



Chemical Bond

Volume 55
Number 2
February 2004

St. Louis Section, American Chemical Society

The meeting of two personalities is like the contact of two chemical substances; if there is any reaction both are transformed.



-Jung

WCC OVERCOMING CHALLENGES AWARD FOR WOMEN UNDERGRADUATES

The Overcoming Challenges Award acknowledges the efforts of women undergraduates who have overcome economic, personal and/or academic hardships in pursuit of an education in the chemical sciences. The award consists of a plaque, a \$250 honorarium, and \$1,000 for travel expenses to the ACS Fall National Meeting where the award is presented.

Award candidates must be women matriculating as an undergraduate chemical science major/minor in a two-year program or at a four-year school not granting a doctoral degree in chemical related disciplines. Nominations are due May 1, 2004, and should be sent to: Women Chemists Committee, American Chemical Society, 1155 16th Street, NW, Washington, DC 20036. For additional information, contact the WCC at wcc@acs.org or visit <http://membership.acs.org/W/WCC>. You are encouraged to apply and/or nominate deserving women for the WCC Overcoming Challenges Award.

NEW FROM CAREER SERVICES

Begin 2004 with a new online service to enhance your career. Explore Advanced Career Tools (ACT)! These career tools include a free searchable database of nearly 300 articles on topics such as resume writing, interviewing, legal issues, stock, salary negotiations, and more.

You can also take advantage of personal career coaching that will provide one-on-one assistance in areas such as learning to succeed in performance reviews, developing skills in negotiating salary, and obtaining a detailed analysis of your behavioral style. This component of ACT, while a cost item, is discounted for ACS members at below-market rates. Visit <http://chemistry.org/careers> to use ACT.

“WHY IQ IS NOT ENOUGH: SECRETS TO REALIZING YOUR FULL CAREER POTENTIAL”

SPONSORED BY WOMEN CHEMISTS COMMITTEE

This workshop introduces the concept of Emotional Intelligence and explores the crucial link between Emotional Intelligence skills and career success. It provides practical advice for those who easily get “triggered”, and for those who feel like they have to “walk on eggshells” around certain people. Participants will learn the biochemistry behind getting “emotionally hijacked”, and specific techniques to help “cool” down emotions. The course is designed to provide tools to female scientists that will enhance leadership skills and maximize career potential.

Where: ACS National Meeting, Anaheim, CA

When: Monday, March 29, 2004, 9:00 am-4:00 pm

Cost: \$199 per participant (lunch included)

How to Register: Print the registration form from the WCC website at <http://membership.acs.org/w/wcc/> and mail to: Dr. Amber Hinkle, Bayer Corporation, 8500 West Bay Road, MS 18, Baytown, TX 77520-9730.

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Meeting & Seminars

Board of Directors

St. Louis Section–ACS Board of Directors meets on the second Thursday of each month, at the Alumni Center, University of Missouri–St. Louis. Meetings are open to all members, and all are encouraged to attend. Elected officers and chairs of major committees have the right to vote; others in attendance have voice but no vote. If you want to attend the dinner, please contact Bijan Khazai (bkhazai@sentortech.com or 314/497-8629) at least one week prior to the meeting date. The usual cost of dinner is \$15. Members wishing to become active in section activities are welcomed for their first dinner for free, compliments of the section.

Date: *Feb. 12*

Social hour: 5:30 pm

Dinner: 6:30 pm

Business meeting: 7:15 pm

Future meetings: March 11,
April 8, May 13

Synthetic Organic Chemistry (SOC) Discussion Group

The Synthetic Organic Chemistry (SOC) discussion group will hold its second meeting of the New Year on:

Wednesday, February 18
St. Louis University
Lee Lecture Hall 1 (LH1)
(lower level lecture halls,
just next to Chem. Dept.)

and will be also very pleased to host the following speaker on that evening:

Prof. Alexei V. Demchenko
University of MO, St. Louis
*Glycosyl Thioimidates in
Oligosaccharide Synthesis*

Please convene for refreshments at 5:30 pm, general remarks and comments/suggestions from the participants will start at 6 pm, and the presentation will follow.

Parking will be available at the Olive Parking Garage, corner of Olive Blvd. and N. Compton Ave. The lower level lecture halls and Chem. Dept. are located just behind the soccer stadium. If you need directions, contact Olivier Nicaise.

If you are interested in participating, would like to make suggestions regarding the organization or additional activities of the SOC discussion group, or would like to make a presentation at a future meeting, please contact one of the organizers listed below:

Prof. Olivier Nicaise
St. Louis University
(314) 977-2853
nicaiseo@slu.edu

Prof. Kevin Moeller
Washington University
(314) 935-4270
moeller@wuchem.wustl.edu

St. Louis NMR Discussion Group

The St. Louis NMR Discussion Group will feature the following speaker at 4:00 pm in Room 241 Compton Hall at Washington University.

February 23

Jeff Reimer
Univ. of California, Berkley
*Energy From Battery and
Fuel Cells: Traffic and Parking
Problems in the Atomic
Commute*

For more information contact:
Mark Conradi 935-6292 or 935-6418.

University of Missouri- St. Louis

Seminars are held on Mondays at 4:00 pm in Room 451 Benton Hall unless otherwise specified. Refreshments 15 minutes prior to seminar time. (www.umsl.edu/chemistry)

February 9

Thomas Smith
Donald Danforth Plant
Science Center
TBA

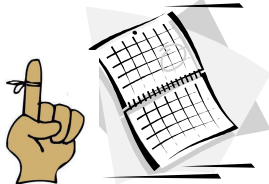
February 23

Sonya J. Franklin
University of Iowa
*Chimeric Metallopeptide
Nucleases: the HTH as a
Scaffold for de novo Design*

St. Louis University

Seminars start at 3:30 pm in Room 204 Macelwane Hall, unless noted otherwise. Refreshments follow. For more information, contact Paul Jelliss, jellissp@slu.edu.

DATES



TO REMEMBER

March 13 - Recognition Night
Glen Echo Country Club

April 18 - Women Chemist's
Luncheon (speaker: Kristin
Bowmen-James)

April 19 - Awards Night
Kemoll's Restaurant

Volunteers Still needed for:

March 8 - St. Charles-Lincoln
County Regional Science Fair

March 20 - Illinois Junior
Academy of Science Fair

April 16 - Greater St. Louis
Science Fair

May 4-5 - Career Awareness Fair

Washington University

Seminars are in McMillen 311 at 4 pm unless otherwise noted. Coffee is available 20 minutes prior to the talk, and refreshments follow. For information, contact:

Amy Walker
walker@wuchem.wustl.edu
An up-to-date list of seminars is
available at:
[www.chemistry.wustl.edu/
~seminars/seminars.html](http://www.chemistry.wustl.edu/~seminars/seminars.html)

The Debate Continues

by Jack Bornmann

When I started the column for the January issue I almost made an error with the word Nostratic. At first, I thought the name of the hypothesized primitive language was Nostradic not Nostratic. When I heard the word it sounded like Nostradic to me and the Latin roots of noster and dictum leaped out at me. (I like my name better.)

Letters & More

Why did I not hear the word correctly? Say *duh* and *tuh*. There is a very slight difference in the position of the tongue. It is so slight I had to repeat *duh* and *tuh* many times before I noticed that when saying *tuh*, the tongue rests behind the upper incisor

teeth. With *duh* the tongue is between the upper incisors and the soft palate of the upper mouth. Thus, I made a mistake and subsequently learned something. This is another example of how languages can slip into a different form over time.

By the way the hypothesized Nostratic dictionary now has over 600 words in it.

The pronunciation of consonants may give us a clue to the manner by which words shift within a language or between two related languages. In German the consonant *v* is pronounced liked an *f*. For example the *volk* in Volkswagen is pronounced *folk*. If you know your German history, you know that the Volkswagen was developed under the Nazi regime as an inexpensive automobile for the people, i.e. the folk.

How did the sound of a *v* slip into an *f*? Try this. Say *fu* and then *vu*. Notice that your teeth do not

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Laboratory Notebook: You Mean It Has Legal Significance?

Sadiq Shah

Office of Technology Transfer
Western Illinois University

The dates of the *conception* of an invention and its *reduction to practice* are critical in determining not only when the discovery was made, but also who came-up with the idea first. When would you need this information? It may be required to address issues such as a publication appearing in print less than one year prior to the filing date of a patent application. The goal of a laboratory notebook is to demonstrate that the invention was made prior to the publication date. Sometimes, not often, one does encounter situations where two independent inventors make the same patent claims in separate patent applications. Uncorroborated testimony by inventors is not considered valid proof. A laboratory notebook becomes the legal document that can be presented in a court of law as documentary evidence. The notebook must be bound, dated, and all entries must be legible and have sufficient details provided so that anyone can follow the description and reproduce the results. Additionally, someone who is not a co-inventor must witness the notebook pages.

Stay tuned for more on these topics and associated ownership rights in future Chemical Bond issues.

Call for Nominations for Midwest Regional Award

The ACS Midwest Regional Award, established in 1944, recognizes outstanding achievement in chemistry done in the midwestern region of the United States. To be eligible, a nominee must have performed the cited work while residing within the Midwest Region of the ACS. (The nominee does not have to reside currently within the Region.) Nominations must include a nominating letter, two or more seconding letters, a curriculum vitae, a brief biography, and documented, objective information regarding the outstanding achievements of the nominee. If the nominee is an academician, a list of persons who have received advanced degrees under his or her direction should be included. Please submit nine copies of all nomination material to:

Jim O'Brien
Department of Chemistry
University of Missouri - St. Louis
8001 Natural Bridge Rd.
St. Louis, MO 63121-4499
314/516-5717
obrien@jinx.umsl.edu

**Nominations must be received on or before the deadline of March 31, 2004.*

St. Louis Public Schools 21st Career Awareness Fair

Volunteers still needed for the St. Louis Public Schools Career Awareness Fair to be held at the America's Center - Hall 3, Tuesday-Wednesday, May 4 and 5, 2004 from 8 AM to 2 PM. Come join in and invest in a world-class workforce by sharing your career as a chemist with 8th grade students. This Fair reinforces the Missouri Assessment Program (MAP) by showing students how the things they learn in school are applied in the work environment. You can share your work experience with these young future chemist. For more information or to volunteer, please contact Greg Wall, ph: 800-325-5832 ext. 3139 or e-mail: gwall@sial.com. Hope to see you at the Fair!

Science Fair Call for Judges

Science Fair season is just around the corner, and so is another opportunity for you to encourage an understanding of good science by participating as a Science Fair judge. Members of the ACS St. Louis Section are needed as judges to evaluate chemistry projects for special awards at regional science fairs in the greater St. Louis area. Secondary-level winners receive prizes from the section (science books and more), while all elementary-level participants with chemistry-related projects receive ribbons. Everyone (kids and judges) wins in other ways as well.

This year, the judging times are as follows:

St. Charles-Lincoln County Regional Science Fair

Monday, March 8th, 6:00 PM at St. Charles Community College

Illinois Junior Academy of Science Region 12 Science Fair

Saturday, March 20th, 9:30 AM at SIU-Edwardsville

Greater St. Louis Science Fair

Friday, April 16th, 6:00 PM at Greensfelder Pavilion at Queeny Park

Interested in judging? Please contact David Haselbauer:

phone: (314) 918-1062

email: djhase@swbell.net

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move, nor does your tongue shift. The difference lies in the puff of air that is expelled when you say *fu*h and the puff of air sucked into the mouth when you say *vu*h.

In German the w is pronounced like a v in English. The interesting word “Volkswagen” is not a folkswagon when said in German. It is pronounced *folksvagen*. Why is a double-u pronounced as a v? I am not sure, but I do notice that a w is not really a double-u; it is a double-v!

While we are discussing consonants, consider the j. I, of course, know how to pronounce John in English. But the German name equivalent to John is Johann and it is pronounced Yo-hahn. In French Jean is pronounced something like zhahn. In Spanish the j is pronounced like an h, as in Jose (hoe-zay) and Jesus is hay-soos.

I was listening to a book on tape about Peru and Chile. The speaker mentioned a yama. I repeated that section of tape and confirmed that the word definitely was yama. I won-

dered if it was a special kind of yam. Unfortunately I was unable to identify the thing by the context of the sentence. About a month later, I suddenly realized that the speaker was pronouncing llama as yama. I had learned that in Spanish the ll is pronounced as a y, but I have never heard anyone call a llama anything other than lama. I had a friend in Canada who raised llamas and he always called them lamas and he liked to talk about his llamas. I wrote to him about my problem and he responded that English speaking people and everyone else he knows of calls the animal a lama. However, he added that the natives up in the Andes call the animal a yama.

Linguists studying the relationships between different languages and seeking an original language must consider all the different consonant pronunciations. I have not even mentioned the differences in vowel pronunciation.

Pick up

rotating

Mass-Vac ad

from p. 9 of May 2003

Hats Off to Pfizer



The St. Louis Section of the American Chemical Society would like to thank Pfizer-St. Louis for their generous monetary donation. Since acquiring Pharmacia in April of 2003, Pfizer has demonstrated warm corporate citizenship in the St. Louis area. We look forward to a long, cooperative relationship with our newest neighbor.

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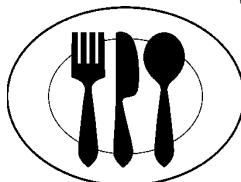


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Recognition Night

New 50-year members honored, presentation of the
Distinguished Service Award, Past Chair recognition and address.
Come for an enjoyable evening. Spouses welcome!

Date: March 13 6:00 pm
Location: Glen Echo Country Club
3401 Lucas & Hunt Road
St. Louis, MO 63121
Cost of dinner: \$20.00 per person
Reservations:
Samir El-Antably
P.O. Box 50168
St. Louis, MO 63105
(314) 664-5522



* make checks payable to: St. Louis Section - ACS
Please make your reservation by March 10.

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