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**PROFESSOR JAMES A. COWAN RECEIVES THE COLUMBUS SECTION AWARD FOR 2010**

*By Lewis Hogarth*

The Columbus Section Award Committee is very pleased to announce that Dr. James A. Cowan, Professor of Chemistry at The Ohio State University, is the 2010 recipient of the Columbus Section Award. Dr. Cowan is well-known and a pioneer in the field of bio-inorganic chemistry, and his discoveries have resulted in the production of many refereed publications and several patents. He has also served the Columbus Section as Treasurer-Elect, Treasurer, Chair-Elect, Chair, and Councilor, and was General Chair of the 2008 meeting of the Central Region of the American Chemical Society (CERMACS 2008.) Dr. Cowan will be honored at the May 26, 2010 meeting of the Columbus ACS Section.

This award is given every two years to a scientist who has carried the chemical sciences in new and original directions. The nominee may be in any field associated with chemistry, viz chemical engineering, electrochemistry, coatings, astrochemistry, etc., and must have made, in the opinions of the nominators, significant contributions. Previous nominees have accomplished significant work in the areas of inventions and patents, research and development in environmental chemistry, advances in organic synthesis and the development and use of chemical coatings.



Each nomination must be backed up with at least the following: a minimum of three letters of support, a statement of the nominee's achievements, a list of patents and publications, a biography of the nominee, a nomination cover letter by a member of the local section, and any other information considered salient. Dr. Cowan will receive a medal, a check and a plaque which may be kept for two years until the next award.

Professor Cowan joins the following group of elite scientists who have won the Columbus Section Award:

Year	Awardee	Affiliation	Year	Name	Affiliation
1976	Melvin L. Newman	The Ohio State University	1990	Sheldon G. Shore	The Ohio State University
1977	Rodger L. Foltz	Battelle Memorial Institute	1992	Andrew Wojcicki	The Ohio State University
1978	Daryle A. Busch	The Ohio State University	1994	Harold Shechter	The Ohio State University
1979	Leo A. Paquette	The Ohio State University	1996	Terry B. Mazer	Abbott Labs, Ross Products Division
1980	Fred A. Tate	Chemical Abstracts Service	1998	Horatio Krause	Battelle Memorial Institute Retired
1981	Jack G. Calvert	The Ohio State University	2000	David J. Hart	The Ohio State University
1982	Bill M. Culbertson	Ashland Chemical Company	2002	Umit S. Ozkan	The Ohio State University
1983	Leon M. Dorfman	The Ohio State University	2004	Susan Olesik	The Ohio State University
1984	Robert I. Leininger	Battelle Memorial Institute	2006	George Pilcher	Akzo Nobel Coatings
1986	Carl F. Sievert	Capital University	2008	Val Metanomski	CAS
1988	Kenneth W. Greenlee	ACS Small Chemical Business Division – Retired	2010	James A. Cowan	The Ohio State University

The 2010 Columbus Section Award Committee comprised Chair **Lewis Hogarth**, Ohio Dominican University and Hogarth Chemical Consulting; **Michael McBride**, GFS Chemicals, and **Gordon Renkes**, The Ohio State University; and **George Greene**, Abbott Laboratories. We congratulate Dr. Cowan for his extensive contributions within this field and the addition of the Columbus Section Award to his list of accomplishments.

## MEETING NOTICE

<p>Columbus Section of the American Chemical Society, Inc. <a href="http://columbus.sites.acs.org">http://columbus.sites.acs.org</a></p> <p><b>Program: Presentation of the 2010 Columbus Section Award including a Talk on <i>Iron Chemistry for Life and Health</i></b></p> <p><b>Dr. James A. Cowan</b></p>		<p><b>Wednesday, May 26, 2010</b> <b>6:00 PM</b></p> <p>Ohio Dominican University 1216 Sunbury Road Columbus, OH 43219 <a href="http://www.ohiodominican.edu">www.ohiodominican.edu</a></p>	
5:00-6:00PM	Executive Committee Meeting (open to all members)		
6:00-6:45 PM	Reception: Hors d'oeuvres and beverages. Beer and wine will be available at the cash bar.		
6:45-7:30 PM Dinner	Rosemary Chicken or Vegetarian Herbed Penne Pasta with mixed green salad, Rolls and Butter, Sautéed Vegetables, and desserts, coffee and tea.		
7:30-8:30 PM Program	<p><b><i>Iron Chemistry for Life and Health</i></b> <b>Dr. James A. Cowan</b></p>		
Cost	<p>\$25 per person members and non-members, \$20 for retired and unemployed members, \$10 per student. Payment will be collected at the door; cash and checks accepted. <b><i>Remember that this is a dinner order and must be paid. Please help control costs by honoring your order.</i></b> There is no charge to attend the program only.</p>		

RSVP	Please use the voice mail reservations service by calling 614-447-3600 extension 7047. Follow the template for reservations*. Alternatively, please send e-mail with the same information to The Columbus Section at the following e-mail address: <a href="mailto:acscols@earthlink.net">acscols@earthlink.net</a> or use the Meeting Reservation form on the web site <a href="http://columbus.sites.acs.org">http://columbus.sites.acs.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, non-member, retired, emeritus, unemployed, student, other.</li> <li>• Employer or college/university.</li> <li>• Your choice of entrée, Chicken or Vegetarian</li> <li>• Your phone number, in case we need to contact you.</li> </ul>
Reservation Deadline	<b>Wednesday, May 19, 2010 at noon.</b>
Program Contact	Steven N. Rosenthal 614-447-3600, ext 2070, <a href="mailto:srosenthal@cas.org">srosenthal@cas.org</a>
Directions	<p>The Bishop James A. Griffin Student Center at Ohio Dominican University is located on the west side of Sunbury Road. An abbreviated set of directions is given below. A more complete set of directions to <a href="http://www.odu.edu">Ohio Dominican University</a> is available online.</p> <p><i>From the South</i></p> <ol style="list-style-type: none"> <li>1. Take I-670 to the 5<sup>th</sup>. Avenue exit and get off there.</li> <li>2. Turn towards the Downtown (west) on Fifth Avenue and proceed through two traffic lights to Sunbury Road.</li> <li>3. Turn right on Sunbury Road (north) and continue through two traffic lights and an automatic pedestrian traffic light.</li> <li>4. Turn left into the parking lot at the next traffic light.</li> </ol> <p><i>From the North</i></p> <ol style="list-style-type: none"> <li>1. Proceed south on Sunbury Road from Morse Road.</li> <li>2. Go past the turns for Easton, and keep going until Ohio Dominican University brick buildings are seen on both sides of the road.</li> <li>3. Turn right at the traffic light and go into the parking lot.</li> </ol> <p><i>Once in the Parking Lot:</i></p> <p>Free parking is provided. Go forward through the parking lot and turn left in order to get to the southerly end. Find parking there near the new brick building. This building is the Bishop Griffin Student Centre. Enter the building by using the walkway between the brick structures and use the door on the right hand side. For the Executive Committee Meeting go upstairs to room #276 just at the top of the stairs. For the meeting, turn right at the top of the stairs and walk along the corridor to rooms 258, 259 and 260.</p>

### ABOUT THE SPEAKER

#### ***DR. JAMES A. COWAN, PROFESSOR OF CHEMISTRY, THE OHIO STATE UNIVERSITY***

Professor Cowan earned a B.Sc. (1st class Honors) degree in Chemistry from the University of Glasgow in 1983, and a Ph.D. in Organic and Theoretical Chemistry from the University of Cambridge in 1986. He was a NATO postdoctoral fellow with Professor H. B. Gray at the California Institute of Technology and joined the Ohio State faculty in 1988. He was promoted to Full Professor in 1996. His research interests lie at the interface of Chemistry and Biology, especially in the field of Bioinorganic chemistry, and have led to the publication of over 200 research articles, and three books. Professor Cowan has received numerous awards and honors, including the A. P. Sloan Foundation award, National Science Foundation Young Investigator, Johnson & Johnson Scholar Award, Camille Dreyfus Teacher Scholar, Leo Hendrik Baekeland award from the North Jersey Section of the ACS, Akron Section award of the ACS, and the OSU Distinguished Scholar award. He is an elected Fellow of the AAAS, ACS and RSC.

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## ABOUT THE TOPIC

### *IRON CHEMISTRY FOR LIFE AND HEALTH*

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Iron is one of the most abundant transition metals in living organisms and serves a variety of functional roles. This talk will focus on fundamental aspects of cellular iron chemistry and the relationship to human health -- including cofactor biosynthesis, iron trafficking, redox chemistry and iron sensors.

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## SUSTAINABILITY ENGAGEMENT EVENT

*By Steven Rosenthal*

Michelle Schott and Steven Rosenthal participated in the Sustainability Engagement Event (SEE) at the Spring 2010 ACS National Meeting in San Francisco. The theme of this meeting was *Chemistry for a Sustainable World*.

The following material was taken from a message sent to the participants of SEE:

On behalf of the American Chemical Society, we would like to thank you for your time and participation to help shape the ACS sustainability portfolio for the future. Your brainstorming and creative plans at the SEE represent the beginning of an exciting time, that will see the collaborative development of projects that can address the world's sustainability challenges through chemistry, as stated in Goal 3 of the ACS Strategic Plan. "Action teams" around ten sustainability projects were formed in these areas:

1. Linking Chemists with Non-Profit Service Organizations (e.g., Habitat for Humanity, Red Cross) that can Apply their Chemical Expertise
2. How Chemists Can Help with Major Recycling Efforts and Inspire the Public
3. Infusing Green Chemistry into the Curriculum
4. Greener ACS Meetings: Your Ideas
5. Sustainable Energy: Developing the Science and Technology
6. Suggest Policy Priorities for the ACS to Advocate (National, State, and Local)
7. Create Positive Viral or Buzz Marketing of Chemistry and Sustainability
8. Incorporating Sustainability into the 2011 International Year of Chemistry Celebration
9. Promote and Develop Programs and Materials to Bring Sustainability into K-12 Education
10. Avoid and Reduce Pollution through Chemistry: Minimizing Waste Streams

We ask for your continued involvement as we work together to make these projects into a reality.

Before April 23, we plan to post detailed information on the status of your project to an ACS Network Group (a link will be found at [www.acs.org/sustainability](http://www.acs.org/sustainability)). These groups will serve as a workspace for you and your colleagues to move the ideas forward and incorporate them within the ACS structure. In addition, we will be inviting all ACS members and stakeholders to join and lend their enthusiasm and contributions to the projects. Please feel free to invite your friends and colleagues to join in as well. We will be asking the action teams to start their meetings by May 15.

The SEE planning team will connect you with ACS resources to help realize the future that you and your team have begun to develop. You can reach us at [forum@acs.org](mailto:forum@acs.org). Thank you once again for making the ACS 2010 Sustainability Engagement Event a great success! Let's continue "Improving People's lives through the transforming power of chemistry."

Best Regards, Carolyn Ribes--Chair, 2010 Sustainability Engagement Event Planning Group

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## PUT CHEMISTRY ON THE CALENDAR IN 2011

*By Steven Rosenthal*



Next year is the International Year of Chemistry (IYC) and to celebrate, ACS is inviting the community – and this means you – to highlight everyday advances in chemistry, every day during 2011.

Through the IYC-2011 initiative *365: Chemistry for Life*, a different aspect of chemistry will be highlighted every day of 2011 on [www.acs.org](http://www.acs.org).

Submit ideas for a favorite element, compound, discovery, process, chemist, or chemistry innovation at [www.acs.org/iy2011](http://www.acs.org/iy2011), by June 30, 2010. Suggestions should fall into one of four categories: **energy, environment, materials or health**.

**Anyone may participate** – members, committees, divisions, local sections, high school chemistry clubs, student chapters, and staff. Selected submissions will receive recognition and an IYC-2011 pin and t-shirt. Please help us promote the 365: Chemistry for Life initiative in your communications with ACS members and constituents. For more information on IYC 2011, please visit [www.acs.org/iy2011](http://www.acs.org/iy2011).



## COLUMBUS SECTION CHEMISTS CELEBRATE EARTH DAY 2010

*By Steven Rosenthal and Jeffrey Trent*

The Columbus Section of the American Chemical Society (ACS) participated in the 40<sup>th</sup> Anniversary of Earth Day, on Thursday, April 22, 2010 at Franklin Park, 1777 Broad Street, Columbus, OH 43203-2040. This year's theme for Earth Day was *Plants-The Green Machines*. The Section inaugurated its new 10x10 pop-up tailgating tent for the occasion. The tent was decorated with posters, plants and environmental models. We were one of fifty booths at the park. There was a wide variety of companies, environmental groups, and government agencies represented.

The Section's activities, demonstrations and giveaways included:

1. Purple Cabbage pH color indicator solution visual changes with lemon juice, Windex, washing soda, Dish Soap, and Dry Ice bubbling through the solution.
2. Temporary Chemists Celebrate Earth Day tattoos.
3. Handing out the Celebrating Chemistry Literature.
4. Sunflower oil squeezed from sunflower seeds to operate a tiny oil lamp.
5. We had a limited number of Earth Day Squeeze Balls, Recycled Plastic Coasters, and Eviro-moles but plenty of Celebrating Chemistry and Tattoos to share.
6. Transferring plant pigments to **cotton cloth** with a hammer. This **flower pounding technique** was a smash hit and produced some stunning results.

Kudos goes to **Jeff Trent** for preparing these easy-to-do, impressive demos. We had hundreds of people stop and look at our demos and activities.

There were numerous environmental volunteer opportunities all around central Ohio on Saturday and Sunday, April 17 and 18, 2010. Worksites were listed on the [Update 2010](#) website. Volunteers who registered at the website prior to coming to the worksite were given a token to redeem for an ice cream or beer at the Earth Day Celebration. Congratulations to Green Columbus for organizing these events.

The section was also a WOSU Day Sponsor on Earth Day. Our sponsorship announcement ran at the following times 9:05 AM, 9:45 AM, 12:20 PM, 1:05 PM and 2:05 PM. The following message was used for the spot.

*Support for WOSU today comes from the Columbus Section of the American Chemical Society. Earth Day began 40 years ago on April 22, 1970 as a way to demonstrate support for a healthy environment, raise awareness about environmental issues, and remind people that we all need to contribute to a sustainable planet.*

For years, chemists have been promoting a better world through recyclable plastics, cleaner-burning fuels, phosphate-free detergents, environmental monitoring, and green chemistry initiatives. The American Chemical Society joined the Earth Day celebration on April 22, 2003. There have been annual Chemists Celebrate Earth Day (CCED) events ever since.

Our Earth Day Exhibit travelled to COSI on Saturday, April 24, 2010. It was on display in the atrium with a number of organizations interested in or advocating for alternative means of transportation, including Roll Bikes, the OSU C.A.R. engineering group, an engineering student who has invented an electric motor cycle, and the OSU ECO car. **The ACS booth emphasized that Plants make oils easily converted to BioDiesel, a renewable fuel fitting the COSI alternate energy theme.**

I would like to thank all the Volunteers who worked on the Earth Day Activities. Franklin Park Volunteers: **Jerri Dombrowski** (Scotts Lawn), **Jeff Norris** (Hi-Stat), **Priscilla Ratliff** (Columbus Section Immediate Past Chair), **Jason Ratliff**, **Michelle Schott** (Scotts Lawn), **Steve Rosenthal** (Columbus Section Chair) and **Maria Rosenthal** (CAS), **Jeff Trent** (Boehringer Ingelheim). COSI Volunteers: **Brian Peebles** (OSU Graduate Research Associate) and **Jeff Trent** (Columbus State Community College). Special thanks to **Jerri Dombrowski** who brought a variety of plants displayed at both venues.

The Columbus Section would also like to acknowledge the support of **The Scotts Miracle Gro Company** for their donation of plants for our exhibit.

CCED Reference Materials:

1. *Celebrating Chemistry, Plants-The Green Machines* with online supplemental articles and experiments at [www.acs.org/earthday](http://www.acs.org/earthday) under Students & Educators tab.
2. *The Science of Teaching with Natural Dyes* (2006) Jeanne M. Buccigross (ISBN: 1-4196-4104-2) Chapter 5 includes the flower pounding technique.
3. *Sustainable Solutions for Modern Economies* (2009) Edited by Rainer Hofer (ISBN: 978-1-84755-905-0) Chapter 9 Natural Fats and Oils including sunflower oil, and Biofuels Chapter 8 Green Fuels- Sustainable Solutions for Transportation.

4. *Power House sustainable living in the 21<sup>st</sup> century*, Thames& Kosmos (2001), Dr. Uwe Wandry. Experiment Manual p.46-51 includes the sunflower oil press and oil lamp. [www.thamesandkosmos.com](http://www.thamesandkosmos.com)
5. *The Essential Guide to Environmental Chemistry* (1996 reprint 2007), ISBN: 978-0-471-89954-9, George Schwedt.

## CALL FOR CANDIDATES

### *By Ron Mitchum, Section Nominating Committee Chair*

1500 of your fellow Local ACS members need your help. The Central Ohio Section of the American Chemical Society is one of the nation's largest sections. The section is one of the best endowed and funded, the section is one of the oldest, and the section has members which represent a wide cross section of [education](#), [industry](#) and [government](#).

The Local Section has leadership opportunities that will [promote your career](#) now and in the future. I know all the excuses, don't have time, it doesn't pay, I already pay a premium to be a member so why should I participate, I am already paying for leadership. Is that about it?

[Gear up for 2011 run for local office, be a leader not a follower, and be proactive in the society.](#)

The nominating committee is seeking nominees for the following positions, [Chair Elect](#), [Treasurer Elect](#), [Secretary](#), and [Councilor](#). To maintain broad representation of our section members we seek at least two nominees for each position. I hope you will consider running this year. You can obtain additional information, job descriptions and advice from past office holders by contacting me. The elections are held in November.

If you have any questions give me a call. Thank you.

[Ronald Mitchum- Nominating Committee Chairman](#)

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## PARTICIPANTS IN CHEMISTRY OLYMPIAD 2010

### *By Steven Rosenthal*

Participants in the local 2010 Chemistry Olympiad competition were as follows:

From row from left: Michael Clark, Justin Sherman, Kuanwei Tseng, Austen Smith.

Back row from left: Gautam Rangavajla, Jennifer Wallace, Sam Powell, Andrew Krieger.

Not shown: David Perez.

We congratulate these students on their accomplishments.



## CANDIDATES FOR NATIONAL ACS ELECTION, NOVEMBER 2010

*The Committee on Nominations and Elections (N&E) is pleased to announce the slate of candidates that will appear on the fall 2010 ballot. They are:*

*Candidates for President-Elect, 2011*

*Dr. Luis A. Echegoyen, Professor, Clemson University, Clemson, SC*

*Dr. Bassam Z. Shakhshiri, Professor, University of Wisconsin, Madison, WI*

*Candidates for District II Director, 2011-2013*

*Dr. George M. Bodner, Professor, Purdue University, West Lafayette, IN*

*Dr. Joseph R. Peterson, (Retired) Professor Emeritus, University of Tennessee, and (Retired) Oak Ridge National Lab, Knoxville, TN*

**COLUMBUS SECTION ACS CALENDAR OF EVENTS**

Year	Month	Date	Day	Location	Comments
2010	May	8	Sat	Ohio State University	 State Science Day 2010 <a href="http://www.ohiosci.org/ssd.htm">www.ohiosci.org/ssd.htm</a> Contact <b>Bob Kroshefsky</b> , <a href="mailto:bobkro@embarqmail.com">bobkro@embarqmail.com</a> or 937-707-9276 to volunteer to serve as a judge.
<b>2010</b>	<b>May</b>	<b>19</b>	<b>Wed</b>	<b>Noon</b>	<b>Deadline for reservations for May 26, 2010 Section Meeting.</b>
2010	May	26	Wed	Ohio Dominican University	Monthly Section Meeting and Presentation of 2010 Columbus Section Award to Professor James A. Cowan. See details elsewhere in this issue of <i>The Chemical Record</i> .
2010	June	16-19	Wed-Sat	Dayton Convention Center and Crown Plaza Hotel., Dayton, OH	<b>CeRMACS 2010</b> (Central Regional ACS Meeting) and presentation of <b>Patterson-Crane Award</b>
2010	August	22-26	Sun-Thu	Boston	240 <sup>th</sup> ACS National Meeting and Exposition
2010	September	21	Tue	TBA	Monthly Section meeting with <b>Professor LaShanda T. Korley</b> speaking.
2010	October	17-23	Sun-Sat	Here, There, Everywhere!	 National Chemistry Week: <i>Behind the Scenes with Chemistry!</i>
2010	October	21	Thu	CAS	Monthly Section meeting with Dr. Nancy Jackson, ACS Chair-Elect
2010	October	23	Sat	Here, There, Everywhere!	 6:02 AM – 6:02 PM: <b>International Mole Day</b> , in honor of Avogadro's Number.
2010	October	23	Sat	Columbus Metropolitan Library, Main Branch	Chemistry demonstrations for all ages with COSI on Wheels. Volunteers are needed to assist with the demonstrations; please contact <b>Professor John Blaha</b> , <a href="mailto:jblaha@cscce.edu">jblaha@cscce.edu</a> , if you are interested.
2010	October	29-31	Fri-Sun	COSI	Festival of Chemistry
2010	December	TBA	TBA	TBA	Joint meeting with Columbus Section of AIChE and "New Year's Party" to ring in the <i>International Year of Chemistry</i>
2011	Jan-Dec				 International Year of <b>CHEMISTRY</b> 2011 <i>International Year of Chemistry.</i> See details in the March, 2009 issue of <i>The Chemical Record</i> .
2011	March	27-31	Sun-Thu	Anaheim	241 <sup>st</sup> ACS National Meeting and Exposition
2011	Aug-Sept	8/28-9/1	Sun-Thu	Denver	242 <sup>nd</sup> ACS National Meeting and Exposition
2012	March	25-29	Sun-Thu	San Diego	243 <sup>rd</sup> ACS National Meeting and Exposition
2012	August	19-23	Sun-Thu	Philadelphia	244 <sup>th</sup> ACS National Meeting and Exposition

*Have a SAFE and ENJOYABLE Summer!*



PHOTOGRAPHS FROM 2010 *CHEMISTS CELEBRATE EARTH DAY* EVENT AT FRANKLIN PARK CONSERVATORY  
*By Steven Rosenthal*



Jeff  
Norris



Jeff Trent

**DID YOU KNOW?**

2,464 gallons of water are used for the production of 1 pound of beef. It only takes 29 gallons of water to produce 1 pound of tomatoes, and 139 gallons to produce a 1 pound loaf of whole wheat bread.





PHOTOGRAPHS FROM APRIL, 2010 SECTION MEETING  
*By Steven Rosenthal*



*Top left:* Nationwide and Ohio Farm Bureau 4-H Center atrium. *Top Right:* Professor Jeff Trent educates and entertains the attendees, doing what he does best. *Bottom Left:* Bob Moffitt, Product Manager, Ashland Performance Materials in front of his display. *Bottom Right:* Tom Fontana, Director of New Use Development, Ohio Soybean Council, with his poster material.



### ABOUT *THE CHEMICAL RECORD*

*The Chemical Record*, official newsletter of the Columbus Section of the American Chemical Society, Inc., is published monthly, February-May and September-December (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, [george.greene@abbott.com](mailto:george.greene@abbott.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, **David Speth**, 614-688-5162, [drspeth@sbcglobal.net](mailto:drspeth@sbcglobal.net). David 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. There is no charge for "help wanted" ads.

### SECTION E-MAIL ROUTING

Please send items for distribution to the Section e-mail list to **Maria Rosenthal** ([mrosentha@cas.org](mailto:mrosentha@cas.org)). Maria will perform any necessary formatting then she will forward the message to **Robert Bird**, Electronic Communications Coordinator, for distribution. If you would like to be added to the e-mail distribution list, please contact Robert Bird ([rbird@cas.org](mailto:rbird@cas.org)).

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