



# The Chemical Record

Volume 48, Number 3 - April, 2006

Columbus Section of the American Chemical Society, Inc.

George W. Greene, Editor -- Tom Weeks, Section Chair

[www.acscolumbus.org](http://www.acscolumbus.org) -- [chemicalrecord@yahoo.com](mailto:chemicalrecord@yahoo.com)

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## MEETING NOTICE

COLUMBUS SECTION OF THE AMERICAN CHEMICAL SOCIETY, INC.

<http://www.acscolumbus.org>

Thursday, April 20, 2006

*Black Raspberries and Cancer Prevention*  
*Chris Weghorst, Ph.D., OSU School of Public Health*



*Ashland Inc.*  
*5200 Blazer Parkway*  
*Dublin, OH*

**This lecture is designed to be of interest to all audiences; attendance is limited**

5:00-6:00 PM	Executive Committee Meeting Room 1A (lower level)
6:00 – 6:30 PM	Reception
6:30 – 7:30 PM	Buffet Dinner
7:30 PM	Program: Black Raspberries and Cancer Prevention
Menu	Buffet including salad, vegetable, baked stuffed chicken, vegetable lasagna, rolls, dessert with black raspberries
Cost	Members and nonmembers \$19.00 Retired and Unemployed members \$17.00 Students \$14.00 Payment will be collected at the door; cash and checks accepted.
Reservations	Please use the voice mail reservations service by calling 614-447-3600 extension 7047. Follow template for reservations*. Alternatively, please send e-mail to The Columbus Section at the following e-address: <a href="mailto:acscols@cas.org">acscols@cas.org</a>
*Voicemail/e-mail Reservations Template	<ul style="list-style-type: none"><li>• First and last name: please spell last name.</li><li>• Membership category: member, retired, emeritus, unemployed, student, non-member, other.</li><li>• Employer</li><li>• Vegetarian option or not</li><li>• Your phone number, in case we need to contact you.</li><li>• If you intend to come to the Executive committee meeting, please state so to allow early entry.</li><li>• There is <b>no</b> lecture only option</li></ul>
<b>Reservations Deadline</b>	<b>5:00 PM, Monday, April 17</b> <b>Attendance is limited to 90 people and to those attending dinner only.</b>
Program Contact	Tom Weeks 614 486 2114 <a href="mailto:Weeks.tj@gmail.com">Weeks.tj@gmail.com</a>
Security Note	All visitors must be pre-registered and will be checked in on the first floor. Attendees should arrive no later than 6:30 pm. If you plan on attending the Executive Committee meeting, please state in the above template and meet in the lobby no later than 5 pm. <b>All attendees must check out upon leaving.</b>

### **About the Topic**

Cancer chemoprevention is defined as the use of natural or synthetic agents, in combination or alone, to inhibit, delay, or reverse the carcinogenic process and is recognized as a very promising area of cancer research. Numerous epidemiological studies have shown the strong correlation between frequent consumption of fresh fruits and vegetables and a decreased cancer risk. With a food-based approach to cancer chemoprevention, emphasis is placed on the potential for complex mixtures of preventive agents in whole food to inhibit multiple processes of carcinogenesis. In support of this approach, several preclinical animal studies have been conducted that demonstrate the remarkable chemopreventive activity of black raspberries on chemically-induced aerodigestive tract tumor development, including oral, esophagus, and colon. While this chemopreventive phenomenon is striking in animal models of cancer, the chemopreventive potential of black raspberries on human cancer development remains unclear. This research project is fundamentally translational in nature and strives to extend the chemopreventive assessment of this fruit to the problem of human oral cancer.

### **About the Speaker**

Dr. Christopher M. Weghorst is an Associate Professor of Public Health at The Ohio State University and a member of the OSU Comprehensive Cancer Center and James Cancer Hospital and Solove Research Institute. He received his B.A. in biology from Mount



Vernon Nazarene University and Ph.D. from the Medical University of Ohio. He trained as a postdoctoral fellow and staff fellow in the Laboratory of Comparative Carcinogenesis at the National Cancer Institute prior to coming to OSU. He has authored or co-authored over 75 publications in peer-reviewed scientific journals and has been awarded research funding from numerous federal, state and private entities. He has also been named as a “V Scholar” by the V Foundation, a charitable organization formed by the family and friends of former North Carolina State head coach, Jimmy Valvano, to find a cure for cancer. With an overall goal of better understanding the molecular basis and prevention of human cancer, he and his research team have most recently focused their attention on the chemoprevention of oral cancer development using natural food products.

## DIRECTIONS

Blazer Parkway cuts the corner of Franz Rd. and Rings Rd and continues across Rings Rd. to Tuttle Crossing. If one enters Blazer Pkwy from the Rings side, the Ashland complex is the first set of buildings on the left. It's the last on the right if entering from Frantz Rd. Registration will take place in the Administration Building, which has flag poles in front and the number 2 on the top of the building. Check-in is on the first floor, and you must sign out when leaving.

From the west

Take I-70 E to the I-270 NORTH exit (#93B) toward CLEVELAND (7.0 miles)

Take the TUTTLE CROSSING BLVD exit (#15) (0.2 miles)

Go RIGHT on TUTTLE CROSSING (0.1 miles)

Turn LEFT onto BLAZER PKWY. (0.8 miles)

Cross Rings Rd. and buildings are on your left off of Blazer Parkway

From the north

Take I-71 South to the I-270 WEST exit

Take I-270 W to EXIT 17 (Dublin/Route 33 East)

Turn RIGHT on FRANTZ RD.

Turn RIGHT on BLAZER PARKWAY

Buildings are on your right as you curve around on Blazer Parkway

From the east

Take I-70 W to I-270 N

Take I-270 N to EXIT 17 (Dublin/Route 33 East) 9.6 mi.

Turn RIGHT on FRANTZ RD.

Turn RIGHT on BLAZER PARKWAY

Buildings will be on your right as you curve around on Blazer Parkway

From the south

Take I-71 N. to the I-270 exit 0.0 mi.

Take the I-270 WEST exit on left towards INDIANAPOLIS. 0.4mi

Keep RIGHT at the fork in the ramp. 0.3

Keep LEFT at the fork in the ramp. 0.2

Stay straight to go onto I-270 W. 15.0

Take the TUTTLE CROSSING BLVD exit 0.4

Turn RIGHT onto TUTTLE CROSSING BLVD. 0.2

Turn LEFT onto BLAZER PKWY. 0.5

Stay in left lane which becomes center lane (thru lane) as you approach traffic light at Rings Rd.

Cross Rings Rd. and buildings are on your left off of Blazer Parkway



## National Chemistry Week 2006

October seems far away, but it and National Chemistry Week (NCW) will be here before we know it. Each year the American Chemical Society's NCW campaign reaches millions of people with positive messages about the contributions of chemistry to their daily lives. It is the one time during the year when chemists unite with the common goal of spreading the word that chemistry is good for our economy, our health, and our well-being. The celebration dates for 2006 are **October 22 – 28** with the theme, **"Your Home—It's All Built on Chemistry"**.

Planning starts long before NCW arrives, and the Columbus Section coordinator is Professor John Blaha of Columbus State Community College ([jblaha@csc.edu](mailto:jblaha@csc.edu)). Some ways that you can contribute to the NCW campaign are: helping at an event planned by the NCW coordinator; performing chemical demonstrations at a neighborhood school; conducting hands-on activities with children at museums, malls, or libraries; or writing articles or letters to the editor of the local paper.

NCW is sponsored by the Office of Community Activities (800-227-5558 ext. 6097, [ncw@acs.org](mailto:ncw@acs.org)). Visit <http://chemistry.org/ncw> over the summer as more content is added! Please join the celebration!

## 37th Central Regional Meeting to Take Place in May

The Central Regional Meeting (CRM) will take place May 17 – 20, 2006, in Frankenmuth, Michigan, during their World Festival of Beer. CRM will open with Jean Michel Cousteau speaking on Ecology and Economics of the Sea and end with a two-day silicon symposium with many exciting programs in between. Visit their website at [www.crm2006.org](http://www.crm2006.org).

## 2008 Central Regional ACS Meeting Coming to Columbus

The 2008 meeting of the Central Region of the American Chemical Society will be held in Columbus, sponsored by Ohio State University and the Columbus Section of ACS. Contact Jimmy Cowan, [cowan@chemistry.ohio-state.edu](mailto:cowan@chemistry.ohio-state.edu), if you would like to help organize the meeting.

## Earn Teaching Credentials Through OSU Excel Program

The EXCEL program at the Ohio State University offers a pathway for mathematics and science professionals to a teaching career in secondary mathematics or science. Earn credits toward an alternative license and an M. Ed. while teaching in an Ohio public school. Tuition assistance might be available, pending funding.

Please contact Mike Kositzke at 688-5670 or [kositzke.2@osu.edu](mailto:kositzke.2@osu.edu) for more information.

## The Importance of Personal Involvement with Our Legislators

Message from the Office of Legislative and Government Affairs, ACS in Washington DC  
Contributed by Manfred Luttinger, Columbus Section State and Local Government Affairs Chair

In her January 6 President's Message published in Chemical & Engineering News, Ann Nalley called for quadrupling the membership of the ACS Legislative Action Network (LAN). We encourage you to apply online by going to <http://www.chemistry.org/takeaction.html>.

LAN members receive e-mail alerts prior to key congressional decisions. These alerts explore the issue's background, the potential effect it might have on the scientific enterprise, and the position ACS holds. By clicking on a Web link provided in the alert, participants can access the ACS Legislative Action Center to review the issue further and send letters to their legislators within minutes. In addition, the monthly Capitol Connection electronic newsletter keeps members up-to-date on decisions being made on Capitol Hill and in the White House. The more voices advocating for chemistry, the more informed legislators will be before enacting legislation.



#### **What is the Legislative Action Network?**

The American Chemical Society's electronic grassroots program for updating members on federal legislation and facilitating contact with members of Congress, it focuses primarily on federal science education and R&D policy, but also addresses environment, workplace, and competitiveness issues.

#### **What are the benefits?**

- Access to our web-based Legislative Action Center—communications headquarters of the Network!
- Monthly Legislative Bulletins—brief e-mail updates of key federal issues
- Immediate notification of hot issues via Legislative Action Alerts
- The opportunity to impact national issues integral to the chemical enterprise

#### **How does the program work?**

Six to eight times per year, network members receive timely Legislative Action Alerts via e-mail urging them to contact their legislators on issues of concern to ACS members. The Alerts will include:

- Background and status of the issue
- ACS position
- Legislator contact information
- Sample letters

Please contact Manfred Luttinger ([luttinger@battelle.org](mailto:luttinger@battelle.org)) for additional information about this effort and activities of the Section's State and Local Government Affairs Committee.

## **Welcome New Members**

**Compiled by George Noethlich, Membership Chair**

Please join us in welcoming the following new members who have joined the Section recently:

NICOLE M DICKSON  
MICHELLE R DOLGOS  
OZLEM DOGAN EKICI

XIAOCHUAN HU  
ABDELLATIF A IBDAH  
YOUNG-IL KIM

RYAN D McCULLA  
MICHELLE R ROETTGER  
GEOFFREY L TOLLE

New members are invited to attend their first Section meeting dinner free of charge.

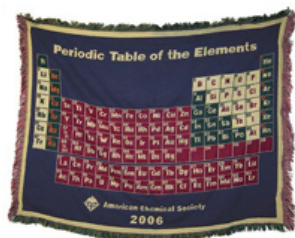
## **About ACS**

The American Chemical Society is a self-governed individual membership organization that comprises more than 158,000 members at all degree levels and in all fields of chemistry. The organization provides a broad range of opportunities for peer interaction and career development, regardless of professional or scientific interests. The programs and activities conducted by ACS today are the products of a tradition of excellence in meeting member needs that dates from the Society's founding in 1876.

## **Membership Is for Everyone**

Becoming a member of the ACS means becoming a part of the world's largest scientific society. The ACS provides a multitude of information, educational, financial, technical and professional opportunities for its members. The Society's 33 technical divisions cover the entire spectrum of the chemical world and the 189 Local Sections allow you to participate in local events and meetings throughout the year.

Please either complete the Membership Application online (at <https://acswebapplications.acs.org/applications/acsmembership/join.cfm>) or download the application in PDF and mail or fax it to: American Chemical Society, Member & Subscriber Services, PO Box 82229, Columbus, OH, 43202-9906. Phone: 800-333-9511; E-mail: [service@acs.org](mailto:service@acs.org)



## 2006 Member-Get-A-Member Campaign

By Debeorah J. Fillinich, ACS Membership Division Manager

The American Chemical Society's 2006 Member-Get-A-Member campaign kicked off in February, and we are asking for your help again this year. Did you know that our ACS members recruited 865 new members last year? ACS is challenging members to double the 2005 results.

This year's campaign will offer ACS members a brand new Periodic Table of the Elements throw for the FIRST new eligible member you recruit. The 2006 throw will have new colors and the latest elements added. Please allow 6-8 weeks for delivery.

When you recruit more than one new eligible member you will receive another NEW gift. We will be sending you a package with all the details but in the meantime you can start recruiting by going to [chemistry.org/membership/mgm.html](http://chemistry.org/membership/mgm.html) where you will find complete details.

## Columbus Technical Council Awards Banquet

Contributed by Mark Farrell, CTC President

The Columbus Technical Council (CTC) High School Spring Awards Banquet banquet will be held Wednesday evening, April 26th, at the Clintonville Woman's Club beginning at 6PM. It has become the premier event recognizing student achievement in the sciences. This year, the CTC will honor 20 nominees from local high schools as the Outstanding Senior Science Student for their particular schools. More than 50 student research papers have been submitted to the various technical societies in the fields of material science, electrical engineering, biology, chemistry, and physics. Several of the individual technical Societies present awards such as cash and plaques for projects that relate to the Societies' activities. It has become a night that we are all proud of; not just the accomplishments of the students, but also the partnerships with the teachers and the members of the Central Ohio technical community who help these students to reach their goals.

The Columbus Technical Council (CTC) is a not-for-profit organization set up on behalf of Central Ohio chapters of engineering and technical societies. The purpose of the CTC is to act for the common good of all member societies in a manner which will enhance the prestige and public appreciation of the engineering, science, and technical professions.

## Volunteer Recognition

By Tom Weeks, Chair

As a section, our success depends on the effort of volunteers, many of whom do their work out of the spotlight. As Chair, I'd like to occasionally recognize these individuals, and bring them to your attention. This month I'll draw your attention to George Greene. George has been Editor of *The Chemical Record* since 2002. Every month he solicits contributions from busy individuals and committee chairs, scans the multiple messages from the National office that merit inclusion in our newsletter, keeps the calendar updated and ensures that upcoming events get highlighted (such as Earth Day), formats all this info, and gets the newsletter out in time to inform our members of upcoming events. This is a time consuming task.

But George is a real glutton for punishment, and was Section Treasurer last year in addition to doing the Record. His task as treasurer was not easy, as our records were in significant disarray due to a variety of reasons. George labored mightily to set things right, and we can thank him that our section is not only financially healthy, but that we can prove it. Through all this work George was always upbeat and cheerful.

George works for Abbott Laboratories as a Research Scientist, and has been active in the Columbus location for ten years. He graduated from Pikeville (Kentucky) College with a degree in chemistry.

The next time you see George, give him a big Thank You.



### **Opportunities in Pharmaceutical Industry**

Boehringer Ingelheim Roxane, Inc. (BIRI) is an innovative, growth-oriented pharmaceutical manufacturing company in Columbus. BIRI is a part of Boehringer-Ingelheim (BI), a family-owned company in the business of providing our customers with products that significantly enhance their health and improve their quality of life. For more information about BIRI and its products, please visit BI's web site at [us.boehringer-ingelheim.com](http://us.boehringer-ingelheim.com).

Openings:

#### **Quality Control Chemist**

**Responsibilities:** Conduct qualitative and quantitative chemical and physical tests according to pre-established specifications by preparing samples, running analytical equipment, and analyzing data. Perform testing on different technology utilizing safe handling practices according to chemical hygiene standards in order to achieve certification. Writes test methods and results in laboratory notebook and enter data in computer database according to cGMP guidelines and provide feedback to Quality Control management on assigned tasks. Conduct training on technology for incoming chemists which includes demonstrating techniques on particular laboratory equipment and then observing the new person perform the tasks. Troubleshoot instrument malfunctions and analytical results/methodology. Operate major technology such as HPLC, Gas Chromatography, and Atomic Absorption.

**Requirements:** BS/BA degree in Chemistry. A related field may be considered. Experience: One year experience in a pharmaceutical laboratory preferred. Experience in other analytical laboratory settings may be considered. Knowledge of the chemical composition, structure, and properties of substance and of the chemical processes and transformations that they undergo. This includes uses of chemicals and their interactions, hazardous, production techniques, and disposal methods. Ability to analyze issues or situation by identifying the underlying principles, reasons, or facts of information by breaking down information or data into separate parts. Demonstrate strong communication skills to provide information to supervisors, co-workers, customers, and vendors by telephone, in written form, e-mail, or in person. Possess ability to make decisions about laboratory equipment, testing methods, and problem solving. Demonstrate working knowledge of computers (including hardware and software) to set up functions, enter data, and process information. MS word, MS excel, MS outlook required.

#### **Quality Control Technician**

**Responsibilities:** Test products in the Quality Control Laboratory. Provide meaningful feedback to QC Management regarding progress of work day. Troubleshoot analytical result/methodology for products and raw materials.

**Requirements:** Minimum of 2 years of College level coursework in Chemistry; a related field may be considered. One to three years experience in a pharmaceutical laboratory with experience in pharmaceutical testing of product samples. Capable of working with limited supervision and able to take direction well. Prefer candidate to be proficient in computer applications including Word, Excel and LIMS. Must be able to handle multiple tasks at any given time while working in a fast-paced environment. Must have good written and oral communication skills.

BIRI offers a comprehensive package of compensation and benefits including competitive base salary, bonus program, paid-time off program, medical, dental, vision, life insurance, 401k and pension, and a 100% tuition assistance program. For immediate consideration, please e-mail your resume to [roxane@bi-careers.com](mailto:roxane@bi-careers.com) (reference source code "AD-ACSCMH" in the subject line), or go to [Monster.com](http://Monster.com) or BI's website ([us.boehringer-ingelheim.com](http://us.boehringer-ingelheim.com)) to apply online (preferred method; reference source code "AD-ACSCMH" on cover letter).

BIRI is a proud equal opportunity employer and is committed to a safe, clean, and healthy non-smoking work environment.



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### Academic Position



Anticipated one year CHEMISTRY teaching position available at Otterbein College, a liberal arts institution in the Columbus, OH area. ACS-approved department seeks to fill a full-time position with benefits beginning Sept '06. Instruction responsibilities will involve participation in general chemistry and the candidate's area of specialization. A PhD and commitment to teaching excellence are required. All subfields will be considered. Please send application, including CV and three letters of reference, to Krystin Macaluso, Administrative Assistant, Academic Affairs, Otterbein College, One Otterbein College, Westerville, OH 43081. Review of applications will continue until position is filled.

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## Columbus Section ACS Calendar of Events

*Compiled by Maria Rosenthal, Jodie Harper, Tom Weeks, and George Greene*

2006	March	25-29	Sat – Wed	Atlanta	231 <sup>st</sup> ACS National Meeting.
2006	April	TBA	TBA	TBA	Central Ohio Section AIChE Student Night
2006	April	2-3	Sun – Mon	2015 McPherson Labs, OSU	Training session for Wonders of our World (WOW) volunteers
2006	April	11	Tue	Billy Crickets 1130 N. Memorial Dr., Lancaster, OH 43130	Central Ohio Section AIChE Student Awards/Annual Elections. Larry Latta, Commissioning Manager, American Electric Power, will speak about professional issues (licensing, continuing education, state reciprocity, etc.) affecting chemical engineers. Contact Kelley Distel <a href="mailto:distelk@battelle.org">distelk@battelle.org</a> or 614-424-6464 no later than April 6, 2006 to make reservations.
2006	April	20	Thu	Ashland, Inc.	Section Meeting: Chris Weghorst, PhD, <i>Black Raspberries and Cancer Prevention</i>
2006	April	20-24	Thu – Mon		National Chemistry Olympiad examinations
2006	April	22	Sat	Here, There, Everywhere	 CHEMISTS CELEBRATE EARTH DAY. Theme: <i>Dig It!</i> Unifying Event: <i>Plant It for The Planet</i>
2006	April	26	Wednesday	Clintonville Woman's Club	6:00 PM: 2006 Columbus Technical Council Awards Banquet
2006	May	6	Sat	Columbus	State Science Day – ACS Awards
2006	May	16	Tue	Ohio Dominican University	Annual Section Awards Banquet: Columbus Section Award, High School Chemistry Teacher of the Year
2006	May	16-20	Tue – Sat	Frankenmuth, MI	Central Regional ACS Meeting and 39 <sup>th</sup> Silicon Conference.
2006	July	28	Fri		Kids & Chemistry – Professor Jeff
2006	August	TBA	TBA	TBA	High School Chemistry Teachers' Workshop conducted by Jeff Bracken
2006	August	1	Tue		Kids & Chemistry – Professor Jeff
2006	September	10-14	Sun – Thu	San Francisco	232 <sup>nd</sup> ACS National Meeting.
2006	October	22-28	Sun – Sat	Here, There, Everywhere!	 National Chemistry Week. <i>Your Home: It's All Built on Chemistry.</i>
2006	October	26	Thu	Chemical Abstracts Service	ACS President-Elect visits Columbus
2006	November	TBA	TBA	TBA	Section Meeting with travel awards for college students
2006	December	TBA	TBA	TBA	Joint meeting with Columbus Section of AIChE
2007	March	25-29	Sun – Thu	Chicago	233 <sup>rd</sup> ACS National Meeting.
2007	August	19-23	Sun – Thu	Boston	234 <sup>th</sup> ACS National Meeting.
2007	October	21-27	Sun – Sat	Here, There, Everywhere!	National Chemistry Week. <i>The Many Faces of Chemistry</i>
2008	June	TBA	TBA	Columbus	Central Regional Section ACS Meeting, sponsored by Columbus Section and The Ohio State University (Contact: Jimmy Cowan, <a href="mailto:cowan@chemistry.ohio-state.edu">cowan@chemistry.ohio-state.edu</a> )
2008	October	19-25	Sat – Sun	Here, There, Everywhere!	National Chemistry Week. <i>Chemistry and Sports.</i>



### **About *The Chemical Record***

*The Chemical Record*, official newsletter of the Columbus Section of the American Chemical Society, Inc., is published monthly, September-December and February-May (eight issues per year.) Opinions expressed by editors or contributors do not necessarily represent the official position of the Columbus Section or of the editorial staff. We welcome your contributions to your *Chemical Record*. Please submit them via postal or electronic mail to George Greene, PO Box 360941, Columbus, Ohio 43236-0941, [chemicalrecord@yahoo.com](mailto:chemicalrecord@yahoo.com). Electronic mail contributions should be in MS Word file attachments (preferred) or plain-text messages. When preparing electronic documents, please remember that you are no longer using the old Remington typewriter so you do not need to add a carriage return at the end of each line. *Thank you very much!*

### **Change of Address**

Changes in postal or e-mail address should be reported to the Membership Chair, George Noethlich, 2740 Bella Via Avenue, Columbus OH 43231-2305, e-mail [gnoethlich@wowway.com](mailto:gnoethlich@wowway.com). George will forward the change-of-address information to ACS Headquarters.

### **Advertising Rates**

Advertising rates for *The Chemical Record* are as follows (per single insertion): Full Page, \$250; Half-page, \$150; Quarter Page, \$120; Eighth Page: \$60; Business Card, \$50. Discounts: 5% for four insertions or 10% for eight insertions during a calendar year.

### **Section E-Mail Routing**

Please send items for distribution to the Section e-mail list to Stephen Renner ([srenner@cas.org](mailto:srenner@cas.org)) and Maria Rosenthal ([mrosenthal@cas.org](mailto:mrosenthal@cas.org)). Maria and Stephen will perform any necessary formatting then they will forward the message to John Todd, Electronic Communications Coordinator, for distribution. If you would like to be added to the e-mail distribution list, please contact John Todd ([jtodd@cas.org](mailto:jtodd@cas.org))



### ***THE CHEMICAL RECORD***

Columbus Section of The  
AMERICAN CHEMICAL SOCIETY, INC  
P.O. Box 82181  
Columbus, OH 43202