



# THE DAYTON SECTION

*Fostering scientific education and research, and promoting public understanding of science.*

## WEB ADDRESS:

<http://DaytonACS.org>

## DAYTON SECTION OFFICERS

### CHAIR

Dr. Alan Todd Yeates  
255-9138, alan.yeates@wpafb.af.mil

### CHAIR-ELECT

Dr. Hilmar Koerner  
904-5091, hilmar.koerner@wpafb.af.mil

### IMMEDIATE PAST CHAIR

Dr. Rajiv Berry  
255-2467, rajiv.berry@wpafb.af.mil

### SECRETARY

Mr. Jon Slagle  
255-9691, jonathan.slagle@wpafb.af.mil

### TREASURER

Dr. Aaron Sellinger  
255-9111, aaron.sellinger@wpafb.af.mil

### COUNCILOR

Dr. Steven Trohalaki  
255-9593, steven.trohalaki@wpafb.af.mil

### ALTERNATE COUNCILOR

Dr. Rachel Jakubiak  
255-9672, rachel.jakubiak@wpafb.af.mil

## COMMITTEE CHAIRS

### PROFESSIONAL PRACTICES

Dr. Narayanan Venkat  
255-9117, narayanan.venkat@wpafb.af.mil

### PUBLIC RELATIONS

Dr. Gary Kedziora, 904-8241  
gary.kedziora@wpafb.af.mil

### PATTERSON COLLEGE AWARDS

Prof. Al Fratini  
229-2849, albert.fratini@notes.udayton.edu

### PATTERSON HIGH SCHOOL CHEMISTRY AWARDS

Ms. Bonnie Buddendeck,  
bonnie.buddendeck@centerville.k12.oh.us  
Ms. Cindy Hasler: chasler@woh.rr.com

### PATTERSON-CRANE AWARD

Dr. Raymond Dudek  
327-6476, rdudek@wittenberg.edu

### BULLETIN EDITOR

Dr. Steven Trohalaki (contact information above)

### INDUSTRIAL RELATIONS

Dr. Wayne Cook  
259-3162, wayne.cook@kodak.com

### EDUCATION

Dr. Paul A. Fleitz  
255-9656, paul.fleitz@wpafb.af.mil

### INVESTMENT

Dr. Daniel Welna  
904-5094, daniel.welna@wpafb.af.mil

### SECTION CAREER PROGRAM

Dr. Aaron Burke  
255-9572, aaron.burke@wpafb.af.mil

### GOVERNMENT RELATIONS

Dr. Steven Trohalaki (contact information above)

### WOMEN CHEMISTS

Dr. Ruth Pachter  
255-9689, ruth.pachter@wpafb.af.mil

### YOUNGER CHEMISTS

Mr. Kirby A. Underwood  
775-3012, kirby.underwood@wright.edu

### WEBMASTER

Dr. Hilmar Koerner  
904-5091, hilmar.koerner@wpafb.af.mil

### NATIONAL CHEMISTRY WEEK COORDINATOR

Dr. Joy Haley  
255-9718, joy.haley@wpafb.af.mil

## BULLETIN

You Lie Election Edition 2009

### Meetings and Events

October 6: Dr. Warren V. Bush, *"Tell Me About Yourself...": Secrets of a Winning Interview*

October 24: National Chemistry Week Event #1

November 7-8: National Chemistry Week Event #2

November 17: Professional Practices

### Section News and Other Stuff

- Local Undergrads Can Now Participate in the Dayton Section — p 4
- Past Meeting — p 5
- CeRMACS-2010 First Call for Abstracts — p 6
- Dayton Section Election — p 7 (Ballot attached)
- Blood on the floor of Council narrowly averted — pp 8-9
- Quotable Quotes — p 10
- **Alzheimer's Avoidance Therapy** — p 10
- AAT-2: Su Doku for Chemists — p 10

DATE MATERIAL - MEETING ANNOUNCEMENT - DO NOT DELAY

ADDRESS SERVICE REQUESTED

American Chemical Society  
Dayton Section  
4801 Springfield Street  
Dayton, OH 45431

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U.S. POSTAGE PAID  
DAYTON, OHIO  
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# UPCOMING MEETING

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OCTOBER 6

## "TELL ME ABOUT YOURSELF...": SECRETS OF A WINNING INTERVIEW

Where: University of Dayton, Science Center, Rm. 181 (see below)

Parking: Lot C. Get parking permits from the Security Hut. Go to <http://map.udayton.edu/> for more information.

When: Social & Snacks at 6:00 PM; Talk at 6:30 PM

Speaker: Dr. Warren V. Bush



When you begin a job interview, do you get an uneasy feeling in your stomach? Do your hands get cold and your palms start to sweat? Those aren't uncommon experiences, even for experienced job seekers. But when you want to make the best possible first impression, you don't want your interviewer to think he or she is shaking hands with a dead fish. Come and learn how to succeed with confidence in your job interviews and in other workplace interviews.

### About the Speaker

Dr. Warren Bush was a research chemist and chemical engineer with Shell Development Company for 36 years. For much of his career he was the leader of one of Shell's environmental science research and development teams. Dr. Bush earned his B.S. in chemical engineering at Princeton University and his Ph.D. in organic chemistry at California Institute of Technology. He is a 54-year member of the ACS and the AIChE, and has served on the ACS Council Committee on Economics and Professional Affairs. Dr. Bush is an ACS Volunteer Career Consultant and a workshop presenter for the ACS Department of Career Management and Development.

### Abstract

Job interviews are not an examination of your scientific prowess. They are a "getting to know you" conversation. But job interviews do take planning and preparation, which are fairly easy when you consider that, if your résumé is an "advertisement", then your interview places you in the "salesroom". There, in a face-to-face, one-on-one discussion, you sell yourself. And your interviewer--your prospective employer--sells the company. In this talk some useful techniques are presented for selling yourself successfully and understanding the employer's sales pitch. These techniques are adaptable to more types of interviews than just the job interview. When the boss stops by your office -- or worse, when the boss calls you to her office -- does your mind start to wonder "why?", or "why me?" Remembering a few, simple ideas can be of great help in establishing one's peace of mind, and a winning interview.



## NATIONAL CHEMISTRY WEEK EVENTS

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Come celebrate National Chemistry Week (October 18–24) with us at the Centerville Library and/or the Boonshoft Museum of Discovery, where we will highlight this year's theme, "Chemistry – It's Elemental." The elements are the basis of the entire universe, including life on Earth. The elements are an important part of everyday life. They compose the graphite in pencils; the tungsten in light bulbs; neon lights; copper for cooling applications, plumbing, and wiring; the sodium in table salt — the list literally never ends! The year 2009 is the 140<sup>th</sup> anniversary of Mendeleev's Periodic Table of the Elements, so it's a wonderful opportunity to investigate and appreciate the discovery and use of the elements in every aspect of our lives. Please see [www.chemistry.org/ncw](http://www.chemistry.org/ncw) for more information on this year's theme.

### FIRST EVENT

DATE: Saturday, October 24, 2009

TIME: 10:00 AM – 2:00 PM

PLACE: Centerville Library 111 W. Spring Valley Road, Centerville  
(Please see [www.wclibrary.info/locations/index.asp](http://www.wclibrary.info/locations/index.asp) for directions)

COST: This Event is FREE!

### SECOND EVENT

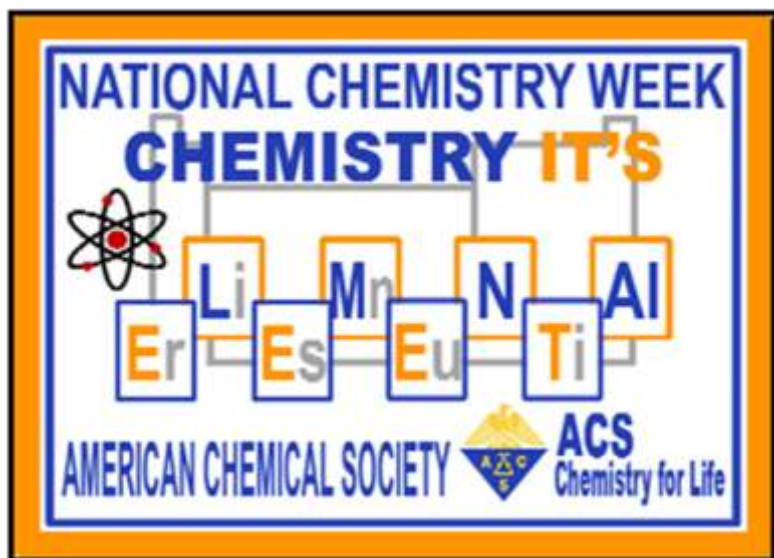
DATE: Saturday, November 7, 2009 and Sunday, November 8, 2009

TIME: 12:00 PM – 4:00 PM (both days)

PLACE: Boonshoft Museum of Discovery, 2600 DeWeese Parkway, Dayton (Please see [www.boonshoftmuseum.org](http://www.boonshoftmuseum.org) for directions)

COST: Admission to Museum is required: \$7.50 per child (ages 2 – 12); \$8.50 for adults; and \$7.50 for seniors (children under 2 are free). Of course, admission is free for members of the museum.

We need volunteers to help the Section with either event. If you are interested in helping out, please contact Joy Haley at:  
(937) 255-9718  
or  
[joy.haley@wpafb.af.mil](mailto:joy.haley@wpafb.af.mil)  
Let me know which day you are available and a time frame.  
Thanks!



## UPCOMING MEETING

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NOVEMBER 17

### PROFESSIONAL PRACTICES

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

Social: 6:00 PM

Dinner: 6:45 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: Dr. Laurence C. Cerny, Dr. D. Gerald Glasgow, Dr. James Joseph Kane, Dr. Carl J. Kershner, Dr. Thomas O. Tiernan, and Mr. Fred W. Vahldiek. Our new 60-year member is Dr. Harris Merl Burte.

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 2010.**

**Reservations:** Contact Venkat by November 10<sup>th</sup> at (937) 255-9116, (937) 255-9117 or at [narayanan.venkat@wpafb.af.mil](mailto:narayanan.venkat@wpafb.af.mil).

### Local Undergraduate Students Can Now Participate in the Dayton Section!

Effective June 2009, all ACS Student Affiliates are now Student Members. Last fall, the ACS membership voted to change the Society bylaws to grant all undergraduates the rights of full membership as Student Members, including membership in ACS Local Sections. *For further details regarding the membership categories changes, please refer to the June 15, 2009 article in Chemical & Engineering News.*

ACS is now actively recruiting undergraduates to become members of the ACS. [Undergrad.ACS.org](http://Undergrad.ACS.org) is the primary recruitment tool staff members have developed for this audience. Please refer students to this Web site if they are interested in joining ACS. The site describes all of the benefits of ACS membership geared specifically for undergraduates. We hope that by bringing in new undergraduate student members, the Dayton Section will benefit from an increase in participation and contributions from the next generation of chemical scientists.

**Don't forget, every new student member you recruit also applies toward our Section's commission claim and the 2009 ACS President's Challenge. Just be sure to have students select the Dayton Section as the referral on the online membership application found on [Undergrad.ACS.org](http://Undergrad.ACS.org).**

We encourage you to reach out to this audience of new members and welcome them into our Section. Additional information can be found at <http://Undergrad.ACS.org>. Feel free to send any questions to ACS Membership Marketing by clicking on "Contact Us," which is found at the bottom of every page on the Web site.

## PAST MEETINGS — THE ANNUAL SECTION PICNIC!

We had a great time at the new location — Indian Riffle Park in Kettering. For the first time, toddlers outnumbered Section Officers! The dogs, burgers, and bratwurst were plentiful. Several Section Members ate way too much and, when it was time to leave, passed out on their way to the parking lot even after discarding clothing that had become too restrictive due to their burgeoning girth. Luckily, some kind Park Rangers, wondering how baby whales could have beached themselves so far from shore, rolled them into the shade and kept their skin moist. The revived Section Members were surely grateful, **although they still insist that Ranger Rick's attempts at mouth-to-blowhole resuscitation** were really unnecessary. Many thanks to Meredith for doing all the shopping and to Steve for doing all the grilling!



So, like, where's the food?



Coed Corn Hole! The fastest growing spectator sport in Ohio (due anticipated wardrobe malfunctions).



Joy inadvertently presents a tempting target for Emily.



Hey! You're falling asleep while I'm talking to you!! Men are all alike!



That is one sweet cookie!



Even Jonathan is surprised by the power of his overhead smash.



Aaron wonders if the next generation of Sellingers will inherit the innovative audacity that led him to use a coat hook as a grill-cover handle.



Rajiv wasn't expecting raspberries when he asked for feedback on his new research proposal.



While paint-on tattoos are prized rewards for good behavior, it's hard to imagine what bad behaviors warrant body piercings.



We're still waiting!

# FIRST CALL FOR ABSTRACTS

## 42<sup>nd</sup> Central Regional Meeting of the ACS

### *CHEMISTRY: REACTING TO PROVIDE NEW TECHNOLOGIES*

June 16-19, Dayton Convention Center and Crown Plaza Hotel  
in Historic Downtown Dayton, Ohio!

#### ***Featured Symposia***

- Computational Materials Science: Theory, Modeling, & Simulation
- Nanomaterials: Synthesis, Structures, Functionalization & Applications
- New Vistas in Biotechnology: Chemistry, Materials & Applications
- Combinatorial Characterization in Nano-Bio Systems
- Chemistry & Materials for Alternative Energy
- Metamaterials
- Chemistry for Peace
- Small Chemical Business Programming
- Materials for Aerospace and Space Applications
- Chemical Education Symposium and HS Teacher Award
- Chemical Information and the Patterson-Crane Award
- Minority Leaders in Nanomaterials Research Workshop
- Traditional areas, such as Organic, Inorganic, Biochemistry, and P-Chem
- Student Poster Sessions

Nano and  
Bio and  
Meta!  
OH MY!!



Go to [CeRMACS2010.org](http://CeRMACS2010.org) for more information and to submit your abstract!

#### ***Pre- and Post-Meeting Attractions***

- Dayton Dragons Baseball at Fifth-Third Field, Downtown Dayton – [daytondragons.com](http://daytondragons.com)
- US Air Force Museum – [www.nationalmuseum.af.mil](http://www.nationalmuseum.af.mil)
- The Dayton Art Institute – [www.daytonartinstitute.org](http://www.daytonartinstitute.org)
- Boonshoft Museum of Discovery – [www.boonshoftmuseum.org](http://www.boonshoftmuseum.org)
- Schuster Performing Arts Center – [www.schustercenter.org](http://www.schustercenter.org)
- Historical Oregon District – [www.oregondistrict.org](http://www.oregondistrict.org)
- Carillon Historical Park – [www.carillonpark.org](http://www.carillonpark.org)
- The Dayton International Peace Museum – [www.daytonpeacemuseum.org](http://www.daytonpeacemuseum.org)
- Paramount's Kings Island (35 miles south)
- And a Plethora of Wright-Brothers Activities – [www.nps.gov/daav](http://www.nps.gov/daav)

## 2009 Dayton Section Elections: Candidate Biographies & Statements

**Office:**

Chair-Elect

**Candidate:**

Vladimir Antonov Benin

**Position Title & Place of Employment:**

Associate Professor, Department of Chemistry, University of Dayton, Dayton Ohio

**Education:**

Ph.D. (Organic Chemistry), Vanderbilt University (1995)

MS (Organic Chemistry), Vanderbilt University (1993)

BS (Chemistry), University of Sofia, BG (1990)

**Professional Society Affiliations:**

American Chemical Society, Member

**Statement:**

None.



**Office:**

Secretary

**Candidate:**

James Paul Carey

**Position Title & Place of Employment:**

Associate Patent Attorney at Wood, Herron & Evans, LLP, Cincinnati, Ohio

**Education:**

B.S. in Chemistry (Physics minor) from Slippery Rock University of Pennsylvania (1995)

M.S. in Organic Chemistry from University of Missouri-Columbia (1998)

J.D. from the University of Dayton School of Law (2008)

**Professional Society Affiliations:**

American Chemical Society

Student Affiliate (1992-1998)

Member (1999-present)

American Intellectual Property Society, Member

Ohio State Bar Association, Member

American Bar Association, Member

CincyIP, Member

**Statement:**

Before becoming a patent attorney, I worked in pharmaceutical research for about 7 years. After graduate school I began my industrial career in Cincinnati working for Hoechst Marion Roussel, which is now Sanofi-Aventis, where I worked in the Chemical Development division. After 4 years in Cincinnati, I took a position with Merck & Co. in Wayne, Pa, where I worked in Process Research for 3 years before ultimately making the career change to patent law.

# REPORT FROM COUNCIL

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I approached Council at the “Fall” Meeting in Washington, DC, with trepidation; if any Council meeting could produce “blood on the floor” (figuratively speaking), this was it. Pitted against each other were two factions. The first, which I dub the Candidate Vectors, want petition candidates for ACS President to be vetted by Council. The second faction, which I call Member-Rights Activists, want to preserve the right of ordinary ACS members to nominate by petition candidates for ACS President.

The MRAs include, as one might expect, include Past ACS Presidents who were nominated by petition. They note that in recent years the CVs have put forth Bylaw Amendments that have sought to make it increasingly difficult for petition candidates, including 1) increasing substantially the number of member signatures required for nomination; 2) decreasing substantially the time during which member signatures can be obtained; and 3) requiring that only a certain number of member signatures can be obtained from any single region.

The CVs insist for several reasons that all candidates for ACS President must come before Council: 1) Public speaking is such a large part of being ACS President, yet Petition Candidates are not required to address Council, almost all of whom vote in presidential elections; 2) The timing of nomination by petition allows petition candidates to view candidate statements put forth by candidates nominated by the the Council Committee for Nominations & Elections (N&E); 3) Candidates put forth by N&E are vetted using a variety of criteria, yet, because they face substantial disadvantages when running against petition candidates, it is increasingly difficult for N&E to recruit qualified candidates; 3) N&E follows an unwritten rule alternately nominating candidates from industry and academia but petition candidates don’t observe this rule so that academic candidates run against candidates from industry, which, in many councilors’ view, is inherently unfair.

To achieve their ends, the CVs put forth the *Petition on Election Timelines and Procedures 2009* for action (it was put forth for “Consideration Only” previously at the Salt Lake City Council, which is the usual course for petition proposals). The MRAs countered with their own petition — *The Petition on Candidate Selection by Member Petition*, which was considered for “Urgent Action” because, if passed, would make moot the CVs petition. The necessity for “Urgent Action” was discussed in details; it requires passage by a three-fourths vote but only 50% of Council voted for it. *The Petition on Candidate Selection* will therefore be up for action at the next Council Meeting at the Spring ACS Meeting.

After a detailed discussion of the *Petition on Election Timelines and Procedures 2009*, a request for a recorded vote (each Councilor’s vote would appear in *C&E News*) was defeated. The Council then voted to recommit the petition to N&E with instructions. Following this action, N&E sought input through a nonbinding survey to help guide their revisions. A revised petition will likely be up for action at Council during the 2010 Spring Meeting. One would think that a compromise could be attained; the timeline for petition candidates should coincide with N&E’s candidate-selection process. This would remove the unfairness charged by the CVs and would allow petition candidates to address Council. Membership should be guaranteed the right to nominate by petition candidates for ACS President. Is such a compromise really so difficult? Can’t we all just get along?

The Council received one other petition for consideration — *The Petition on Admissions Committee*, which removes the Admissions Committee from the Bylaws and transfers its functions to the Council Committee on Membership Affairs. Action is expected on the petition at the 2010 spring meeting.

A report on the rest of the Council meeting in DC is given below (as prepared by the nice folks at ACS).

## Election Results

- The Committee on Nominations and Elections presented to the Council the following slate of candidates for membership on the Committee on Committees beginning in 2010: G. Bryan Balazs, Dawn A. Brooks, Victoria L. Finkenstadt, Wayne E. Jones, Jr., John M. Long, Les W. McQuire, Ingrid Montes, Douglas J. Raber, Frankie K. Wood-Black, and Steven W. Yates. By electronic ballot, the Council elected G. Bryan Balazs, Dawn A. Brooks, Les W. McQuire, Ingrid Montes, and Frankie K. Wood-Black for the 2010-2012 term.
- The Committee on Nominations and Elections presented to the Council the following slate of candidates for membership on the Council Policy Committee beginning in 2010: R. Gerald Bass, Alan B. Cooper, M. Elizabeth Derrick, Thomas R. Gilbert, Lydia E. M. Hines, Willem R. Leenstra, Sally B. Peters, and Carolyn Ribes. By electronic ballot, the Council elected M. Elizabeth Derrick, Thomas R. Gilbert, Willem R. Leenstra, and Carolyn Ribes for the 2010-2012 term.



- The Council Policy Committee presented to the Council the following slate of candidates for membership on the Committee on Nominations and Elections: Roger F. Bartholomew, Dwight W. Chasar, Milagros Delgado, Kevin J. Edgar, John W. Finley, Martin L. Gorbaty, Sharon P. Shoemaker, Walter O. Siegl, Herbert B. Silber, and Ellen B. Stechel. By electronic ballot, the Council elected Dwight W. Chasar, Milagros Delgado, Kevin J. Edgar, Sharon P. Shoemaker, and Ellen B. Stechel for the 2010-2012 term.

#### Candidates for President-Elect and Board of Directors for the fall 2009 ACS national election

##### President-Elect 2010

- Nancy B. Jackson, International Chemical Threat Reduction Department, Manager, Sandia National Laboratories.
- Cheryl A. Martin, Currently on sabbatical; former Corporate Vice President and General Manager, Rohm and Haas.
- Mary Virginia Orna, Professor of Chemistry, College of New Rochelle, New Rochelle, NY

##### Directors-at-Large - 2010-2012

- Dennis Chamot, Associate Executive Director, Division of Engineering and Physical Sciences, National Research Council, Washington, DC
- H. N. Cheng, Research Chemist, US Department of Agriculture, New Orleans, LA
- Ray A. Dickie, Retired, Ford Motor Company, Efland, NC
- Valerie J. Kuck, Retired, Lucent Technologies, Montclair, NJ
- Howard M. Peters, Retired, Peters, Verny, LLP, Palo Alto, CA

##### Director, District I - 2010-2012

- D. Richard Cobb, Senior Research Associate, Eastman Kodak Company, Rochester, NY
- Neil D. Jespersen, Professor of Chemistry, St. Johns University, Jamaica, NY

##### Director, District V - 2010-2012

- Judith L. Benham, Retired, 3M Company, St. Paul, MN
- Peter K. Dorhout, Vice Provost, Colorado State University, Fort Collins, CO

#### Committee Review

As part of a regular performance review, the Council VOTED to continue the Committees on Chemical Safety, Minority Affairs, Chemical Abstracts Service, Technician Affairs, and Analytical Reagents. Continuing the first three committees requires Board of Directors concurrence.

#### Registration Report and 2010 National Meeting Registration Fee

As of August 19, 2009, the ACS fall national meeting had attracted 14,319 registrants — the largest Washington meeting in history. Totals in select categories are as follows: Regular attendees 8,575; Students 3,159; Guests 462; Exhibit Only 676; and Exhibitors 1,447. In keeping with the objective of the National Meeting Long Range Financial Plan, previously approved by the Board of Directors and Council, the Meetings and Expositions Committee recommended to the Board an increase of \$10 for the 2010 national meeting registration fee. The Board will act on this recommendation shortly.

#### Membership Activity

The provisions of the Petition on Membership Categories and Requirements were fully implemented this past June with the transfer of former Student Affiliates to Student Member status, and Associate Members to regular Member status. As of July 31, the Society had 9,732 Student Members – 6,500 of them former Student Affiliates and more than 3,000 of them new Student Members.

#### Dissolution of the Division of Chemical Technicians

At the 2009 spring Council meeting, the Divisional Activities Committee (DAC) reported that it had voted to accept a recommendation from the Division of Chemical Technicians (TECH) that the division disband and to recommend this action to Council in the fall. On recommendation of DAC, as recommended by TECH, the Council VOTED to disband the Division of Chemical Technicians effective December 31, 2009. DAC agreed that TECH has accomplished its mission of enhancing the status of technicians in the American Chemical Society, and now they are integrated into the other technical divisions.

#### Changes to Charter Bylaws for New Local Sections and International Chemical Sciences Chapters and Bylaws for Divisions in Probationary Status

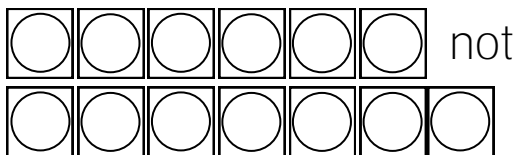
The Council VOTED to accept changes to charter bylaws for new local sections and international chemical sciences chapters, and bylaws for divisions in probationary status. These changes, which were developed in cooperation with the Committees on Divisional Activities, Local Section Activities, and International Activities, are a result of changes to the Constitution and Bylaws made as a result of the Petition on Membership Categories and Requirements, which became effective on June 30.

*Your Faithful Councilor, Steve Trohalaki*

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

DENNOSY    ○ □ ○ ○ □ □ ○  
 DHIMORU    ○ ○ □ □ ○ □ □  
 EENRSTY    ○ ○ □ ○ ○ □ □  
 AIKLNO    ○ ○ □ □ □ □

Professor Connery, spying one of his students in Organic Chemistry Laboratory inserting a magnetic bar into a separation flask, remarks casually, "In order to efficiently extract a simple solute from one solvent into another, the mixture is



**Answers from Last Edition**

UREA CESIUM DIKETENE

Dustin, a young, inexperienced chlorine molecule, is flustered by all the attention paid him by Anne, a sultry, alluring ferrocyanide who has been around the block a few times, if you get my drift. Anne exhales a plume of smoke and laughs at Dustin as he finally arrives at a startling revelation: "You're trying to REDUCE ME, aren't you?"

**Quotable Quotes for \$2000, Alex**

"Intelligence is quickness in seeing things as they are."

—George Santayana

"The power of doing anything with quickness is always prized much by the possessor, and often without any attention to the imperfection of the performance."

—Jane Austen

"Nothing on earth consumes a man more quickly than the passion of resentment."

—Friedrich Nietzsche

"Intelligence is quickness to apprehend as distinct from ability, which is capacity to act wisely on the thing apprehended."

—Alfred North Whitehead

"Speed is a great asset; but it's greater when it's combined with quickness — and there's a big difference."

—Ty Cobb

"How long does it take to find a bra? WHAT'S GOING ON IN THERE? You ask me to get a pair of underwear and I'm back in two seconds!

—Frank Costanza

**AAT-2 — Su Doku for Chemists!**

Using the following nine chemical elements:

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

fill in the grid below so that each row, column, and 9-element subcell has only one occurrence of each element.

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

**Solution for Last Edition:**

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

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