

The Chemical Record

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Columbus Section of the American Chemical Society, Inc.

www.acscolumbus.org

In This Issue...

- 1 Come to our Meeting!
- 1 Message from the Chair
- 2 National Chem. Wk Plans
- 3 Past Meeting Minutes
- 4 Meeting Details
- 7 Calender



Applications of Biopolymers

Wednesday, November 14th, 2001

Come to our November meeting and listen to Dr. James N. BeMiller as he presents adventures in polysaccharide chemistry.

See page 4 for more details!

Directions: To get to the Fawcett Center, take Route 315 to Lane Ave. exit. Go E to Olentangy River Rd. Turn L (N) onto Olentangy River Road and turn R into the Fawcett Center parking lot. After entering the building, follow the signs to the meeting room..

A Message from the Chair...

We had the opportunity to welcome the ACS President-Elect, Eli Pearce, at our meeting in October. The occasion was made doubly special by the award of our 50-year member certificates. Several of our 50-year "veterans" were able to join us. It all made for a delightful evening. Roxane labs was also recognized for their support in numerous section ventures over the years, and we look forward to hosting many more activities together.

By now you will have received your ballots for local and national ACS elections and I hope that you have taken the opportunity to vote. For the local elections, AEP has kindly provided support to cover the return postage - so no excuses!

National Chemistry Week begins on Nov 4th with the theme "Celebrating Chemistry and

Section News

Art". Details will be posted on our web page (www.acscolumbus.org) and we hope that you will participate in some of the planned activities.

Our Nov speaker will be presenting on the topic of "BIOPOLYMERS" - a subject of great importance for current academic and industrial research and application. We hope that you will join us at the Fawcett Center on Nov 14th.

Jimmy Cowan, Chair (October 2001)

National Chemistry Week 2001 – Chemistry and Art

by Patrick Woodward, NCW Chair.

This year's national chemistry week runs from November 4-10. The Columbus section has planned a number of events designed to celebrate chemistry both among our membership and throughout the community at large. Some of the highlights of national chemistry week are described below and in the NCW webpage at: acscolumbus.org.

Glassblowing Demonstration and the Gallery Hop (Nov. 3) To kickoff National Chemistry Week 2001, we've arranged a glass blowing exhibition on Saturday, November 3 at 6:00 pm at the Glass Axis studios, 1341 Norton Ave, in Grandview off Fifth. Their website, www.glassaxis.org, has directions and maps. This will be followed by an outing to the Gallery Hop in the Short North. Join us for a fun evening of chemists immersed in art. The glass blowing demonstration is free of charge to members and guests, but we ask that you send an RSVP to Craig Kelley (ckelley@mail.cosi.org) so that we can estimate the number of people who will be attending. Alternatively, members can form their own groups to do the Gallery Hop at their convenience.

10) and the Columbus International Festival (Nov. 3-4) Once again this year we have hands-on activities and demonstrations at the Columbus Metropolitan Library, Main Building, on Saturday, November 10th from 10 am to 4 pm, as well as at the Columbus International Festival on Saturday, November 3rd from 10 am to 9 pm and Sunday, November 4th from 11 am to 6 pm. Volunteers are needed to help with the demonstrations at both venues. If you're able to volunteer some time please contact George Greene (George.Greene@RossNutrition.com) for more information about the Library demonstrations or Pat Woodward (woodward.55@osu.edu) about the International Festival. If you're not able to volunteer, feel free to drop in and see what's going on.

Chemistry Then and Now Poster Contest As part of the NCW celebration, and in recognition of the 125th Anniversary of the American Chemical Society, we're sponsoring a poster contest for K-12th grade students "Celebrating Chemistry - Then and Now," in conjunction with National ACS. The contest challenges students to draw a poster illustrating how chemists and/or chemistry have contributed to positive changes in the quality of our lives in the past 125 years. Prizes will be awarded in four grade categories: K - 2, 3 - 5, 6 - 8, 9 - 12. We've distributed information to high school science teachers, but we need members who have interactions with the schools, particularly the younger grades to get the word out to the teachers and schools about this contest. Flyers are available from the NCW website and links to background information on chemistry can be found on our local NCW website. Prizes are available on both the National and Local level. Entries can either be dropped off at either the Main Library or the International Festival demonstrations or sent to Maria Rosenthal by November 30, at Chemical Abstracts Service, D56. 2540 Olentangy River Road, **Columbus, OH 43202**.

Demonstrations at the Main Library (Nov.

(continued on page 3)

Section News

The Central Ohio Undergraduate Research Symposium - COURS 2001 (Nov. 3) This year COURS 2001 takes place during National Chemistry Week on Saturday, November 3, 2001 at Kenyon College in Gambier. The keynote speaker will be Dr. Susan White from Bryn Mawr College, and her presentation is entitled "An RNA Odyssey." The Symposium is designed for undergraduates to present their chemistry research and interact with other students, faculty members and local chemists.

Chemistry: The Winning Formula T-shirt Design Contest for Student Affiliate Chapters Also during NCW-2001, the American Chemical Society is sponsoring a unifying event for Student Affiliates Chapters. The event, "Chemistry: The Winning Formula," is a T-shirt design contest that provides students an opportunity to share their unique talents by creating illustrations that can be used to promote chemistry and its positive contributions to everyday life. Prizes will be awarded to one winner, and one honorable mention. The Student Affiliate Advisor of the winning entries will receive a "[Salutes to Excellence Plaque](#)."

Columbus Section Award

Nominations are sought for the Columbus Section Award; given in recognition of Outstanding Achievement and Promotion of the Chemical Sciences. Nominees should have been full members of the Columbus Section for at least some of the period for which the candidates work and efforts are being recognized. A completed nomination will include the full curriculum vitae for the nominee, a nominating letter, and at least three additional letters written in support of the nomination. Nominations received by Jan 31 2002 will receive full consideration.

Completed packages should be mailed to:
ACS Columbus Section
CS AWARD
P.O.Box 82181
Columbus, OH 43202

Meeting Minutes

Synopsis of the minutes of the Executive Committee Meeting held on September 12th 2001. The meeting was also attended by Professor Joseph Nagyvary from Texas A&M, speaker for the evening meeting. A proposal for support of elementary science education was approved and Maria Rosenthal will use \$300 to purchase Best of Wonder Science Resource Books for elementary school science teachers. Ed King reported that the 2001 ACS Regional Meeting was very successful. Lucile Decker is stepping down from the Intersociety Affairs post and Jerry Boone will take her place. Her work is greatly appreciated. Tom Weeks will be representing the section at an Ohio Energy Summit and Ben Bayer of Ashland Chemical introduced himself as the Chair of the Technical Affiliates group. Councilors reported back on the Chem Luminary events in Chicago where the Section received a sculpture plaque, certificate and a check for \$250. Karen Toplek's outstanding National Chemistry Week report contributed much to the success of our section.

Synopsis of minutes of the Executive Committee Meeting held on October 4th 2001 This meeting was also attended by Dr. Eli Pearce, ACS President-Elect, and Dr. Bill Carroll, ACS President Nominee. It was reported that the ballots for the election of the Local Section have been mailed out. Pat Woodward, Chair of the National Chemistry Week committee, reported on the progress with the activities planned between November 4th-10th. Demonstrations are planned at the main library on November 10th and chemists at the ACS booth at the International Festival will be responsible for demonstrations and publicity material for the general public. Volunteers are needed for both of these events.

(continued on page 6)

Meeting #773

Wednesday, November 14th, 2001

Fawcett Center of Tomorrow

2440 Olentangy River Road

Columbus, Ohio 43210

614-292-1342

5:30 PM Reception: fruit punch and pretzels.

6:00 PM Dinner Buffet: selection of house, garden and caesar/greek salads, freshly baked bread and herbed butter, vegetable of the day, potato or rice; and two entrees: Flank steak roulade filled with bacon and greens on a bordelaise sauce AND Grilled portobello mushroom pizza; followed by desert. Includes standard beverages.

7:00 PM Lecture:

Applications of Biopolymers

Dr. James N. BeMiller

Purdue University

Cost: \$16.00. Emeritus members and unemployed members are \$14.00. Students are \$5.00. (The cost covers the price of dinner. If you cannot attend the dinner, please feel free to attend the program at 7:00 PM).

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 Mon Nov 5th. Please indicate retired/unemployed/spouse/student status and affiliation when making reservations. To cancel a reservation, please call Marcella by 11:00 AM Tue Nov 6th. No cancellations can be accepted after that time. Uncancelled reservations must be paid. Members having more than two unpaid reservations will be required to cover meal costs in advance. Early reservations are appreciated

Executive Meeting: A business meeting will be held at 4:30 PM on Wed Nov 14th at Chemical Abstracts. Any section member is welcome to attend the business meeting.

Directions: To get to the Fawcett Center, take Route 315 to Lane Ave. exit. Go E to Olentangy River Rd. Turn L (N) onto Olentangy River Road and turn R into the Fawcett Center parking lot. After entering the building, follow the signs to the meeting room.

About the Topic

More than 90% of all carbohydrates are in the form of polymers called polysaccharides. The commercial water-soluble or -dispersible polysaccharides, commonly called gums, are used in a variety of industries from petroleum production to foods. Preparation from plants seaweeds, and bacteria; structures and properties that make them useful in diverse applications (e.g., oil well drilling muds, adhesives, textile sizing agents, food gelling agents, etc.); and uses of a representative sample will be presented in a way that is understandable by and interesting to both scientists and nonscientists.

About the Speaker

Professor James N. BeMiller is Professor and director of the Whistler Center for Carbohydrates Research at Purdue University. The Whistler Center is an academic research center with international recognition devoted to fundamental research on the chemical and physical properties of carbohydrates that are related to their practical applications.

Dr. BeMiller has more than 220 papers and books chapters to his credit and has edited or authored 23 books. He has been editor of the important series *Methods in Carbohydrate Chemistry*. He edited the best-selling *Industrial Gums* (now in its third edition) and the comprehensive *Starch: Chemistry and Technology* (two editions). He has contributed significantly to organizations that promote advancement of the chemistry and applications of carbohydrates. He has been on the U.S. Advisory Committee for International Carbohydrate Symposia, Inc., since 1975 and its president since 1978.

He has been the national representative of the United States to the International Carbohydrate Organization (ICO) since 1978, and twice its president. He has co-directed and taught 26 annual (AACC) short courses on Gum Chemistry and Technology for the Food Industry. Twice, he was the technical program chairman of the Starch Round Table, an independent group that sponsors exchanges of information between academic, government, and industrial starch scientists, and

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Section News

(continued from page 3)

was president of the Starch Round Table Board for four years. He has been a member of the Sucrochemistry Advisory Council of the Sugar Association. He has been chairman of the Carbohydrate Divisions of the ACS, AACC, and IFT. Dr. BeMiller has received a university AMOCO Outstanding Teacher Award, the Monsanto Sigma Xi Kaplan Research Award, the Melville L. Wolfrom Award of the ACS Division of Carbohydrate Chemistry, the

Harold Macy Food Science and Technology Award, the Medal of the Japanese Society of Applied Glycoscience, the Kenneth A. Spencer Award of the Kansas City Local Section of the ACS, and the Alsberg-Schoch Award of the American Association of Cereal Chemists. He has been a Belfort Lecturer at Purdue University, a William F. Geddes Memorial Lecturer for the Northwest Section of AACC, and a Andrew Jackson Moyer Lecturer for the USDA laboratory at Peoria.

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614.268.8534
Fax 614.457.7229
email: westwood@infinet.com

The Chemical Record

Email news, announcements, letters, opinions, etc. to srenner@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. 88, CAS, 2540 Olentangy River Rd., Columbus, OH 43202.

Send address changes/name removals to Ron Haney, Membership Chairman (haneyro@cromptoncorp.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

Calendar

November:

4-10th; National Chemistry Week;
Theme: Chemistry in Art.

14th; “*Applications of Biopolymers*”, Dr James N. BeMiller; Program at the Fawcett Center.

December:

12th; Combined meeting with the AIChE; “*A Labor of Love - the art and technology of making chocolate*”, Dr. Witfield Robbins, Nestle Company; Dinner and Program to be held at the Holiday Inn on Lane Avenue.



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

Local Section ACS Officers.

Chair: Jimmy Cowan, OSU (292-2703), cowan@chemistry.ohio-state.edu

Chair-Elect: Sherry Hemmingsen, Varian Inc. (761-1330), sherry.hemmingsen@varianinc.com

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

Councilors: Jodie Harper, SEGO International, (614-276-9952), jodie@segointernational.com;
Terry Huston, CAS (447-3600 x3354), thuston@cas.org; Don Songstad, CAS (447-3600 x2157),
dsongstad@cas.org

Alternate Councilors: Thomas A. Evans, Denison University (740-587-6496), evans@denison.edu
Maria Rosenthal, CAS (447-3600 x3578), mrosentha@cas.org; Ed King, CAS (447-3600),
eking@cas.org.