



THE DAYTON SECTION

Fostering scientific education and research and promoting public understanding of science

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http://www.udayton.edu/~acs/

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NATIONAL CHEMISTRY WEEK COORDINATOR

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BULLETIN**Election Issue 2004**

October 5: Dr. Kash Mittal, will present *Adhesion Science: Recent Developments, Unsolved Problems, and Prospects*

October 17-23: Celebrate National Chemistry Week with this year's theme, *Health and Wellness*

October 21: Prof. Larry Dalton will speak on *Nanotechnology and Organic Electro-optic Materials* at the University of Dayton

October 22: P&G Lectureship featuring Prof. Ronald Breslow presenting *Polymers as Enzyme Mimics* (see enclosed flyer).

November 16: Professional Practices Meeting; Join us in honoring our newest 50-year members!

Section Elections: See pp 4-6 for candidate biographies and statements. Ballots (pg 7) are due by November 15.

Call for Nominations for the Patterson-Crane Award

DATE MATERIAL - MEETING ANNOUNCEMENT - DO NOT DELAY

NON-PROFIT ORG.
U.S. POSTAGE PAID
DAYTON, OHIO
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American Chemical Society
Dayton Section
Eugene M. Kettinger Center
140 East Monument Avenue
Dayton, OH 45402-1267

UPCOMING MEETINGS

OCTOBER 5:

“ADHESION SCIENCE: RECENT DEVELOPMENTS, PROBLEMS, AND PROSPECTS”

Speaker: Dr. K.L Mittal, Editor, *Journal of Adhesion Science & Technology*

Time: 10:00 AM

Place: Air Force Research Lab, Materials & Manufacturing Directorate, 3005 Hobson Way, Building 653, Room 109, Wright-Patterson AFB (Area B).

See the previous issue of the *Bulletin* for speaker biography and abstract.

Contact Dr. Narayanan Venkat at 255-9117 or at narayanan.venkat@wpafb.af.mil to arrange access to WPAFB and to make reservations for the post-seminar lunch.

OCTOBER 21:

“NANOSCIENCE/NANOTECHNOLOGY AND THE RATIONAL DESIGN OF NEXT GENERATION ORGANIC ELECTRO-OPTIC MATERIALS AND DEVICES”

Jointly sponsored by the Materials & Manufacturing Enabling Technology Series

Speaker: Professor Larry Dalton, Department of Chemistry, Washington University

Times: 6:00–7:30 PM Registration, Poster Exhibits, Social
7:30–8:30 PM Presentation

Place: Miriam Hall, O’Leary Auditorium, University of Dayton (see back page for map)

See the previous issue of the *Bulletin* for speaker biography and abstract.

OCTOBER 17–23:

NATIONAL CHEMISTRY WEEK

This year’s theme is *Health and Wellness*. Contact Dr. Susan Marine at (513) 727-3377 or mariness@muohio.edu for details.

NOVEMBER 16:

PROFESSIONAL PRACTICES

The Dayton Section traditionally honors those members who have attained 50 years of membership in the American Chemical Society. This year, four members have attained this status. Each will receive an official ACS plaque of recognition and will be invited to address the Dayton-Section membership at a dinner meeting. Election results will also be announced.

Tentative time and place are 6:30 PM at The Wellington Grill on Dayton-Xenia Road (Old 35), east of Beavercreek High School. To make reservations, contact Dr. Narayanan Venkat at 255-9117 or at narayanan.venkat@wpafb.af.mil.

Call for Nominations: The Patterson-Crane Award

The Dayton and Columbus Sections of the American Chemical Society sponsor the Patterson-Crane Award for contributions to chemical information. It is international in scope and given in honor of two outstanding members of the Sections: Austin M. Patterson (1876–1956) and E.J. Crane (1889–1966). The biennial award consists of a \$2,000 honorarium and a personalized commendation. The award is funded by a bequest of the Patterson family to the Dayton Section, by the Helen G. Crane Fund of the Columbus Foundation, and by the Patterson-Crane Award Fund of the Columbus Section.

The Austin M. Patterson Award was established in 1949 by the Dayton Section to acknowledge meritorious contributions in the field of chemical literature and especially documentation of chemistry. Dr. Patterson, the first recipient of the biennial award, was recognized for his leadership in organic chemical nomenclature and his work as editor of Chemical Abstracts. There were 13 additional recipients of this award, including E.J. Crane, who was editor of Chemical Abstracts from 1915–1958. Subsequently, there was a desire to honor and establish an award in his memory. In February 1975 the ACS Board of Directors accepted a proposal by the Dayton and Columbus Sections for a jointly sponsored Patterson-Crane Award.

Award Criteria

Nominees, who need not hold ACS membership, should demonstrate outstanding achievement in the field of chemical information science. Contributions of international significance may relate to:

- Design, development, production, or management of chemical information systems or services.
- Electronic access to and retrieval of chemical information; critically evaluated data compilations.
- Information technology applications in chemistry or other significant chemical documentation, including production of original works, editorial work, or chemical library work.

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

Send one copy of the nomination materials to Dr. Melinda Greer, Chair of the Patterson-Crane Award Committee (contact information provided below), for receipt by 31 January 2005. To receive an informative brochure about the award, contact Dr. Greer.

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's Division of Chemical Information.

The 2005 Patterson-Crane Award will be presented in the Spring of 2005 at an awards dinner to be held in Dayton, Ohio.

Dr. Melinda Greer, Raymond Walters College
melinda.greer@uc.edu
(513) 936-7165

2004 Dayton Section Elections: Candidate Biographies & Statements

Office: Chair-Elect

Candidate: Hilmar Koerner

Position Title & Place of Employment:

Research Scientist at University of Dayton Research Institute since August 2001

Education Information (Degrees, Institutions, Fields of Study and Corresponding Dates):

- Visiting Scientist, Materials Science and Engineering Dept, Cornell University, Chemistry and Physics of Advanced Photoresists for 157nm Lithography. 2000-2001
- University Assistant, Institute of Polymeric Materials, University of Leoben, Austria, Surface Chemistry and Molecular Modeling of Filled Polymeric Materials. 1998-2000
- Postdoctoral Associate, Materials Science and Engineering Dept, Cornell University, Physics and Chemistry of Polymeric Materials (Liquid Crystals, Thermosets, Block Copolymers). 1994-1998
- PhD in Chemistry, Institute of Physical Chemistry, Technical University of Clausthal, Germany. Thesis Title: Structure investigation of crystalline and liquid crystalline side-group polymers. 1992 - 1994
- Diplom Chemist, Institute of Physical Chemistry, Technical University of Clausthal, Germany. Thesis Title: Synthesis and characterization of liquid crystalline polymers with azobenzene side-groups and low molecular weight model compounds. 1990-1992
- Chemistry at Technical University of Clausthal. 1984-1990

Professional Society Affiliations (Offices held, Dates, Services to ACS):

- National American Physical Society (APS)
- National American Chemical Society (ACS)
- Materials Research Society (MRS)

Statement:

After High School I studied Chemistry at the University of Clausthal (yes, the German alcohol-free beer, "Clausthaler" is named after this town, but that's not the only kind they drink there!). I also got my PhD in Physical Chemistry in Clausthal in 1994 with the research topic of chemistry and physics of Liquid Crystals Polymers. In September 1994 I went to Cornell University as a Postdoctoral Associate to continue research on Liquid Crystal and Reworkable Thermosets. In 1998 I took a position as University Assistant at the University of Leoben in Austria. In September 2000 I continued research on Advanced Photoresists as a Visiting Scientist at Cornell University, designing materials for the next generation of microelectronics (Intel, SEMATECH).

I joined the University of Dayton Research Institute in August 2001 working for the Wright-Patterson Air Force Materials Laboratories in areas such as polymeric materials for fuel cell applications, nano-composite materials and liquid crystals.

2004 Dayton Section Elections: Candidate Biographies & Statements

Office: Councilor

Candidate: Steve Trohalaki

Position Title & Place of Employment:

Computational Chemist, Visiting Scientist, Air Force Research Laboratory, 1991 - present

Adjunct Professor, Department of Chemistry, Wright State University, 1999 - present

Education Information (Degrees, Institutions, Fields of Study and Corresponding Dates):

- 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 (Offices held, Dates, Services to ACS):

Member of the American Chemical Society since 1981

- Member of the COMP and TOXI Divisions
- Attended nearly all National Meetings since 1990
- Veteran of over a dozen National and Regional Employment Clearinghouses

Dayton Section Offices, Committees, and Other Activities:

- Alternate Councilor and ACS Delegate to the Affiliate Societies Council of Dayton, 1999-present
- 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
- Printing & Publicity Chair, Younger Chemist Committee Organizer, and Employment Clearinghouse Contact for the 1996 Central Regional Meeting

Member of the Materials Research Society intermittently since 1991

- Special Contributor to the *MRS Bulletin* since 2002

Member of the American Association for the Advancement of Science since 2003

Statement:

I have served our Section in several essential capacities, many times concurrently, for the past 10 years. During this time, the Section has received several Outstanding Section, Public Relations, and Government Affairs Awards. However, throughout my 23-year membership, I've strongly disagreed with ACS policies that provide the chemical industry with a relatively cheap supply of labor at the expense of its members. Rather than abandon our Society, I choose to work for change within the ACS and to concentrate on its beneficial aspects. It is with this twofold mindset that I will represent our Section as Councilor. Oh, by the way, my opponent is an incompetent, flip-flopping dolt.

2004 Dayton Section Elections: Candidate Biographies & Statements

Office: Treasurer **Candidate:** Rachel Jakubiak

Position Title & Place of Employment:

National Research Council Associate, AFRL Materials & Manufacturing Directorate, Polymer Branch

Education Information (Degrees, Institutions, Fields of Study and Corresponding Dates):

- University of Rochester, Ph.D. in Chemistry, October 2000. Thesis title: Optical Properties of Conjugated Polymers
- University of Rochester, M.S., June 1997. Specialization: Chemistry
- The University of Michigan, B.S. in Chemistry, June 1995

Professional Society Affiliations (Offices held, Dates, Services to ACS):

American Chemical Society, SPIE, Optical Society of America, American Physical Society

Statement: It would be my honor to serve as the treasurer of the Dayton Section of the ACS. As Treasurer I will focus on creating and maintaining sound financial/accounting systems, assisting the organization in making prudent financial decisions, and importantly, working diligently to support activities that instill in the general population interest and enthusiasm for chemistry and science.

Office: Treasurer **Candidate:** Kelly L. Anderson

Position Title & Place of Employment:

National Research Council Postdoctoral Associate, AFRL/MLBP

Education Information (Degrees, Institutions, Fields of Study and Corresponding Dates):

- Ph.D. in Materials Science & Metallurgy, Cambridge University, England (Dec. 2002)
- B.S. in Polymer Science, University of Southern Mississippi (May. 1998)

Professional Society Affiliations (Offices held, Dates, Services to ACS):

ACS member since 1995, APS member since 2002, MRS member since 2002.

Statement: As your next ACS treasurer, I will work diligently to ensure the funds for this section are spent wisely to benefit all local members of the ACS. Please participate in the Dayton area ACS to make this a great place for chemists to live and work.

Office: Alternate Councilor **Candidate:** Rajesh R. Naik

Position Title & Place of Employment:

Biotechnology Group Leader, Air Force Research Laboratory.

Education Information (Degrees, Institutions, Fields of Study and Corresponding Dates):

- Ph.D. (Biological Sciences), Carnegie Mellon University, Pittsburgh PA, 1997
- M.S (Microbiology), Duquesne University, Pittsburgh PA, 1992
- B.S. (Microbiology), University of Bombay, India, 1990.

Professional Society Affiliations (Offices held, Dates, Services to ACS):

Materials Research Society (2000-present); American Chemical Society (2001-present).

Statement: None

2004 Ballot
Dayton Section of the American Chemical Society

Instructions:

1. Mark clearly one candidate for each office.
2. Remove ballot from *Bulletin* and enclose in smaller envelope marked 'Ballot.'
3. Enclose ballot envelope in larger envelope addressed to the Dayton Section.
4. Sign clearly in upper, left-hand corner of Dayton-Section envelope and provide return address.
5. Provide postage and mail so that ballot is delivered by November 15, 2004.
6. A last call for ballots will be made at the start of the Professional Practices Meeting on November 16, 2004.

Chair-Elect:

- Hilmar Koerner

Councilor:

- Steve Trohalaki

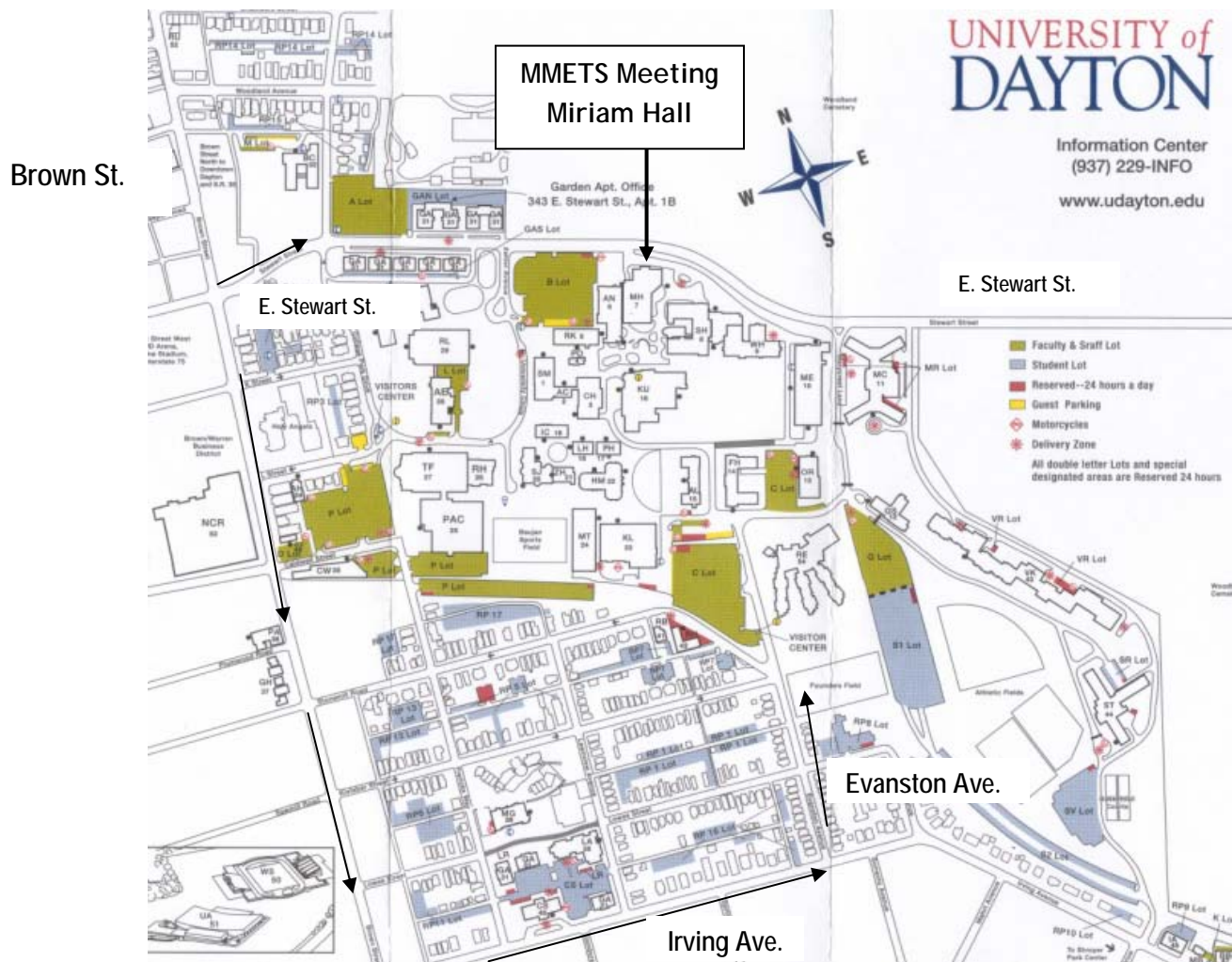
Treasurer:

- Rachel Jakubiak
 Kelly Anderson

Alternate Councilor:

- Rajesh Naik

Elected officers will serve terms starting in January 2005



Parking is permitted in Lots A, C, and P (no pass necessary). Anyone parking in Lot B may be ticketed.

SITUATIONS WANTED / JOB OPENINGS

Upon request, the Section will include in the *Bulletin* job openings and confidential situations-wanted postings. Employment seekers should coordinate through the Section Career Program Chair.

Looking for Creative Chemists

Cornerstone Research Group (CRG), located in Dayton, specializes in R&D of materials and process technologies to enhance our customer's competitiveness. Our focus is on the design and application of state-of-the-art materials for commercial and military markets. CRG is seeking creative scientists to support state-of-the-art R&D.

Areas of Interest

- Polymer and inorganic chemistry
- Materials science and nanotechnology
- Chemical and manufacturing engineering
- Aerospace and composite engineering

Responsibilities:

- Hands-on research in a laboratory environment
- Communication and reporting of results
- Support of proposals and future business
- Development of technologies and core capabilities
- Championing development of innovative solutions

Requirements:

- U.S. citizenship
- BS or MS in a related discipline
- Ability to work with others in a team environment
- Strong written and oral communication skills
- Laboratory skills – experience in synthesis is a plus
- Computer literacy
- Broad knowledge of both science and engineering a plus

Please e-mail a résumé with cover letter to petriebg@crgrp.net or access our web site at:

<http://www.crgrp.net/employment.htm>

No hard copy résumés or walk-ins, please.