750 of Winton Woods' most excited and energetic students. With 150 thank you notes from the students in hand, we will give revised chemistry demonstrations in 2004-2005 to Winton Woods' students.

Planning for 2004-2005 include at least two new school districts and hopes of adding at least 2 new committee members. All of those closet chemists in the Cincinnati area should think about joining our team, and can call Ralph Damico at 772-0065 or e-mail him at RDamico@AOL.com.

Ralph Damico

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## 2004 Oesper Award

### Honoring **George M. Whitesides** of Harvard University

#### Oesper Banquet and Cincinnati Section Poster Session

Friday, October 15, 2004

University of Cincinnati, Faculty Club

5:30 PM Poster Session, 7:00 PM Banquet

Speaker: **Felice Frankel**, *MIT*, The Power of the "Pretty Picture"

#### Oesper Symposium

8:55 AM - 5:00 PM Saturday, October 16, 2004

University of Cincinnati, Faculty Club

#### Program

**Eugenia Kumacheva**, *University of Toronto*, "Materials with Structural Hierarchy"

**Tobin J. Marks**, *Northwestern University*, "Self-assembly Routes to Nanoscale Photonic and Electronic Structures and Devices"

**Ralph G. Nuzzo**, *University of Illinois at Urbana-Champaign*, "Micro, Nano, Macro: Silicon, Silicones, and Soft-Lithography Off Road on the Road Map"

**Joanna Aizenberg**, *Bell Laboratories*, "Control of Inorganic Crystallization by Organic Surfaces: A Bio-inspired approach"

**John I. Brauman**, *Stanford University*, "Exotic Electronic States of Negative Ions"

**Jean M. J. Fréchet**, *University of California at Berkeley*, "Designing Dendrimers and Nanoparticles for the Delivery of Therapeutic Agents and Vaccines"

**Chi-Huey Wong**, *The Scripps Research Institute*, "Protein Glycosylation: Challenges and Opportunities"

**K. Barry Sharpless**, *The Scripps Research Institute*, "Stitching with Nitrogen"

**George M. Whitesides**, *Harvard University*, "Dynamic Self-assembly, Complexity, and Emergence"

For more information please see the Oesper website at: <http://www.che.uc.edu/alumni/oesper/index.html>

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## Chemical Education Group Nanotechnology in the Classroom

At every turn, students are seeing the words, nanotechnology and microstructure, in the popular media. What are we doing in the classroom to address these terms and areas of research? Let us come together for our first meeting of the school year to share our approaches and activities that incorporate material science and condensed state concepts. The meeting will be held on Wednesday, October 13, in Linda Ford's classroom at Seven Hills School. The meeting will begin at 6:30 PM for announcements and social time. The program will begin at 7 PM and conclude by 8:30 PM. Linda had the opportunity to do research in superconductivity at the National High Magnetic Field Laboratory in Tallahassee during the summer. She will share some of the activities on magnetic materials that fit into the nanotechnology theme. The evening should also include topics such as new alloys, liquid crystals, polymers, ceramics, optical fibers, semiconducting materials, films, and nanotubes. If you plan to present, please contact Linda prior to the meeting so that she can create an organized order of presentation. Encourage your colleagues to attend; new faces are always welcome. Expect to go home with well-tested and creative new ideas for your curriculum!

Nancy Klas will host the winter meeting at St. Xavier High School. The program will be a classroom project sharing session. Teachers are encouraged to share projects that incorporate research, device building, contests, 3-D displays and or posters, and multi-disciplinary interaction.

Linda is still looking for a site and program idea for the Spring meeting. Please e-mail her at [Linda.ford@7hills.org](mailto:Linda.ford@7hills.org) to volunteer.

**DIRECTIONS** to Seven Hills: Exit I-71 at Red Bank Road. Proceed east to the first traffic light and turn right onto Duck Creek. As you travel up the hill take the first quick right onto Old Red Bank Road. Travel about 0.1 mile and you will see the school on your right. Turn into that first parking lot by the tennis courts. The science classrooms face the courts; Linda will have her outer classroom door well marked. Questions? Call the school at 272-5360.

## Younger Chemists Committee: Upcoming Happy Hour

The Younger Chemists Committee will be hosting a Happy Hour at the Rock Bottom Brewery on Fountain Square on Tuesday, September 14 from 6-8 PM. We'll have FREE FOOD AND DRINKS for those wild and crazy (or meek and tame) chemists under 35. If you know of a colleague that fits the bill, please encourage him or her to join us. YCC is always looking for new folks to meet up with socializing and networking. The YCC also wants ideas and suggestions for events in this upcoming year- tours, speakers, social activities, etc. For questions/information, contact Joy Henderson, 513-948-2359, [ascincinnati@yahoo.com](mailto:ascincinnati@yahoo.com) or see the YCC web site: <http://www.che.uc.edu/ycc/index.html>.

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Each Fall, our section runs a very active National Chemistry Week program. Victor Arredondo is the NCW chair this year. This year's theme is Health and Wellness. Please contact Victor if you would like to be involved in this very important activity.

Increasing meeting attendance and membership is a key issue for our section. In discussing this concern with some of our members, this suggestion surfaced: bring a friend or acquaintance along to a meeting. Tell them about all the things the section does and the interesting speakers that we have at our meetings. Point out that our meetings are a great chance to meet and network with your counterparts in various academic and industrial organizations in our region. If each of our "regulars" brought just one person to only one meeting in the coming season our attendance would go up by over 10%.

Looking forward to seeing you at our September picnic .... And bring a friend!

Phil Christenson  
[phil.christenson@givaudan.com](mailto:phil.christenson@givaudan.com)

## Project SEED

Project SEED is a program administered by the American Chemical Society that offers a unique opportunity for economically disadvantaged high school students to spend the summer conducting hands-on chemical research with scientists in a laboratory setting. For the second summer in a row, the Cincinnati Section of the ACS sponsored a Project SEED program. Five students spent eight weeks at the University of Cincinnati, doing chemical research.

- Cassandra Dees, Winton Woods High School, worked in the lab of Professor Pat Limbach on the surface chemistry of thermoplastics for microfluidic devices.
- Andrew Hetrick, Hamilton High School, worked in the lab of Professor Mike Baldwin on the synthesis of new ligands and transition metal complexes for oxygen activation.
- Nina Yarbrough, Withrow International High School, worked in the laboratory of Professor Anna Gudmundsdóttir on the investigation of triplet nitrenes for the development of new materials.
- Javier Jones, Purcell Marian High School, worked in the laboratory of Professor James Mack on the synthesis of corannulene-based carcerands.
- Neal Mitchell, Jacobs High School, worked in the lab of Professor Bill Connick on the synthesis of platinum complexes for photocatalysis.

All five students had a very positive summer research experience. "I loved it," said one student. Another commented "I never thought I would get so into this."

This program would not have been possible without the efforts of local high school teachers to find suitable candidates. If you are a chemistry teacher with a student who might be interested in participating in Project SEED next summer, or if you are a practicing chemist (academia, industry, or government) who would like to host a high school student in your lab, contact Bill Connick at [bill.connick@uc.edu](mailto:bill.connick@uc.edu). To learn more about the program, visit: <http://www.che.uc.edu/kim/SEED/description.htm>.

## Career Services: Cincinnati Section's Roles and Opportunities

The local section's Career Services committee is looking for suggestions and ideas for better ways to serve the section. The web site (<http://www.che.uc.edu/acs/career.html>) will be updated with more current information soon, and we'd like to include job postings as they become available. If you have questions about the committee, suggestions on ways to better meet the needs of the section, or information that should be included on the web site, please contact Joy Henderson, 513-948-2359, [acscincinnati@yahoo.com](mailto:acscincinnati@yahoo.com).

### CAREER SERVICES

Unemployed?  
Need Resume Advice?  
Seeking New Opportunities?  
Looking for chemists?

#### FIND OUT WHAT ACS CAN DO FOR YOU!

For more information, visit the career services website at:

<http://www.che.uc.edu/acs/career.html>

Or contact

[acscincinnati@yahoo.com](mailto:acscincinnati@yahoo.com)

Visit the  
Section's Home Page

<http://www.che.uc.edu/acs>

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## National Chemistry Week (NCW) 2004: HEALTH AND WELL- NESS!

Greetings fellow members! My name is Victor Arredondo and I am the new NCW chair. I want to invite all interested chemistry practitioners (chemists, teachers, students) to join the Cincinnati ACS NCW volunteer team. Every year during NCW we provide fun-filled, learning experiences by carrying out chemistry demonstrations at the Cincinnati Museum Center, many local libraries and schools. If you are not comfortable in front of an audience, please consider joining as a "roadie" or as a member of the planning committee, we need all the help and new ideas we can get. The team also welcomes and appreciates any ideas for chemistry demos (targeted to 4-6th grade level) for this year's theme, so please share them with us. Contact Victor M. Arredondo, NCW chair, at [arredondo.vm@pg.com](mailto:arredondo.vm@pg.com), (513) 627-1948 or regular mail: Victor M. Arredondo, 7469 Cinnamon Woods Dr., West Chester, OH 45069. Thank you, I look forward working with you all!!

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## Career Services at ACS Re- gional Meetings

Visit the Career Resource Center at these ACS regional meetings for an array of professional development programs and services. Features may include an employment clearinghouse (RECH), career management workshops and one-on-one resume critiques.

Southwest Regional Meeting  
September 29 – October 2, Ft. Worth, TX

Great Lakes Regional Meeting  
October 17-20, Peoria, IL

Midwest Regional Meeting  
October 20-22, Manhattan, KS

Western Regional Meeting  
October 27-30, Sacramento, CA

Northeast Regional Meeting  
October 31- November 3, Rochester, NY

Southeast Regional Meeting  
November 10-13, Raleigh/Durham, NC

For more information, job seekers and employers may visit the ACS website [www.chemistry.org/careers](http://www.chemistry.org/careers) or call 1-800-227-5558 x6209.

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## Williams Receives 2004 Outstanding Service Award

On May 21, 2004 Dr. John P. Williams received the Section's Outstanding Service Award. This is in recognition of his long contributions promoting Section involvement in regional science education. Since 1983 he has chaired the Oesper and Olympiad High School Awards Committee. Each year this committee organizes and provides services to administer ACS exams to regional high school students for the Oesper awards and Science Olympiad. The notable success of our students over the years has led to national recognition for our Section. John holds the position of Associate Professor of Chemistry and Coordinator of Math, Science, & Education at Miami University Hamilton. His principal area of scholarship involves curriculum development at the middle school level.



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### Thoughts to Ponder....

*Example is leadership.* –Albert Schweitzer

*When you build bridges, you can keep crossing them.* – Rick Pitino

*If things go wrong, don't go with them.* --Roger Babson

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