



THE DAYTON SECTION

Fostering scientific education and research, and promoting public understanding of science since 1930

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<http://DaytonACS.org>

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BULLETIN**Wave Election Edition 2010****Meetings and Events**

October 23: National Chemistry Week Library Event

November 6-7: National Chemistry Week Museum Event

November 18: Professional Practices Meeting

Section Election

- Candidate Biographies and Statements — pages 6-7
- Ballot — enclosed

Section News and Other Stuff

- Report from Council — page 3
- Past Meetings — pages 4-5
- Letters to the Editor — page 8
- Alzheimer's Avoidance Therapy — page 8
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DATE MATERIAL - MEETING ANNOUNCEMENT - DO NOT DELAY

ADDRESS SERVICE REQUESTED

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UPCOMING MEETINGS

OCTOBER 23 AND NOVEMBER 6-7

National Chemistry Week 2010 – *Behind the Scenes with Chemistry*

Chemistry is everywhere – prominently as a science fair project or inconspicuously as a special effect or book. Current TV shows like *Mythbusters* and books such as *The Science of Harry Potter* bring behind-the-scenes science into full view, allowing the public to understand that it is not magic, but rather chemistry that explains the mystery behind what appears to be “magic” that is shown. We want to diminish the term “magic” associated with the “unexplainable” and direct attention to the chemistry that makes it all work. Come out and participate in our activities!

As in years past, we'll have two events:

The first is a free event on Saturday, October 23, 10:00 AM – 2:00 PM at the Centerville Library, 111 W. Spring Valley Road.

The second event will be Saturday, November 6 and Sunday, November 7, noon – 4:00 PM both days, at the Boonshoft Museum of Discovery, 2600 DeWeese Parkway, Dayton (See www.boonshoftmuseum.org for directions). Museum admission is required.

We need volunteers to help the Section with either event. If you are interested in helping out please call Joy Haley at (937) 255-9718 or e-mail Joy.Haley@wpafb.af.mil to let her know which day you are available and a time frame. Volunteers will be rewarded with the best free pizza in the Miami Valley.

NOVEMBER 18

PROFESSIONAL PRACTICES

Venue: Wellington Grille, 2450 Dayton Xenia Road, Beavercreek, (937) 426-4600

Social: 6:15 PM

Dinner: 7:00 PM

It has become the tradition of the Dayton Section's Professional Practices Meeting to honor those section members, who, during the past year, have attained 50 or 60 years of ACS membership. This year, our new 50-year members are: Prof. Albert V. Fratini and Dr. Tsu Tsai. Our new 60-year members are Mr. Robert D. Fremgen and Dr. Leo Parts. Another long-time section member and volunteer is listed as a 50-year member but she claims that while it has been 50 years since she first became an ACS member, she has not been a member for 50 years. She has requested not to receive her award (and to remain anonymous) but we won't quibble if she changes her mind and accepts.

All section members with more than 50 years of ACS membership are invited as guests of the Dayton Section. Of course, all other members of the Dayton Section are welcome to attend, as well. There will be no keynote speaker this year but the 50-year and 60-year members are welcome to speak a few words on their careers and years of service to the ACS. Given the fine beer selection at the Wellington, most of us won't be listening, anyway.

We will also announce the results of the section election, so please join us and raise a pint to welcome our newly elected officers, bid farewell to outgoing officers, and see what's new for 2011.

Reservations: Contact Venkat by November 10th at (937) 255-9913, at narayanan.venkat@wpafb.af.mil, or at narayanan.venkat@udri.udayton.edu.

REPORT FROM COUNCIL

Although the technical program at the Boston ACS Meeting took place at the new convention center near the waterfront, Council was held at the Sheraton Hotel in the Back Bay. Plenty of Sam Adams was made available at SciMix, evening poster sessions, and awards programs in order to alleviate the frustration of the delays caused by having to take the ACS Shuttle back and forth from the Back Bay to the convention center, except if you're like me and a few beers only serve to enhance your grudge.

My fellow Councilors and I did a lot of voting at Council, that's for sure. We elected Janet L. Bryant, H. N. Cheng, Amber S. Hinkle, V. Michael Mautino, and Yorke E. Rhodes for the 2011-2013 term of the Committee on Committees. We elected John E. Adams, Alan M. Ehrlich, Mary Virginia Orna, and Dorothy J. Phillips for the 2011-2013 term of the Council Policy Committee (this totally amazed me because both Adams and Ehrlich are members of my Committee — Constitution and Bylaws (C&B), which is said to be the most unpopular committee in ACS (it's members typically do not fare well in Committee elections). We elected Jeannette E. Brown, Martha L. Casey, D. Richard Cobb, Lissa Dulany, and Angela K. Wilson for the 2011-2013 term of the Committee on Nominations and Elections. Council voted to continue the Committee on Science.

The Council voted to approve the Petition on Recorded Votes, which provides for additional voting methods, e.g., electronic clickers that have been recently used at Council meetings, when conducting recorded votes. The Board of Directors will vote within 90 days on whether to ratify the approved petition. Issues related to this petition were discussed *ad nauseum* in C&B's meeting. With the new clickers, all votes are actually recorded, so should we re-vote when a recorded vote is approved or should we just publish in *C&EN* the results of the original vote? Should calls for a recorded vote be accepted after a vote is taken? If so, how long a period should take place before it is denied? Needless to say, these intricacies were not discussed on the floor of Council.

By far, most controversial was a "special discussion item" — something that I am sure you could not care less about but here it is anyway. ACS President Joseph Francisco invited the Council Policy Committee Vice Chair to present a proposal to move Council meetings from Wednesdays to Tuesdays. The proposal included survey results from Councilors and other stakeholders followed by a robust discussion on the pros and cons of a move. Councilors who wanted the move to Tuesdays wanted to get back to work and their families a day sooner, although one mother of toddlers was opposed to the move; she appreciated the days of relative sanity an ACS meeting offers her. Those who were opposed to the move claimed that the meeting would effectively end one day sooner; you think Thursday is a ghost town, move Council to Tuesdays and Wednesday will be, too. A small minority (me included) want Council to move to Thursday. Councilors concluded their discussion with a straw poll that showed 128 are supportive of the proposed move of Council to Tuesdays, 225 oppose the move, and 56 namby-pambies are undecided. The Council Policy Committee and the Board of Directors will decide by spring 2011 whether the Council should move from Wednesday to Tuesday.

The Council voted to change the territory of the Northeast Oklahoma Local Section to include all members residing in the North Central Oklahoma Local Section territory. The North Central Oklahoma Local Section will be dissolving because its membership has fallen below the minimum requirement. And I thought that *Dayton* was a cultural wasteland. Just watch, in the next life, I'll find myself in the former North Central Oklahoma Section. Similarly, the Norwich Local Section's membership has fallen below the minimum requirement, so Council voted for its territory to be absorbed by the Binghamton Local Section. Now, I've been to Norwich, NY (several times), and IMHO it has at least two advantages over North Central OK — it's not nearly as hot and it's within a 4-hour's drive of New York City. And the beach! I'll bet the pizza is a lot better, too.

Your faithful Councilor,
Steve Trohalaki

PAST MEETING — THE SIXTH ANNUAL PICNIC OF THE NEW ERA

We were at a new location this year — a metropark near Germantown. Several of us mistakenly confused it with the ends of the earth, which was seemingly confirmed when our GPS stated, “You have arrived at your destination” but the only view out the car window was tall grass, weeds, and an occasional squatter. Still, a good time was had by all, as these photos attest.



Beatrice is not even 2, yet she is already bored by her Dad.



No one could quite figure out why Ben repeatedly signaled “Touchdown!”



Hilmar and Vladimir blamed their trouncing by girls on the uneven terrain.



Emily reacts to a red-hot cinder shooting out of the grill.



“That’s the stupidest thing I’ve ever heard anyone say in my life. And I’m pretty old!”



“Do you come here often?”



Don’t these kids ever stop texting?



The smell of fresh meat on the grill put everyone in a good mood.



Ray is just so freakin' cool.



"We'll sneak these bags out of here when no one is looking and make a nice polenta for dinner. Just keep smiling."



As usual, Steve's life story makes someone cry.



There's nothing that caps off a long day of corn hole and Frisbee in the sun, followed by the consumption of large quantities of grilled meat, like some intense data analysis.



"I'll stop eating animals tomorrow."



The 2011 Dayton Section First Family. They have absolutely no idea the level of media scrutiny that's in store for them in the year ahead.



When Jim got up that morning, the last thing in the world he expected was to meet his biological father for the first time.



"Blonds have more fun? Say what?"



Several hundred dollars in winnings had to be returned when irregularities were discovered in Jim's Corn Hole set.

Thanks for everyone who came out and made our Annual Picnic a success. The Section owes debts of thanks to Todd Yeates for making the reservations; to Hilmar and Meredith Koerner for doing all the shopping; and to Steve T for doing all the grilling, although next time let the fire cool down a bit before you put the bratwurst on the grill, you moron. And special thanks goes out to our gargling instructor, Ginger Vitas.

2010 ELECTIONS—CANDIDATE BIOGRAPHIES & STATEMENTS

OK all you Mama Grizzlies out there, quit your tea-bagging for just a moment and vote to elect our new Section Officers: Chair-Elect, Treasurer, Councilor, and Alternate Councilor. For your convenience, we've removed from the ballot all communists and illegal aliens. Ironically, however, the ballot now resembles those from the old Soviet Union, i.e., there is only one candidate per office. You betcha!

The Chair-Elect will serve in that capacity in 2011, as Chair in 2012, and as Immediate Past Chair in 2013. The Treasurer will serve a 2-year term starting in 2011, while both Councilor and Alternate Councilor will serve 3-year terms starting in 2011. The Ballot and voting instructions are enclosed.

Office: Chair-Elect

Candidate: Suzanne Seleem

Position Title & Place of Employment:

Associate Professor/Chair, Natural Sciences Department, Central State University, Wilberforce, OH

Education:

B.Sc. in Chemistry, Department of Science & Engineering, The American University, Cairo, Egypt

M.Sc. in Solid State Chemistry, Dept. of Science & Engineering, The American Univ., Cairo, Egypt

Ph.D. in Surface Chemistry, Chemistry Department University of West London, UK, 1992

Professional Society Affiliations:

The American Chemical Society, 1996

The Royal Society of Chemistry, UK, 1989. Recipient of the title chartered scientist in 2004

The American Association for the Advancement of Science, 1998

The New York Academy of Sciences, 1999

Sigma Xi, 2000

Society of Archaeological Sciences, 2002 - 2008

The Rotary Club, 2001

American Red Cross, 1995

Delta Epsilon Sigma, 2002

American Association of Forensic Scientists – pending

Juvenile Diabetes Research Foundation

Statement:

Before joining CSU as an Assistant Professor in 2004, I was an Assistant Professor at Long Island University, Yale, and Loras College, teaching physical chemistry and quantitative analysis. At Central State University, I introduced and developed many courses, in physical chemistry, as well in computational chemistry, radiochemistry and forensic sciences (a new minor will start Fall 2011). My research interests and affiliations are in nuclear chemistry applications and forensic chemistry, which I carried out at BNL, AFIT, and UC. I am the academic advisor for the ACS student chapter at CSU (established in 2009), the CSU Chem Club, and the CSU Rotaract club. I am currently in the process in bringing back ACS accreditation to CSU.

Office: Treasurer

Candidate: Christopher Tabor

Position Title and Place of Employment:

Research Scientist, Air Force Research Laboratory, WPAFB

Education:

Ph.D. in Chemistry, Georgia Institute of Technology, December 2009

B.S. in Chemistry, Centre College, May 2004

Professional Society Affiliations:

American Chemical Society, member since 2006

Statement:

I look forward to serving as the Treasurer of the Dayton Section of the ACS. As Treasurer I shall assiduously create and maintain a balanced budget so that the many worthwhile section activities will continue to be funded.

CANDIDATE BIOGRAPHIES & STATEMENTS, CONTINUED

Office: Councilor

Candidate: Steve Trohalaki

Position Title & Place of Employment:

Computational Chemist, Visiting Scientist, Air Force Research Laboratory, since 1991

Education:

B.S., Chemistry, University at Albany, State University of New York, 1979

Ph.D., Physical Chemistry, University at Albany, State University of New York, 1987

Postdoctoral Research Assistant, Dept. of Chemistry, University of Cincinnati, 1987-88

Postdoctoral Research Associate, Dept. of Chemical Engineering, Syracuse University, 1989-90

Professional Society Affiliations:

Member of the American Chemical Society since 1981

Member of the COMP, INOR, and PROF Divisions

Attended nearly all National Meetings since 1990 (and a couple before 1990)

Veteran of over a dozen National and Regional Employment Clearinghouses/ChemJobs/Career Fairs

Dayton Section Offices, Committees, and Other Activities:

Alternate Councilor and ACS Delegate to the Affiliate Societies Council of Dayton, 1999-2004

Federal and State Government Contact, 1997-2000

National Chemistry Week Coordinator, 1997-2001

Government Relations Chair, 1995

Public Relations Chair, 1995-2002

Bylaws Committee, 1999-2000

Bulletin Editor, 2004-present

1996 Central Regional Meeting

Printing & Publicity Chair

Younger Chemist Committee Organizer

Employment Clearinghouse Contact

2010 Central Regional Meeting

My mind's a blank

Member of the Materials Research Society intermittently since 1991

Special Contributor to the *MRS Bulletin* since 2002

Statement

By most accounts, my most impressive accomplishment over the past three years was to bring a Magic Hat Seasonal Variety 12-Pack and a few bags of pretzels to the inaugural Meeting of the Board at the Section's new digs. Apparently, the experience garnered over the past 16 years of Dayton Section volunteering pales in comparison to my gut instinct: good beer makes Board Meetings easier to tolerate. With your vote, my gut and I will be here for another three years.



Office: Alternate Councilor

Candidate: Rachel Jakubiak

Position Title and Place of Employment: Research Chemist, AFRL Materials & Manufacturing Directorate

Education:

Ph.D. in Chemistry, University of Rochester, October 2000

M.S. in Chemistry, University of Rochester, June 1997

B.S. in Chemistry, The University of Michigan, June 1995

Professional Society Affiliations:

Secretary, Dayton Section ACS, 2005-6

Alternate Councilor, Dayton Section, 2007

Statement:

It would be a privilege to continue serving as the Alternate Councilor of the Dayton Section of the ACS. I pledge to bring a church key to all board meetings. In addition, in case the mavericky Councilor goes rogue and refudiates his current "beer makes board meetings easier to tolerate" stance, I'll bring the beer instead. Like George Jean Nathan, I drink to make other people, i.e., board members, more interesting.

Alzheimer's Avoidance Therapy* Unscramble the letters to reveal chemical names, substances, or concepts. Then, use the circled letters to solve the riddle. Answers next edition!

A E L O R S ○ ○ □ □ □ ○
 E J L O U ○ ○ □ □ □
 C H I M M O R U ○ ○ □ □ ○ □ □ ○

A strange creature, wearing goggles, a pocket protector, and a long, horribly stained white coat, scurries through the dark streets and back alleys near the University of London as it is pursued by a curious, bemused crowd. Finding itself cornered this, this, ... this *thing* turns, faces its tormentors and shrieks, " I am not an animal. I am a

○ ○ ○ ○ ○ ○ ○ ○ ○ !”

Answers for Last Edition

TERBIUM TAGATOSE NEON

After barely surviving a financial crisis, the Chem Dept. gathers for their annual Christmas party. Chiming is heard as the drunken P-Chem professor staggers into the ornamented tree, prompting Zuzu, the comely coed/Office Assistant, sitting rather inappropriately in the Department Chair's lap, to exclaim, "Daddy, Provost says, 'Every time a bell rings, an Assistant Professor GETS TENURE!'" "Oh, if that were only true, Zuzu," laments the Department Chair. "If that were only true. Now be a good girl and get us another drink."

AAT-2 – Su Doku for Chemists!

Using the following nine chemical elements:

Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu
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fill in the grid below so that each row, column, and 9-element subcell has only one occurrence of each element.

V							Cu	
Ti	Cu	Mn			Fe			
	Cr		V					
Co				Mn				Cr
						Fe	Sc	Ti
		Fe					Co	
Ni					V			Fe
Mn					Ti			
			Sc		Cu			Ni

Letters to the Editor

Several readers wrote to complain about what they apparently perceived as a casual reference to incest in the last edition's Alzheimer's Avoidance Therapy. Evidently, these Section Members relied on the Merriam-Webster definition of "Daddy," while the Puzzle Master was obviously using the Urban-Dictionary definition. Let me also point out that what some of these distraught readers suggested I do with the *Bulletin* is illegal in 30-some odd states, most of which lie below the Mason-Dixon line.

Smugly,
The Editor

Solution for Last Edition

F	He	Be	B	C	Li	H	N	O
C	H	N	F	O	He	B	Li	Be
Li	B	O	Be	H	N	F	He	C
Be	N	Li	H	He	F	O	C	B
H	O	B	N	Li	C	Be	F	He
He	F	C	O	Be	B	N	H	Li
N	C	F	Li	B	Be	He	O	H
B	Li	H	He	F	O	C	Be	N
O	Be	He	C	N	H	Li	B	F

*Surveys suggest that mental exercises, including word puzzles, may delay the progression of Alzheimer's Disease.