



# The Chemical Record

Volume 46, Number 3 - April, 2004  
Columbus Section of the American Chemical Society, Inc.  
*George W. Greene, Editor*

<http://www.acscolumbus.org/>

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## **MEETING NOTICE**

COLUMBUS SECTION OF THE AMERICAN CHEMICAL SOCIETY, INC.

MEETING # 793

Thursday, April 15, 2004

*AT GRAYSTONE WINERY IN THE BREWERY DISTRICT*

544 South Front Street, Columbus, OH 43215

614.228.2332

<http://www.wmgraystonewinery.com>

### **Schedule**

5:30 p.m. Executive Committee Meeting.

6:30 p.m. Wine Tasting Program

7:00 p.m. Dinner

### **WINE TASTING PROGRAM**

Features four tasting portions of four wines selected and presented in an entertaining half-hour program by proprietor Jane Scott or a wine steward.

### **WINERY DINNER BUFFET**

Pecan Chicken – tender boneless breast of chicken rolled in pecans, baked, then topped with cherry cinnamon sauce and served with garlic mashed potatoes and fresh seasonal vegetables.

North Atlantic Salmon Filet – Salmon filet delicately poached in Wm. Graystone's White Roses wine and served with a creamy white wine dill sauce, seasonal vegetables and herb rice.

Vegetarian Lasagna – Portabello mushrooms and fresh Italian vegetables with mozzarella, provolone and ricotta cheeses, served with marinara sauce and seasonal vegetables.

Included: salad, dinner rolls, non-alcoholic beverages, and array of gourmet desserts.

### **COST**

The combination of Wine Tasting and Dinner is a \$40.00 value. We have negotiated with Graystone as follows. Options are either one or both items. The cost of each item for ACS Members and nonmembers is: Wine Tasting Program - \$10.00 Dinner \$22.00; Retired and Unemployed, Wine Tasting Program \$10.00, Dinner \$20.00; Students: Wine Tasting Program \$10.00, Dinner \$8.00.

### **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:

[acscols@cas.org](mailto:acscols@cas.org)

### **\*VOICE MAIL/e-mail TEMPLATE**

First and last name: please spell last name.

Membership category: member, retired, emeritus, unemployed, student, other.

Employer.

Options: Wine tasting only OR Both, wine tasting and dinner.

Menu Choice: please indicate if vegetarian. Other items will be served to all.

Your phone number, in case we have to contact you.

**Reservations deadline: Thursday, April 8, 2004.**

Your reservation is a dinner order that must be paid. Please help us to control costs by honoring your order.

**Program Contact**

Steven Rosenthal

E-mail: [srosenthal@cas.org](mailto:srosenthal@cas.org)

Phone no. 614.447.3600 x 2070.

**Directions**

Travel to downtown, take High Street south through downtown and across I-70, then turn right onto Blenkner Street, go one full block to Front Street and turn left. Graystone is two buildings to the south at 544 South Front Street.

**Parking**

On-street parking at meters is free after 6 p.m. Brewery District parking garage on Blenkner Street between High and Front. \$4.00. Grange Insurance Lot, at Sycamore and Front, one block south of Winery. Evening only.

## **Columbus Technical Council High School Student Awards Banquet**

By Jerry Boone, Intersociety Activities

This will be the 24th Annual Science Students Awards Program. The goal of this program is to recognize the achievements of high school science students and to encourage the students to follow science careers.

Awards are made to the students in three categories. 1) Each school nominates a student as their "Outstanding Science Senior," 2) student research papers are submitted to the various professional societies for society awards, and finally 3) one of the student research papers is judged as "Science Student of the Year."

This year, the professional societies will award \$2,000 in cash awards to the deserving students. The ACS will present an award for the outstanding chemistry-related research paper.

The "Science Student of the Year" receives a plaque and a \$500 cash award.

The speaker will be Dr. Allison Snow, a plant biologist who won the "2003 *Scientific American* Leaders in Agriculture Award." Dr. Snow will talk on her research on "Super Rice." "Super Rice" is a genetically-modified rice designed to increase the yield and resistance to disease and insects.

Each year, nominations from the member professional societies are submitted and one is chosen to be "Technical Person of the Year."

You are invited to come and meet the outstanding high school science students at the Columbus Technical Council Awards Banquet on April 28 at the Clintonville Woman's Club. The Clintonville Woman's Club is located at 3951 North High Street (just north of the Park of Roses.) The banquet social hour begins at 6:00 PM and dinner is at 6:30 PM. The price of the dinner is \$15.00 with the menu choices of beef, chicken, or vegetable lasagna.

Please e-mail your reservations to [ehlerta@SquareD.com](mailto:ehlerta@SquareD.com). Please include your menu choice. Reservations are due by April 17.

## More About the Graystone Winery (April Meeting Location)

From <http://www.wmgraystonewinery.com>



You're about to discover one of the most beautiful places in Columbus - Wm. Graystone Winery, nestled in the hand-hewn limestone vaults of a previous brewery in the heart of the historic Brewery District. Not your run-of-the-mill banquet facility, the Wm. Graystone Winery is like no other atmosphere in Columbus. If your gathering requires a unique, signature space, you and your guests will be highly impressed by the Graystone.



The Wm. Graystone Winery offers ambiance, romance, and history with its low arched ceilings and stone walls. The building dates from 1875 when Nick Schlee, a German immigrant brewer, was competing with the famed brewers of Milwaukee and Cincinnati. Opened in the Brewery District in 1990, The Graystone actually makes a small amount of wine on the premises, but the majority is from its sister winery, The Wyandotte Winery on the north side of Columbus

We are delighted to invite you to host your guests and business associates in this charming rediscovered space. We can accommodate 100 guests for a full meal in our larger banquet room, 80 and 60 in two smaller rooms, and up to 225 for dinner, receptions, wine tasting, or open houses using the entire winery.

## NEW SECTION MEMBERS

Compiled By George Noethlich, Membership Chair

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

ABUL KM ANISUZZAMAN  
GEOFF A. BABBITT  
NICHOLAS T. BASTA  
NATHAN J. BEGUE  
CONSTANCE M. BRETT  
YOUNGJOO BYUN  
CHUN AN CHEN  
KOHJI CHIHARA  
STUART COOPER  
ROBERT S. DAILEY  
ROSS EDGAR DALBEY  
AMY DICKINSON  
SRINIVASULU DODDAGA  
JOHN D. DUNHAM  
ASHMEED ESACK  
CHARLES FISHER  
MATTHEW GARDLIK  
MONICA GIUSTI  
TOD GUNDRUM  
SRINIVAS R. GURRALA  
JUI-WEN HUANG  
MINGCHUAN HUANG

WEI CHO HUANG  
SANG HOON JOO  
RUHNAZ KASHFI  
SETH KERECHANIN  
MARK J. KONTNY  
ROGER G. KUSSOW  
QIANG LU  
MOLLY KAY MALONEY  
ANDREA MARKEY  
EUGENE J. MEZEY  
APRIL MILLER  
MATT D. NILSEN  
JEFFREY TODD NORRIS  
BULBUL PANDIT  
NATHAN J. PATMORE  
TREVOR A. PETREL  
GREGORY SCOTT PHILLIPS  
KUMARESWARAN RAMAIAH  
JAMIE S. RICHEY  
LUIS E. RODRIGUEZ SAON  
AMANDA SCHLIE  
DAVID M. SCHWOPE

TRAVIS H. SEFZIK  
NEELIMA SHARMA  
MICHAEL SHELDON  
GANG SHEN  
CHUNG-WAI SHIAU  
CHIORI SHIMIZU  
MICHAEL SUMNER  
CHETAN N. SURYAWANSHI  
ZIQI SUN  
JOHN TANSEY  
MICHAEL D. TRIPLETT  
SCOTT T. WALSH  
ANDREW L. WASHINGTON  
KEVIN ANDREW WARD  
MARTY WICKS  
DIANA K. WILDING  
MICHAEL WINSTON  
HESHENG ZHANG  
HUADING ZHANG  
LIZHI ZHU

## 2004 COLUMBUS SECTION ACS CALENDAR OF EVENTS

*Compiled by Maria Rosenthal*

<b>March</b>	23	Mentoring Information meeting – OSU
	24	Local Chemistry Olympiad Exam
	29-Apr 1	ACS National Meeting, Anaheim
<b>April</b>	TBA	National Chemistry Olympiad Exam
	15	Wine Tasting at Greystone Winery, with introduction and comments on winemaking, sampling of selected wines, and dinner.
	22	CHEMISTS CELEBRATE EARTH DAY. Theme: What do you know about H <sub>2</sub> O? Unifying Event: Testing Rain Water
<b>May</b>	8	State Science Day - ACS Awards
	TBA	Annual Awards Banquet: Columbus Section Award, High School Chemistry Teacher of the Year

<b>June</b>	2-4	Central Regional Meeting, Indianapolis
<b>August</b>	22-26	National Meeting, Philadelphia
<b>October</b>	6 17-23 TBA	Dr. William Carroll, ACS President-Elect, visits the Columbus Section NATIONAL CHEMISTRY WEEK THEME: HEALTH AND WELLNESS Mini-Meeting with Dr. Alfred Bader
<b>November</b>	TBA	Family Event
<b>December</b>	TBA	Joint meeting with AIChE

## CAREER OPPORTUNITIES

### *Anthony-Thomas Candy Company, Columbus, Ohio*



The following position will be available in June, 2004:

**Position Title**

Quality Assurance Technician

**General Summary**

Assist with Quality Assurance activities under the supervision of the Director of Quality Assurance. Responsible for sampling and checking incoming materials, reviewing process documentation, and inspecting finished product including packaging / labels. Typically maintains the retain-sample inventory and arranges to have samples sent to various customers. Responsible for periodic environmental micro sampling and compiling micro data on incoming and finished products. The QA Technician makes sure that all HACCP criteria are met, and they may be responsible for the release of finished product.

**Essential Job Functions**

Inspects and samples incoming ingredients to determine whether they meet specifications and quality standards, and recommends corrective action if necessary.

Reviews certificates of analysis or test reports to determine validity.

Monitors the use of GMPs (Good Manufacturing Practices) throughout the production facility.

Evaluates finished product in terms of sensory attributes, net weight and appearance. Routinely inspects finished product packaging (including wrappers, inner, and outer cases) as well as the accuracy of labels.

Assists with the training of operators to understand and carry out their quality control functions

Investigates complaints of non-conforming product and recommends corrective actions.

Conducts periodic audits of the entire facility with regard to pest control.

Operates basic laboratory equipment, and computers (Microsoft Word, Excel, Outlook).

Assists with some product development and translates findings from data generated in the plant into product improvements.

Collects environmental samples for microbiological testing. Complies and maintains micro data. Recommends changes and or improvements in cleaning/sanitation where necessary.

Monitors inventory level of various supplies and materials and makes arrangements for replacement when established re-order points have been met.

Cleans and sanitizes laboratory equipment and calibrates thermometers.

**Scope of Responsibility**

Knows the formal, and informal, policies and practices necessary for specific work areas.

**Decision Making**

Carries out duties and responsibilities with limited supervision. Makes decisions and establishes work priorities that are consistent with the schedule of the manufacturing operation.

**Authority**

Does not direct the activities of staff or a function.

**Communication**

Exchanges routine information in an appropriate manner requiring good oral and written communication skills.

**Education**

Required: High school diploma or GED with credits toward a college degree

Preferred: Bachelor's degree in Food Technology and Science, or a related field

**Personal Requirements**

Work produced is subject to precise measures of quantity and quality. Candidate must have an eye for detail.

Work environment may occasionally include areas of moderate levels of cold or heat (40-110 F).

Occasionally lifting, carrying, objects weighing 50 lbs or less as well as standing or walking for extended periods of time.

Methodical approach to problem solving

Safety conscious

This description is a general statement of required major duties and responsibilities performed on a regular and continuous basis. Other duties may be assigned. Scheduled hours will vary according to production requirements and may include evenings.

<http://www.anthony-thomas.com/>

**Cornerstone Research Group, Inc., Dayton, Ohio**

Looking for Creative Chemists

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Cornerstone Research Group (CRG), located in Dayton, Ohio, specializes in research and development 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.

Cornerstone Research Group is seeking creative scientists. Candidates will support state-of-the-art research and development in one or more of the following areas:

- 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

CRG is a unique collaborative, multidisciplinary research company using an open, matrixed management approach. We are looking for additions to our growing, dynamic team of research professionals who work with a variety of innovative technologies, materials, and processes. The people we seek should be self-confident, be self-motivated, and have the ability to deal well with changing priorities in a fast-paced entrepreneurial setting.

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

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

— No hard copy résumés or walk-ins, please. —



## Earth Day: Go for the Green

By Lynn Willis

Thursday, April 22, is Earth Day. In the words of the Earth Day Network, it is a chance to realize that "our common home is precious, perishable, and belongs to all of us." Earth Day has been celebrated for 32 years in the United States, but the concept of a day to celebrate the environment has been around for longer. According to Senator Gaylord Nelson, founder of Earth Day, "The idea for Earth Day evolved over a period of seven years starting in 1962." During this time, Nelson had spoken to a variety of audiences about the increasing problems with pollution and environmental degradation, but "The environmental issue simply was not to be found on the nation's political agenda. The people were concerned, but the politicians were not."

In September 1969, he announced that there would be a nationwide grassroots demonstration championing environmental issues in the spring of 1970 and invited everyone to participate. He received overwhelmingly positive response to his announcement: "[The movement] took off like gangbusters. Telegrams, letters, and telephone inquiries poured in from all across the country. The American people finally had a forum to express its concern about what was happening to the land, rivers, lakes, and air-and they did so with spectacular exuberance."

The secret to getting politicians interested was to get everyday people involved. "Earth Day worked because of the spontaneous response at the grassroots level. We had neither the time nor resources to organize 20 million demonstrators and the thousands of schools and local communities that participated. That was the remarkable thing about Earth Day. It organized itself."

Today, Earth Day is more popular than ever. The best way to celebrate Earth Day is to get involved. Recycle your plastic containers, plant a tree, send an Earth Day e-card, play an online game with an environmental twist, write a letter about an environmental issue to your elected officials, or participate in an Earth Day celebration in your neighborhood.

Reducing our "environmental footprint"-people's negative impact on the environment-is the goal of both Earth Day and green chemistry. Paul Anastas of the Environmental Protection Agency describes green chemistry as "the design of chemical products and processes that reduce or eliminate the use and generation of hazardous substances." In other words, chemists think of ways to create the materials that we need in a more efficient and environmentally friendly way.

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In his book *Green Chemistry: Theory and Practice*, Anastas outlines the 12 principles of green chemistry. These principles include the following:

- Prevention-It is better to prevent waste than to treat or clean up waste after it has been created.
- Atom Economy-Synthetic methods should be designed to maximize the incorporation of all materials used in the process into the final product.
- Less Hazardous Chemical Syntheses-Wherever practicable, synthetic methods should be designed to use and generate substances that possess little or no toxicity to human health and the environment.
- Designing Safer Chemicals-Chemical products should be designed to effect their desired function while minimizing their toxicity.

For scientists practicing **green** chemistry, everyday is Earth Day.



## Milli's Safety Tips

from *Celebrating Chemistry*

Here are some tips from "Milli Mole," the Kids and Chemistry mascot, for children's chemistry activities:

The logo for National Chemistry Week features a blue beaker with a red and yellow flame. Above the beaker are several colorful stars in blue, yellow, and red. The text "national chemistry week" is written in blue, red, and yellow below the beaker.	<p><b>Always...</b></p> <ul style="list-style-type: none"><li>• Work with an adult.</li><li>• Read and follow all directions for the activity.</li><li>• Read all warning labels on all materials being used.</li><li>• Wear eye protection.</li><li>• Follow safety warnings or precautions, such as wearing gloves or tying back long hair.</li><li>• Use all materials carefully, following the directions given.</li><li>• Be sure to clean up and dispose of materials properly when you are finished with an activity.</li><li>• Wash your hands well after every activity.</li></ul> <p><b>Never</b> eat or drink while conducting an experiment, and be careful to keep all of the materials used away from your mouth, nose, and eyes!</p> <p><b>Never</b> experiment on your own!</p>
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For more detailed information on safety go to [chemistry.org/nw](http://chemistry.org/nw) and click on " Safety Guidelines" .

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### About *The Chemical Record*

*The Chemical Record*, official newsletter of the Columbus Section of the American Chemical Society, 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. 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, [george.greene@abbott.com](mailto:george.greene@abbott.com). Electronic mail contributions should be in plain-text messages or in Word 97 (or earlier release) file attachments. Please do not add unnecessary spaces and carriage returns in the bodies of the paragraphs, etc. *Thank you very much!*

***Deadline for Contributions to the May issue of The Chemical Record:  
Friday, April 9, 2004***



**HOGARTH  
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## 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@wideopenwest.com](mailto:gnoethlich@wideopenwest.com). George will forward the change-of-address information to ACS Headquarters.



Columbus Section Of The  
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