

The Chemical Record

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Columbus Section of the American Chemical Society, Inc.

www.acscolumbus.org

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Tour Ashland Chemical's Technical Center

Come see Ashland Chemical's Technical Center at our combined meeting with the American Institute of Chemical Engineers.

The meeting will be at Ashland Chemical in Dublin on Tuesday, December 12.

For dinner reservations, try our automated reservation online at www.acscolumbus.org, or email Marcella Gibbs at mgibbs@cas.org.

Full details on page 4.

New Web Address, *The Chemical Record* Available Online

Now you can access the Columbus Section's web page with a simple address: www.acscolumbus.org, as well as access our newsletter online.

See page 4 for details.

Section News

AMERICAN CHEMICAL SOCIETY COLUMBUS SECTION

MINUTES OF THE EXECUTIVE COMMITTEE MEETING

October 17, 2000
Chemical Abstracts Service
Columbus, Ohio

Voting Members Present: James Cowan,
George Greene, Jodie Harper, Terry
Huston, Ed King, Mark Fischer, Joel Rosen-
field, Don Songstad, Virginia Songstad

Non-voting Members Present: Bill Catus, Lee
Cherney, Dale Hannen, Mike Miller, George
Noetlich

Guest(s): Attila Pavlath

Call to Order: 4:40 p.m. A quorum was
present

Approval of Minutes: The minutes were
approved as written.

Treasurer's Report: Items brought for discus-
sion included:

- It was confirmed that the deposit of \$100 in the State Science Fair account was from a donation in response to the request for funding sent to the other Ohio ACS chapters. The treasurer's report was approved as written.

Old Business:

- Virginia Songstad confirmed that a check in the amount of \$100 was issued to Meg Franks as approved previously by the executive committee.
- Ed King reported \$2,478.69 previously reported as seed money for the next Central Regional Meeting is actually the Columbus chapter's contribution for the next Central regional Meeting.

New Business:

Items brought for discussion included:

Bill Catus reported concerning the completion of the nomination process for chapter officers for the upcoming year. Bill reported that at least 40-50 people were contacted in the course of establishing the slate, and the ballots have been mailed to members on schedule. There was a discussion concerning one-candidate elections (which would void the election according to the Section's by-laws) and the possibility of providing membership dues incentives for elected officers.

Paperwork has been received from National ACS for employee dishonesty insurance. This policy is offered at no charge as long as paperwork is submitted by November 1st. George Greene will submit the necessary forms.

Preparations for National Chemistry Week are proceeding according to plan under the leadership of Karen Toplek. George Greene reporting on behalf of the NCW committee reported that there are sufficient numbers of volunteers for the main library activity and that volunteers are still needed for the International Festival.

Jodie Harper reported from the National ACS meeting that she has been selected to chair a joint task force between the Younger Chemists Committee (representing members <35 years of age) and the Membership Affairs Committee, of which she is an associate member. Discussions at the first meeting of that committee included the difficulty in converting student members to full membership at graduation and high school teacher's activities.

Don Songstad reported an error in the Chemical Record concerning student fees for the upcoming dinner meeting.

(Continued on page 6)

Section News

ACS Government Affairs Activity

submitted by Manfred Luttinger

In a brief ceremony at the Ohio State House during National Chemistry Week, State Senator Charles F. Horn was honored with a plaque of recognition for his long and solid support of the science and technology community in Ohio.



From left: David Schutt, Senator Charles Horn

His efforts have advanced the cause of science and technology in the state during his distinguished service in the Ohio Senate, and his support of science education will have especially far reaching beneficial effects.

Science and technology are the foundation of a growing and healthy economy which provides increasing job opportunities. Science teaching lies at the core of an informed future citizenry and rejuvenation of an internationally competitive research and engineering work force.

The plaque was handed over to Senator Horn by David Schutt, Director of the ACS Legislative and Government Affairs office in Washington. The Columbus Section was represented by Mark Fischer, Karen Toplek, Maria and Steve Rosenthal, Pat Connick, Craig Kelley and Manfred Luttinger.

Senator Horn thanked the ACS for this recognition. His plans are to remain active on issues of technology-based economic policy especially as this relates to Ohio and the surrounding states.

Along this line, he is considering the creation of a Center for Regional Economic Development. We offered the ACS's assistance in science related matters and wished him luck in his new endeavors.

PART-TIME POSITION at OTTERBEIN COLLEGE

Chemistry Laboratory/Stockroom Manager. Available 1 January 01. BS in chemistry required, advanced degree preferred. Please send a brief statement of interests/ qualifications and resume to

Sam Ramirez
Director of Human Resources
Business Office
One Otterbein College
Westerville, OH 43081
SRamirez@otterbein.edu
614/823-1130

Local ACS Member Received CCR'S Malcom E. Pruitt Award

From CCR Press Release¹

WASHINGTON, DC Liang-Shih Fan, Distinguished University Professor and Chairman of the Department of Chemical Engineering at Ohio State University, will receive the Council for Chemical Research (CCR) 2000 Malcolm E. Pruitt Award. The award will be presented at a banquet on Sunday, September 10, 2000 during CCR's Annual Meeting in

(Continued on page 5)

Meeting #766, Tuesday, December 12

Ashland Chemical Company, Inc.
5200 Blazer Parkway
Dublin, Ohio 43017
614-790-3333

6:00 pm Tour: Tour of Ashland Chemical's Technical Center.

7:30 pm Dinner: Choice of Honey Dijon Chicken OR Garlic Pasta, Green Beans, Bread & Rolls, Sherbert w/ Cookie.

Cost: \$16.00. Emeritus members, unemployed members \$14, and students are \$5.

Reservations: Please phone Marcella Gibbs at 447-3600 x2721 or email mgibbs@cas.org or reserve online at www.acscolumbus.org by 3:00 pm Thurs., Dec. 7th. Please indicate retired/unemployed/spouse/student status and affiliation when making reservations. Also please indicate your entree choice. To cancel a reservation, please call Marcella by 12:00 PM Friday, Dec. 8th. No cancellations can be accepted after that time. Uncancelled reservations must be paid. Early reservations are appreciated.

Executive Meeting: A business meeting will be held at Ashland Chemical Company at 4:30 on the day of the meeting in Conference Room 1H. Please sign-in at the Main Reception Desk (in the building with the flag poles in front). Any section member is welcome to attend the business meeting.

Directions: To get to Ashland Chemical Company, take 270W to Dublin, exiting at US 33E. Go EAST to first stop light and turn RIGHT at FRANTZ ROAD. Travel ~0.5 mile to third stoplight and turn RIGHT at BLAZER PARKWAY (Paul G. Blazer Memorial Parkway). Follow road to Ashland Chemical, turning RIGHT at the second entrance. Enter at the main building (the building with the flag poles in front.).

The Chemical Record Online

Need information about our local section, or just curious about when the next meeting is to be held? Try the Columbus Section's web site, now with a new address:

www.acscolumbus.org

In addition to a meeting calendar, committee chair listing, and news within our organization, your web site contains an Online Dinner Reservation Form that is available for every meeting, an on going project to build a memorial to Kurt L. Loening, and a state map that shows the counties included in the Columbus Section.

Also, beginning with this issue and as an added convenience to you, *The Chemical Record* can be accessed online in Adobe's PDF format. The electronic version of our newsletter will include color photos and links to other sources.

(Continued on page 11)

(Member Wins from page 3)

New Orleans.

The Pruitt Award, established in 1985, recognizes outstanding contributions to the progress of Chemistry and Chemical Engineering by promotion of mutually beneficial interactions among universities, the chemical industry, and government. The award consists of an engraved crystal plaque and a check for \$5,000 to support institutional and research activities. Dr. Fan will donate his check to the Ohio State University Department of Chemical Engineering.

Dr. Fan was selected for the Pruitt Award for his contributions to promoting the use of fundamentals to solve industrially relevant problems, and for advancing the understanding of fluidization, fluid particle systems, and particle technology. He holds four patents, and is the principal inventor of a patented process "OSCAR" for flue gas cleaning in coal combustion.

He is the Project Director for the OSCAR commercial demonstration currently taking place at Ohio McCracken power plant. His fundamental and applied research has directly contributed to the design and operation of several commercial processes involving fluidized bed combustion, polyethylene, maleic anhydride and acrylonitrile production, methanol synthesis, and white pigment processing.

His entire career has been devoted to leading, promoting, and fostering industrial-academic-government laboratory collaboration. He worked as a Research Engineer at Amoco Research Center, Argonne National Laboratory, DOE/Pittsburgh Energy Technology Center, and DOE/Morgantown Energy Technology Center.

He served as a Technical Leader in the ANL/Midwest Universities Consortium's Multiphase Flow Institute, and as a consultant to 20 corporations and national laboratories,

including Exxon, Shell, DuPont, Union Carbide, ANL, and PETC.

Dr. Fan has authored or co-authored three books, and published 230 journal papers and 190 conference papers. He serves as the U.S. editor of Powder Technology and as a consulting editor for six journals. He has received numerous awards in recognition of his research, teaching, and service, and is a Fellow of AAAS and AIChE.

The Council for Chemical Research includes more than 200 companies, universities, and government laboratories that conduct research in the chemical sciences and engineering. CCR is dedicated to advancing research in chemistry, chemical engineering, and related disciplines through leadership collaboration across discipline, institution, and sector boundaries.

¹Please see www.ccrhq.org/news/ for details. Dr. Fan was also mentioned in C&E News, October 23, 2000.

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(Minutes from page 2)

Students are charged \$5 and not \$14 as published.

Virginia Songstad reported that a letter has been received from the CTC (Columbus Technical Council) thanking the [the local section] for its donation of \$150 and requesting funding for Circleville.

James Cowan reported that he has already begun the process of setting up the programs for the next year.

Attila Pavlath, President-Elect of the American Chemical Society addressed the executive committee with a preview of his evening's speech, challenging the local sections to focus on their memberships' interest and not to be afraid to try something different. He referred to the local sections as the "Bloodline of the ACS" and pledged support for local initiatives.

Announcements:

James Cowan reported that a request has been made for an attendance estimate for the joint meeting with the AIChE, which will be held December 12 at the Ashland Chemical Technical Center (tour and meeting). The AIChE will supply an ad for the event.

Mark Fischer reported that the Boy Scout Merit badge for Chemistry session will be held on Nov. 21 from 8:30am to 1:00pm. Contact EWBadger@Ashland.com for details.

Adjournment: Meeting was adjourned at 5:30pm.

Respectfully submitted,
Joel Rosenfield
Secretary



Patterson–Crane Award Nominations Needed

submitted by Ed King

Nominees for the 2001 Patterson–Crane Award are being sought by the Dayton and Columbus, Ohio Sections of the American Chemical Society. The biennial award, consisting of a \$2000 honorarium and a personalized commendation, is given in honor of Austin M. Patterson and E. J. Crane, previous editors of Chemical Abstracts.

An international honor, the Patterson–Crane Award acknowledges outstanding contributions to the field of chemical information, including the design, development, production or management of chemical information systems or services; electronic access and retrieval of chemical information; critically evaluated data compilations; information technology applications in chemistry; or other significant chemical documentation.

Nominations for the award must be in writing and should discuss the nominee's contributions to the field and provide an evaluation of accomplishments. Materials supporting the nomination should include a biography and bibliography of publications and presentations relevant to the award. Seconding letters are required.

Send on copy of the nomination materials to:

The Patterson–Crane Award Committee
Melinda Greer, Chair
University of Dayton
Chemistry Department
300 College Park
Dayton, Ohio 45469-2357

Materials must be received by January 31, 2001. For more detailed information, see the ACS Dayton Section web page (<http://www.udayton.edu/~acs>) or contact Melinda

(Continued on next page)

Greer at (937)229-2666.

held in Dayton, Ohio.

Nominations will be judged by a seven-member selection committee consisting of Dayton and Columbus Section members as well as the Chair of the American Chemical Society Division of Chemical Information.



The 2001 Patterson–Crane Award will be presented May 8, 2001 at an awards dinner to be

Welcome New Members!

submitted by Ron Haney

The Columbus Section would like to welcome the following new members:

Prakriti Basak
Rafil Basheer
Raynauld Bishop
Xiaodong Bu
Jeff Cafmeyer
Charla Centrone
Wan Yong Feng
Jeong Seok Han

Matthew Hogge
Elizabeth Hommel
Eun Kyoung Kim
Elizabeth Kujawinski
Roman Kultyshev
Tae-Dong Kwon
Nikolay Lebedinskiy
Patrick McCarren

Bridget Miller
Gim Yang Pee
Amanda Ross
Jennifer Sawchuk
David Scott
Rick Watson
Manfred Winnewisser

So that we can get to know our new members better, we would like to extend an invitation to these people to attend one of our dinner meetings. This will be at no cost to you for your initial meeting only. If you have not already received one, a letter will be sent to you soon with the details of this offer.

You can contact Ron Haney (Membership Chairman) at 764-6551 to make a reservation (also Marcella Jervis at 447-3600 x2474) at least one week prior to the meeting.

The next scheduled meeting is December 12 at 6 PM. If this meeting does not fit your schedule, please call so that we can reserve you a place at one of our future meetings.

Again, Welcome!

National Chemistry Week 2000 Gets Cooking in Columbus

by Steven and Maria Rosenthal

The ACS Columbus Section celebrated National Chemistry Week (NCW) 2000 in grand style, during the week of Nov. 5-11, with a variety of events for chemists of all ages and others interested in learning more about chemistry.

and it offered many opportunities to explain the connections between chemistry and cooking. “Get Cooking With Chemistry”, a booklet with activities for elementary and middle school students contains investigations that focus on chemical reactions that occur during cooking. *ChemMatters*, a magazine for high school students, also features articles about the chemistry of food in its October issue. These booklets were distributed at all the NCW events.

This year’s theme was “Kitchen Chemistry”,

(Continued on next page)

(Get Cooking from previous page)

The NCW activities started at the Columbus International Festival, on Sat. Nov. 4, where NCW had a booth. Pat Connick brought a computerized pH sensor system that we used for measuring the acidity and basicity of various foods and other household items. Jeff Trent, Maria and Steve Rosenthal also did demos with red cabbage indicator solution and extracting the iron out of Cheerios. Thanks to Jeanne Jones and Karen Toplek for helping at the booth.



Pat Connick, visitors at the International Festival

On Monday, NCW held a Science is FUN!! event at COSI, featuring Dr. Bassam Shakhshiri, recognized worldwide as a leader in Chemical Education. Dr. Shakhshiri presented two EXPLOSIVE, High Energy demonstrations. Timed reactions, exploding color changes, and glowing chemiluminescence took center stage at both presentations. Teachers, students, parents, and all those who believe that "doing science" can be unbelievably exciting and fun were invited! The morning presentation was 10:30 to 11:45 AM, followed by a teacher question/answer session. The evening presentation, from 7:00 to 8:45, was followed by a book signing and reception.



Prof. Bassam Shakhshiri at COSI

Other chemistry activities going on at COSI Columbus during National Chemistry Week included COSI's new show, CHEMISTRY LIVE! on the Gadgets stage, and hands-on activities from COSI On Wheels.

In recognition for his dedication to furthering Science and Technology in Ohio, especially within the Ohio Legislature for more than 15 years, Sen. Horn was honored in a ceremony at the State Capitol Atrium, on Wednesday, November 8, 2000 at 12:00 Noon. The ceremony was part of the celebrations of National Chemistry Week.

Sen. Horn chairs the Senate's standing committee on Economic Development, Technology and Aerospace. In addition, Senator Horn chairs the Economic Development Study Advisory Committee (EDSAC), charged with analyzing the state of Ohio's economic development incentive programs. He also represents the Senate on the Industrial Technology Enterprise Advisory Committee.

As a leader in Science and Technology issues, Sen. Horn has addressed members of the American Chemical Society at State Capitol Day events in May, 1998 and June, 1999. The topics discussed include Science Education and Curriculum in Elementary and High Schools, funding or research and technology

(Continued on next page)

development at State Universities, and Environmental Policy issues affecting Ohio.

Hands-on activities with the traveling lab of COSI, Simply Chemistry! took place at Center for Discovery in the Columbus Metropolitan Library Main Branch, Sat. Nov. 11, 10 am to 4 pm. We had 41 volunteers helping the more than 220 children and their parents to do the activities. Many thanks to George Greene for coordinating this terrific event. Everyone was very appreciative and complimentary, including the library staff members, who have already asked us to return next year.



ACS members helping students with environmental chemistry demonstrations

The unifying event for NCW 2000 was "Chemists Reacting to Hunger", a community food drive. A food collection drive was held at CAS and in conjunction with the Library event. The drive at CAS netted 814 pounds of food equivalent to 1628 meals, which was sent to the Mid-Ohio Food Bank. The National Chemistry Week Committee wishes to thank



all those who contributed for their generosity. (Bottom left: Student shares chemistry experience with photographer.)

Announcements

Future City Competition

submitted by Jerry Boone

How will our cities build, grow, and evolve in the future? Will they be more liveable, clean, and green ecospheres, or become abandoned and neglected, crumbling edifices?

Come and judge for yourself on January 20, 2001 at COSI. The "Future City Competition" is based on the computer program *SimCity 2000*, which students used to generate their visions of future cities and prepare a presentation on what they think cities should become.

JUDGES ARE NEEDED! Please contact Dr. Lucile Decker at (614)447-3600 x3459 to volunteer.

Technical Person of the Year Award

QUALIFICATIONS

Any member of a society belonging to the Columbus Technical Council shall be eligible for the award, except those who have already received it.

CRITERIA FOR AWARD

Character: The nominee shall be of unblemished character and of high moral and intellectual integrity.

Competence: The nominee shall have shown outstanding knowledge, skill, diligence and judgment in performing professional tasks.

Service to Profession: The nominee shall have contributed to his or her profession by service to technical societies or by other actions beyond the execution of daily tasks.

Community Service: The nominee shall have demonstrated interest in the community by

(Continued on next page)

service on civic, school or other committees.

SELECTION

Each local section of a society belonging to CTC may each year select, by means agreeable to it, one nominee for this award. It is also permissible to have two or more member societies together nominate one individual. A previously nominated person can be nominated again.

It is the local sections responsibility to submit three (3) copies of a brief on its nominee, showing by means of the best possible evidence how its nominee meets the criteria outlined above. The brief should include a photograph of the nominee and up to three (3) letters of recommendation.

The judges shall, on the basis of the brief submitted, and by such other inquiry as they deem necessary, pick one of the nominees as the CTCs Technical Person of the Year for this year. As a guide to the means of selection, the judges score nominees on a 0-40 scale; with up to 10 points assigned to each criteria of *Character, Competence, Service to Profession, and Community Service.*

The most exciting phrase to hear
in science, the one that heralds
new discoveries,
is not "Eureka!" (I found it)
but "That's funny..."
Isaac Asimov

Obituary

Richard D. Hanks

taken from CAS Announcement¹

CAS offers sincere condolences to the family and friends of Richard D. Hanks, who passed away on November 16, 2000.

Mr. Hanks had been a members of the CAS family since 1948 and retired in 1980. At the time of his retirement, Mr. Hanks worked in the Applied Chemistry Department.

A memorial service [was] held on Monday, November 20 at 1:00pm at Overbrook Presbyterian Church.

In lieu of flowers, those who wish may make contributions to Easter Seals Rehabilitation Center, 565 Children's Dr. West, Columbus, Ohio 43205 or to Overbrook Presbyterian Church, 4131 N. High Street, Columbus, Ohio 43214.

¹From a Chemical Abstracts Service intracompany announcement on November 20, 2000

The Chemical Record

(Online from page 4)

E-mail news, announcements, letters, opinions, etc. to chemrecord@cas.org

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Editor: Stephen A. Renner, CAS (447-3600 x2449, srenner@cas.org)

Business Manager: Mohammed Khan, CAS (447-3600 x3298, mkhan@cas.org)

Mail items to Stephen A. Renner, Dept. 67, CAS, 2540 Olentangy River Rd., Columbus, OH 43202.

The submission deadline for the February issue is January 17.

Send address changes/name removals to Ron Haney, Membership Chairman (haneyro@witco.com, 764-6551). Ron Haney maintains the mailing list. Address labels are printed by Mike Miller.

Address advertising correspondence to

Mo Khan, Business Manager,
The Chemical Record,
CAS, POB 3012,
Columbus, OH 43210-0012

Tel. 614-447-3600 x3298,
Email mkhan@cas.org

As you may well be aware, The Chemical Record has significant publishing and mailing costs. To cut costs, we have been able to "hand deliver" copies of the newsletter to several organizations where many section members work, namely Ashland Chemical, Battelle, Chemical Abstracts Service, Ohio State University, and Witco.

If you work at one of these organizations and are interested in receiving the newsletter there instead of your home address, please fill out the form.

For all our other members who are interested in a similar type of delivery, please let us know via the form.

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Columbus Section Of The
AMERICAN CHEMICAL SOCIETY, Inc.
CHEMICAL RECORD
P.O. Box 82181,
Columbus, OH 43202

Local Section ACS Officers.

Chair: Mark Fischer, CAS (447-3600 x3351), mfischer@cas.org

Chair-Elect: James Cowan, OSU Chemistry Dept. (292-2703), Cowan.2@osu.edu

Secretary: Joel Rosenfield, Coca Cola (492-6418), jrosenfield@na.ko.com

Treasurer: Virginia Songstad, Columbus (263-3858), songstadv@aol.com

Treasurer-Elect: George Greene, Ross Laboratories (624-3362), George.Greene@RossNutrition.com

Immediate Past Chair: Don Songstad, CAS (447-3600 x2157), dsongstad@cas.org

Councilors: Jodie Harper, SEGO International, (614-276-9952), jodie@segointernational.com;

Terry Huston, CAS (447-3600 x3354), thuston@cas.org; Jerry Timmons, The Scotts Company
(937-644-7260), Jerry.Timmons@ScottsCo.com

Alternate Councilors: Thomas A. Evans, Denison University (740-587-6496), evans@denison.edu

Ed King, CAS (447-3600 x2750), eking@cas.org

Maria Rosenthal, CAS (447-3600 x3578), mrosentha@cas.org