

Columbus Section Of The  
American Chemical Society, Inc.  
*Chemical Record*  
P.O.Box 82181  
Columbus, OH 43202.

*Address Correction Requested.*

RATLIFF, MRS PRISCILLA  
ASHLAND CHEMICAL



# The Chemical Record

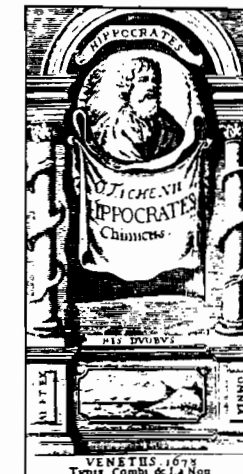
Volume XL, No. 4 May, 1998

## In This Issue.....

Meeting Notice, Columbus Section of the ACS, May 19, 1998.  
Message From The Chair  
Edward F. Hayes  
Obituary  
Kathleen Richardson  
High School Chemistry Students Honored  
Local ACS Section Awards College Students  
Summer To Nurture Science  
Summer Meeting Notice, June 27, 1998  
ACS Career Services  
State Science Day, 1998  
Columbus Technical Council Awards Banquet  
Meeting on 3D Structural Data  
Trace Element Analysis - A Lecture  
State Capitol Day  
Chemical Technicians Affiliate Group  
Advertisements  
A Panorama of ACS Board of Directors



*From Seibitz's Theatre. Draw. H. H. Hill*



Volume XL, No. 3, May 1998.

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Web Site = <http://www.cas.org/local/acscol.html>

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Editor: N. Parinandi (PARI), CAS (447-3600 X2160); Email:  
[nparinandi@cas.org](mailto:nparinandi@cas.org);  
Advisor: Wendy A. Reichenbach, CAS (447-3600 X3924); Email:  
[wreichenbach@cas.org](mailto:wreichenbach@cas.org);  
Business Manager: Mohammed Khan, CAS (447-3600 X3298); Email:  
[mkhan@cas.org](mailto:mkhan@cas.org)

**ATTENTION - NEXT CHEMICAL RECORD WILL BE PUBLISHED IN  
SEPTEMBER, 1998.**

Deadline for submission of articles is Friday, August 14, 1998.

**ADDRESS CORRECTIONS SHOULD BE SENT TO: RON HANEY, EMail:  
[haneyr@witco.com](mailto:haneyr@witco.com); Phone: 764-6551.**

### MEETING NOTICE

Columbus Section of the American Chemical Society, Inc.  
Meeting #744, May 19, 1998, Tuesday  
The Clintonville Woman's Club\*\*  
3951 North High Street  
Columbus, Ohio 43214  
614-268-5525

### THE COLUMBUS SECTION AWARD MEETING HONORING H.H. RAY KRAUSE

6:00 P.M. Reception: Punch and Cheese Tray  
Duets by Yueh-Chen Yen (OSU), Violin and Julia Yen (OSU), Piano

7:00 P.M. Dinner: Chicken Breast Stuffed with Herbed Cream Cheese,  
Fruit Salad, Glazed Belgium Carrots, Parsley-Buttered  
Potatoes, Raspberry Torte, and Beverage  
Vegetable Lasagna is available for Vegetarians. (Please  
indicate this choice when you make your reservation.)  
Tim Gordon (Whetstone High School) on the Grand Piano

8:00 P.M. Presentation of The Columbus Section Award  
Honoree: H.H. Ray Krause  
Program: "Highlights of 40 Years of Chemical Research"

Cost: \$15.00 Members and non-members.  
\$13.00 Retired and unemployed members and spouses.  
\$ 5.00 Students

Chicken is assumed when you make your reservation: if you  
want Vegetable Lasagna please indicate this.  
Also, please indicate retired/unemployed/spouse/student  
status.

The cost covers the price of the dinner. If you cannot  
attend the dinner, please feel welcome to attend the  
program at 8 PM.

Reservations: Call Meg Franks (447-3600 x2283) or email reservations to  
her at mfranks@cas.org. Please do not pay in advance. Checks will  
be collected at the door.

Reservations must be made by 1:00 PM, Thursday, May 7.  
Please - it is important that you observe this deadline.  
We will incur a financial penalty of \$5/person for late  
reservations - you will be asked to pay this if you are late!  
To cancel a reservation call Meg by 12:00 PM, Friday, May 8.  
No Cancellations can be accepted after that time.

EXECUTIVE COMMITTEE will meet at 4:30 PM on the day of the meeting at  
Chemical Abstracts Service.

Any section member is welcome to attend the business meeting.

## 1998 ACS BOARD OF DIRECTORS



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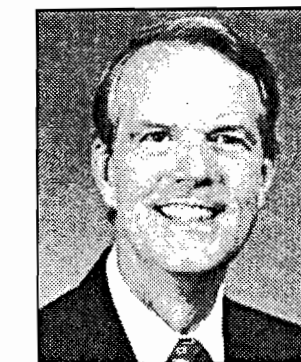
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# ACS Science Policy Fellowship



## Apply Now

The Fellowship offers a unique opportunity for a scientist or engineer to join ACS and

- gain first-hand knowledge of the operation of the legislative and executive branches of the federal government,
- develop nonpartisan Capitol Hill briefings and assist ACS committees in their work,
- complete a special science policy project for presentation.

The Fellowship is for one or two years. The Fellow receives an annual salary in the low \$40Ks. with an ACS benefits package, as well as a relocation allowance. ACS members at any point in their careers may apply. A Ph.D. is not a requirement.



Applications are due **January 8, 1999**. For more information and instructions on how to apply, please contact Deitra L. Jackson (202) 452-8917, e-mail: [d\\_jackson@acs.org](mailto:d_jackson@acs.org), or write ACS Office of Legislative and Government Affairs, 1155 Sixteenth Street, N.W., Washington, D.C. 20036.

**\*\*Directions to The Clintonville Woman's Club:**

The Clintonville Woman's Club is located just north of Whetstone Park on North High Street.

## About The Honoree, Dr. H.H. Ray Krause



*Dr. H.H. Ray Krause has degrees from St. Mary's of Minnesota and the University of Minnesota. During his 40-year career at Battelle Memorial Institute in Columbus, Ohio his work chiefly concerned chemical reactions under extreme conditions of temperature and pressure. This research involved: (1) Explosive reactions of molten salts and water; (2) Chemical syntheses in a radio-frequency plasma; (3) Formation of inorganic polymers under extreme pressure; (4) High temperature reactions in molten alkali metal salts; and (5) High temperature solid lubricants. For solid lubricants, he pioneered the concept of using thermodynamic properties of compounds to predict their usefulness as lubricants in high-temperature systems. He was one of the few scientists who studied chemical reactions under extreme pressure, of the order of 1 million psi. He has been one of the leading authorities on corrosion and deposit formation resulting from the combustion of coal, oil, or solid waste. Dr. Krause is a member of the American Chemical Society, and is the coordinator of the Visiting Scientist Program of the Columbus Section. He also is a member of the National Association of Corrosion Engineers, AAAS, and Sigma Xi. He has over 60 journal publications and many technical reports which reflect broad experience in chemistry and corrosion science.*

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## A MESSAGE FROM THE CHAIR

Every two years Columbus Section presents the prestigious Columbus Section Award to an individual who is outstanding in his technical field. Recent recipients of the award include Sheldon Shore (1990), Andrew Wojcicki (1992), and Harold Shecter (1994) all of the Ohio State University Chemistry Department, and Terry Mazer (1996) of Ross Laboratories. This year the Columbus Section Award Committee under the chairmanship of Lewis Hogarth has named H.H. Ray Krause as the 1998 recipient of the award. The award honors his many technical contributions to extreme-condition reactions during his forty year career at Battelle. He was Chair of Columbus Section in 1985, and has served on a number of committees for the section. He currently coordinates the Visiting Scientist program.

Ray and his wife will be our guests at our May 19th meeting at the Clintonville Woman's Club. He will receive his award at that time. His presentation will be entitled: "Highlights of 40 Years of Chemical Research". Mark your calendars for this very special evening!

Wendy Reichenbach, Chair, Columbus Section ACS

**EDWARD F. HAYES - VISIONARY, MENTOR, AND FRIEND.**



The Columbus Section of the American Chemical Society joins the Hayes family and The Ohio State University community in honoring the memory of Dr. Edward F. Hayes. He died at his home on March 20 at age 56. While he was taken from us suddenly and all too soon, his tremendous legacy remains and will enrich the science community forever.

Dr. Hayes joined The Ohio State University as Vice President for Research in 1991. True to his calling as a researcher and educator, he held a faculty position in the university's Department of Chemistry and continued as an active researcher and teacher in addition to his administrative role. This ongoing personal dedication and involvement in education and research contributed to the high esteem in which he was held by his students and colleagues. "He chose to lead science while doing science," said Richard Sisson, interim president of The Ohio State University. "Ed's loyalty to the values of teaching and research is an inspiration for us all."

Dr. Sisson recalled that "Ed took great pleasure in seeing a student in an undergraduate chemistry class go from utter confusion to confident understanding. And as an educator, he made it possible for dozens of bright, young people from around the world to study at the university's summer institute.

Dr. Sisson joined others in commending Dr. Hayes' role as head of research at the university. "He helped faculty members get funding for research that made a difference in our lives," Dr. Sisson said. Under his leadership, sponsored research at the university rose to seventh position in a national ranking of industry-sponsored research and development expenditures. "Ed was concerned with all aspects of research at the university, from undergraduate studies to scholarship in the humanities and arts to outreach and technology transfer," Dr. Sisson said. He had taken steps to strengthen the university's role in the licensing and transfer of technology to business and industry. He established the Office of Industrial Outreach and the Office for Industrial Research and Development, strengthened other offices that now are part of the Technology Partnerships Alliance, and was a driving force in efforts to establish the university's Science and Technology Campus.

"Those who worked with him were also impressed with his insight into problems - whether detailed technical problems of a scientific nature or more general concerns, such as implementing policies at the university or on the national level," said Terry Miller, Ohio Eminent Scholar in Chemistry and fellow faculty member. "Ed also was known to be a gentleman and a person of integrity," he said.

"He was my friend," said close friend and associate Dr. John Hall, executive director of The Ohio State University Research Foundation and associate vice president for research. "He was a role model, and actively made sure that everyone, regardless of differences, had an opportunity to have a say, to compete, and to be successful."

discuss such issues as the quality of K-12 science education, the levels of state funding for higher education, the Clean Air and Clean Water Acts, or what are "hazardous chemicals" and in what quantities they are hazardous. The ability of ACS, its local sections, and members to ensure that state laws and regulations are based on sound science and supportive of chemists and chemistry is central to the need and opportunity of a state-wide government relations program. ACS national staff will send information to you about ACS issues, your state legislators and how to make appointments to visit with them.

8:00-9:00 - Registration and Continental Breakfast; 9:00-10:00 - Lt. Governor Nancy Hollister (invited); 10:00-10:15 - Break; 10:15-11:00 - Panel on Science Education, Environment, and Technology; 11:00-12:00 - Advocacy Training; 12:00-1:00 - Lunch on Your Own; 1:00-4:00 - Meeting with Your State Legislators; 4:00-5:00 - Debriefing and Refreshments.

To Register, please fax or EMail: Manny Luttinger, Columbus, (614)424-3808; luttinger@battelle.org. A \$10.00 registration fee to help defray expenses for materials which will be collected on the day of the event. The fee is waived for students.

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**A CALL TO CHEMICAL TECHNICIANS - JOIN THE AFFILIATE GROUP!**

The Columbus Section is pleased to announce the re-activation of the Chemical Technicians Group. The Chemical Technicians Division of the American Chemical Society provides the support and services to this important sector of the chemical enterprise. Technicians will be able to add to their skills, thus making them more valuable to their employers. It will provide an environment for them to learn from other technicians and also allow them to share ideas, wants, and needs. The Columbus Section will facilitate the operations of a local Technicians Affiliate Group [TAG]. WE REQUEST THAT THIS COLUMN AND SURVEY BE MADE AVAILABLE TO CHEM. TECHNICIANS IN LABORATORIES AND PLANTS THROUGHOUT OUR TERRITORY. PLEASE MAKE COPIES AS NEEDED.

.....CUT.....CUT.....CUT.....  
 TECHNICIANS AFFILIATE GROUP INTEREST SURVEY.

1. I see a need for a Technician Affiliate Group [TAG] to be formed in this area.      yes \_\_\_\_\_ no \_\_\_\_\_
2. I would be interested in joining a TAG      yes \_\_\_\_\_ no \_\_\_\_\_
3. I am presently involved in a professional organization      yes \_\_\_\_\_ no \_\_\_\_\_  
 If yes, name of organization \_\_\_\_\_
4. I am interested in organizing/participating in:  
 \_\_\_\_\_ continuing education      \_\_\_\_\_ speakers  
 \_\_\_\_\_ recognition programs      \_\_\_\_\_ job forums  
 \_\_\_\_\_ career days at schools      \_\_\_\_\_ plant tours  
 \_\_\_\_\_ a newsletter      \_\_\_\_\_ social events
5. Ideas, suggestions for group activities: \_\_\_\_\_  
 [use additional pages as needed]
6. Comments: \_\_\_\_\_

Name \_\_\_\_\_  
 Address \_\_\_\_\_  
 Phone \_\_\_\_\_ Fax \_\_\_\_\_ e-mail \_\_\_\_\_

Please return completed survey by June 30, 1998.  
 To: Columbus Section ACS Attn: ChemTechs, P.O. Box 82181, Columbus, OH 43202  
 .....CUT.....CUT.....CUT.....

Terry Houston

received the Technical Person-of-the-Year Award from CTC. Dr. McQuigg has been a faculty member of OWU since 1965 and served as Chair of the Chemistry Department eleven years. As a physical chemist, he performed research in photochemistry, atmospheric chemical kinetics, and modeling. He teaches physical chemistry, organic and environmental sciences at OWU and directs many undergraduate student research projects. He was a Fullbright Senior Research Scholar at the Max Planck Institut fur Chemie, Mainz, (FRG) Germany, 1982-83. He also informs local municipalities and the general public to aid their understanding of the nature of local primary air pollutants by giving workshops and lectures.

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### MEETING ON 3D STRUCTURAL DATA IN CHEMISTRY

The Virtual Reality Special Interest Group of the Columbus Computer Society will have a meeting of interest to chemists. Dave Bower of Chemical Abstracts Service will speak on The Importance of 3D Structural Data in Chemistry Abstract: This presentation will be an overview of the importance of 3D structural data in the chemical industry and how there is a growing need for the ability to store, recall, display and manipulate these 3D structural representations. The 3D data can be used to supply researchers with a wide range of information starting with candidate compounds for inclusion in combinatorial libraries, to structure activity relationships derived from the structural data itself.

The meeting is Wed., June 3, 7-9 PM at Chemical Abstracts Service.

Mark Fischer

For further information, contact:

Dr. Mark B. Fischer Senior Associate Scientific Information Analyst

Work: mfischer@cas.org

Home: mfischer@freenet.columbus.oh.us

Phone: 614-447-3600 Ext. 3351

Fax: 614-447-3713

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### MARK YOUR CALENDARS

Thursday, September 24

Program: "The Use of Relative C12/C13 Ratios and Trace Element Analysis in Archaeological Studies."

Speaker: Annette Ericksen, The ASC Group

Tuesday, October 13

Speaker: Ed Wasserman, President-Elect, the American Chemical Society.

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### OHIO STATE CAPITOL DAY

Wednesday, May 13, 1998, 9:00-5:00.

Vern Riffe Center, Studio 3, 55 State Street, Columbus, Ohio.

State Capitol Day is an opportunity for you to join ACS members from throughout Ohio to meet with state legislators, the governor, and agency officials. This is a chance to build relationships and introduce the resources and expertise of ACS members to Ohio policymakers. You can

Dr. Hall added: "Many people will not realize how their lives were influenced by Ed Hayes. He used science to help people. He worked to help determine how laser research would be directed; to establish the Internet; to set policies for global environment issues; to determine how undergraduates could best be trained, and the list goes on. He was a smart man. His degrees, his positions are a testimony to that. But if Ed taught me one thing, it is that it's not how smart you are, it's how good you are."

As an active member of the Department of Chemistry faculty, Dr. Hayes led research in the quantum theory of molecular structure and the application of advanced computational techniques in quantum chemistry, molecular potential functions, intermolecular reactions, and scattering theory. His research group has also worked on new approaches and algorithms for massively parallel supercomputers and development of accurate quantum scattering methods that can be applied routinely to reactions involving more than three atoms. The research has led to development of powerful new computational methods for solving bound state vibration-rotation spectra of polyatomic molecules.

Dr. Hayes joined Ohio State after more than 20 years at Rice University, where he began as an assistant professor and concluded his service as vice president for graduate studies, research and information systems. He served two years at the federal Office of Management and Budget on special detail from the National Science Foundation (NSF) for the Executive Office of the President and held leadership positions with the National Science Foundation (NSF). Among those were Director of The Chemistry Division, comptroller, chairman of an NSF task force on the future of the supercomputer centers program, and membership on various NSF advisory committees.

Born in Baltimore, Md., Dr. Hayes earned a bachelor's degree in chemistry from the University of Rochester and masters and doctoral degrees in chemistry from The Johns Hopkins University. As a member of the American Chemical Society, Dr. Hayes took a leadership position in research and technology and government relations issues. He was a key contributor to the development of the "Technology Vision 2020, the U.S. Chemical Industry." He also encouraged the initiation of industrial relations activities of the section, which he envisioned to be a link between educators and chemical enterprises--both large and small--involved in developing technologies.

Dr. Hayes also contributed to the American Chemical Society on the local level. At his initiative and with his initial guidance, the Columbus Section established the State and Local Government Affairs Committee in 1996. The following excerpt of Dr. Hayes' address to the Columbus Section on February 22, 1996, reflects his comprehensive understanding of the importance of continued support for research, especially in the chemical sciences.

"In the past year there have been unprecedented changes in government. Federal support for research and education in the chemical sciences faces many challenges as Congress attempts to reduce the budget deficit and eliminate portions of the federal government. The ACS Committee on Chemistry and Public Affairs is taking the initiative to meet with local sections to help them better understand these challenges, and to brief ACS members on the budget outlook for the sciences.

"Tip O'Neil, the former Speaker of the House of Representatives, noted that all politics is local.' But, how can ACS members work with their elected representatives to strengthen federal support for representatives and education in the chemical sciences? We need to discuss the implications of congressional action on federal funding for research in the chemical sciences and other legislation that affects chemical professionals. We need to learn strategies for communicating support for science, from constituent letters to visits by Local Section representatives to elected officials."

It is a fitting tribute to Dr. Hayes' involvement in our section that the coalition of Ohio Sections was selected by the Office of Government Relations of the ACS to be the first to conduct a State Capitol Day, to be held on May 13, 1998.

*Anna Rzewnicki, The Ohio State University Research Foundation*

*Maria G. V. Rosenthal, Immediate Past Chair, Columbus Section, American Chemical Society*

## obituary

E. Thoburn Stone, school teacher for 45 years, passed away March 17 at Riverside Methodist Hospital at age 91. He had taught rural 8th grade from 1925-1928, taught 7th and 8th grade physics & chemistry at Byesville, Ohio for 13 years and taught at Columbus West High School for 29 years from 1942-1971. He had been honored as the High School Teacher of the Year by Columbus Section many years ago.

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## KATHLEEN RICHARDSON WINS AWARD

Dr. Kathleen Richardson, Chair of the Chemistry Department at Capital University has been named OUTSTANDING WOMAN IN SCIENCE 1997-8 by the Association for Women in Science of Central Ohio. Established in 1986, the award honors a woman who in the opinion of her peers has excelled in science through research, teaching and/or service. From a field of truly outstanding women scientists the Awards Committee selected Dr. Richardson based not only on her devotion to teaching and mentoring students but also on her coauthoring an exceptionally clear book in the field of physical organic chemistry. ACS members are cordially invited to the Awards Dinner which will take place at 7 pm on Wednesday June 3, 1998 at the Clintonville Woman's Club at 3951 N. High Street. The cost of dinner is \$15 for members/nonmembers and \$12 for students. Please make checks payable to AWISCO. For dinner reservations, which are due by May 27, please contact *Raquel Diaz-Sprague*, P.O. Box 14862 Columbus 43214 (268-1488) or email [diaz-sprague.1@osu.edu](mailto:diaz-sprague.1@osu.edu).

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## LOCAL HIGH SCHOOL CHEMISTRY STUDENTS HONORED

On Friday, April 24, Columbus Section honored six local chemistry students for their participation in the annual ACS Chemistry Olympiad. The 1998 honorees include second year chemistry students:

David McIlroy (\$50) Upper Arlington HS  
Nikhil Dutta (\$30) Thomas Worthington HS  
Heather Ward (\$20) Upper Arlington HS

and first year chemistry students:

Philip Kilanowski (\$50) Dublin Coffman HS  
Jonathan Fan (\$30) Upper Arlington HS  
Rick Jandrain (\$20) St. Charles Preparatory School

Honorees David McIlroy, Nikhil Dutta, Heather Ward, and Philip Kilanowski, as well as Sung Lee (Worthington Kilbourne HS), Gabriel Chong (Thomas Worthington HS), Ryan Dickson (Philo HS), Julie Keuper (Columbus Alternative HS), Brady Phillips (Fredricktown HS), and Arun Goel (Worthington Kilbourne HS) took the national ACS Chemistry Olympiad exam at Chemical Abstracts Service on Friday, April 24. The exam was administered by Judy Sheperd, chemistry teacher at Hilliard High School and Chemistry Olympiad Chair for the Columbus Section.

## STATE SCIENCE DAY 1998

State Science Day (SSD), a program of the Ohio Academy of Science, was held at Ohio Wesleyan University in Delaware, Ohio, on Saturday April 18. This was the 50th anniversary of SSD. Over 1000 students from all over Ohio, in grades 7-12, competed for awards. This is the first year that the Columbus Section of ACS has sponsored awards for this event. We were extremely pleased that 86 students had registered for consideration for the ACS awards. The ACS judges were Lucile E. Decker, CAS, Coordinator; Patricia Connick, Chair, Natural Sciences Division, and Senior Chemistry major Joshua Hertcz from Ohio Dominican College; Tom Weeks, retired, Ashland; K. Y. Craft, Battelle; Maria and Steve Rosenthal, CAS; Lewis Hogarth, consultant; and Jeff Suggs, NET labs in Indianapolis (a new position). Jeff's 11-year old son Jason, not a judge, also attended SSD for the third year. There were a lot of interesting projects and we judges had a busy morning judging all 86 projects. Next year we will definitely need more judges, and we hope to interest the rest of the ACS sections in Ohio in sponsoring awards in 1999. In the grades 7-9 category, Stephanie M. Gleason, Southeastern H.S., South Charleston, won first prize; and Jill Anderson, Waverly H.S., Waverly, won second prize. In the grades 10-12 category, Stacy L. Hoehn, Ottoville H.S., Ottoville, won first prize, and Shahrzad Emami, Catholic Central H.S., Steubenville won second prize. The prizes were \$200. for first place and \$100. for second place. The awards ceremony was held in the afternoon in the OWU field house; the ACS was 134 of 138 Sponsored Awards so it was a long day!

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## COLUMBUS TECHNICAL COUNCIL AWARDS BANQUET

The Annual Awards Banquet of the Columbus Technical Society (CTC), an umbrella organization of scientific organizations in Central Ohio, including the Columbus Section of ACS, was held on Wednesday evening, April 22, 1998. The banquet honors students who have completed science projects, their teachers and their parents. Middle schools that have received grants from the CTC for science projects also attend. Outstanding senior students, selected by their respective high school science teachers are honored. In addition, CTC presents three Outstanding Senior Awards, based on presentation of research papers by the students. These awards are funded by the corporate sponsors of CTC. Three high school seniors received Outstanding Senior Awards. Mark Smith of Bloom-Carroll High School, Carroll, received the third place award for his research paper entitled "An Empirical Study of the Effectiveness of Selected Lossless Compression Algorithms", his advisor is Mrs. Diane Gabriel. Mark's research involves using archivers to compress computer files. A program which compresses a test file to the greatest extent is the program with the most effective algorithm. Mark plans to study for a Computer and Information Science Degree at Ohio State University. Second prize was won by Kris R. Jatana, Upper Arlington H.S., Mrs. Peggy Sheets, Advisor. Kris's paper was on "Ornithine Decarboxylase Gene in Head and Neck Cancer". Kris plans to attend college, then Medical School and continue research. First prize was won by Ross C. Larue of Teays Valley H.S., Groveport. Ross's paper is "Biological Energy in the Sewage Sludge Compost Battery". Ross received a U.S. patent on this novel idea, granted December 30, 1997. The battery utilizes Sewage Sludge Compost for electrical energy production generated by oxidation-reduction reactions. Ross's advisor is Ms. Judy Hall Walley; Ross plans to attend OSU next year and study Animal Science. Ross also won the award in Chemistry from the Columbus Section.

Dr. Robert D. McQuigg, Professor of Chemistry at Ohio Wesleyan University, Delaware, Ohio,

**American Chemical Society  
Career Services-Cleveland Section**

Cleveland Section of American Chemical Society has arranged an eight-hour workshop on May 29, 1998 for interested professionals.

Person: Who am I?  
Perspective: How do others see me?  
Place: What is the world of work like?  
Possibilities: What are the options?  
Plan: How do I achieve my goals?

How Can I Become More Valuable to My Company or Institution?  
How Can I Improve the Opportunities in My Professional Career?

**Workshop Description:** This program is for employed as well as unemployed professionals who want to learn proven techniques to take control of their career progress and create effective action plans for reaching full career potential. The model focuses on areas that help understand and harness the changes happening in the organization, industry, profession and work. This workshop is designed to assist professionals, to develop their professional careers to make them more valuable to their employers and to prepare and position them to survive changes in the workplace.

Mary Lou Zingale, the workshop leader, has held various positions at BP America, including Research Chemist, Chemical marketing & Business Development and HR. Employees at AT&T, BASF, Glaxo, TRW, and US EPA have already benefited from this workshop.

**Workshop site:** This workshop will be offered in BP Chemical building in downtown Cleveland.

**Cost:** Total cost per person for this workshop is \$279. The participants will pay ONLY \$90 per person and the balance will be paid by American Chemical Society, Cleveland Section and private Industry Sponsors. Each participant will receive a "WorkPower" manual (included in registration cost).

Please contact Premal Bhatt at (440) 232-9400 for further information

.....CUT.....CUT.....CUT.....

**REGISTRATION FORM  
(MAIL BY MAY 10, 1998)**

**Planning and Implementing Your Professional Career**

Name: Title:

Organization:

Address:

Phone: Fax: e-mail:

Amount Enclosed: \$  
Make check payable to ACS - Cleveland Section and mail it along with registration form to:  
Premal Bhatt, 7407 Creekwood Drive, North Royalton, OH 44133

.....CUT.....CUT.....CUT.....

**LOCAL ACS SECTION AWARDS TOP COLLEGE SENIORS AND JUNIORS**

Each year our local section honors the top senior chemistry major from each of the colleges in our region. Each senior award winner received \$200 plus a free dinner at the awards program which was held on April, 2, 1998 at the Ohio Dominican College. A member of the faculty introduced each school's winner. This year's senior winners included:

Capital University: Thanh M. Ta plans to work after commencement, hopefully followed by graduate or medical school at a later date.

Denison University: Laura Banfield's plans are undecided at this time.

Kenyon College: Karen Elizabeth Downey plans on attending UC Berkeley in Chemistry. Julia Middleton Boon plans to attend either UNC Chapel Hill or Duke University in Chemistry.

Mount Vernon Nazarene College: William R. Snyder will be attending the PhD program in biochemistry at the University of Iowa.

Muskingum College: Dustin Kaye Humienny will be attending Ohio University's College of Osteopathic Medicine. She has a strong interest in family practice or pediatrics.

Ohio Dominican College: Upon completion of her degree, Stephanie Stirn expects to be promoted at her current place of employment, Franklin International, Inc.

The Ohio State University: Anthony Jon Roecker plans on becoming a research scientist for a pharmaceutical company which focuses on the design and development of natural products.

Ohio Wesleyan University: Cynthia Deal plans to attend graduate school to pursue a PhD in chemistry.

Otterbein College: David A. Vastine will be attending medical school.  
Albert R. Wheeler will be attending medical school.

This year an outstanding junior chemistry student from each college was awarded \$100 by our local section:

Capital University: Ms. Casey R. Braddock  
Denison University: Leah Rowland  
Kenyon College: Ndeye Khady Diop  
Mount Vernon Nazarene College: Aaron Gruver  
Muskingum College: Eric Goddard.  
Ohio Dominican College: Justin Kundert  
Ohio State University: Andres Dulcey  
Ohio Wesleyan University: Karl Frederick Thompson Shrom  
Otterbein College: Jared R. Archer

Dr. Patricia Connick,  
Chair, Division of Natural Sciences,  
Ohio Dominican College

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**SUMMER IS A TIME TO CULTIVATE AND NOURISH, SO ....GROW SCIENTISTS!**

**SAVE!!!.. this page of the Chemical Record as a reference for resources on summer activities for children of all ages involving science learning at your leisure.**

Visit COSI - for programs and events, call 614.228.COSI  
or point your internet browser to <http://www.cosi.org>.

Metro Parks and the Columbus Zoo offer many programs for those times when you just have to get out!

Use your local Library resources. Use your local Library resources.

This is a great time to share learning and searching the internet with young people [the likely mentors in this case] and here are some neat resources that will give you lots of hands-on projects:

Science Teachers Pot of Gold: <http://www.ozemail.com.au/~chip/res.htm>

Science and Mathematics Education Resources:  
<http://www-hpcc.astro.washington.edu:80/scied/science.html>

Helping your children learn science:  
<http://www.ed.gov/pubs/parents/Science/>

"Federal Resources for Educational Excellence"  
<http://www.ed.gov/free>

connects teachers, parents, and students to teaching and learning resources in math, science, and other subject areas from NASA, the Department of Energy, the National Science Foundation, and other agencies.

The ACS [yes, we do that too!] has sets of true and tried activities that supplement science programs, namely:  
-Apples, Bubbles, and Crystals Your Science ABCs, for K-2nd graders. published by McGraw-Hill, available at Borders, B&N .....\$12.95

-Sunlight, Skyscrapers, and Soda Pop: The wherever-you-look Science Book" K-2nd., also published by McGraw-Hill, available at Borders and Barnes and Nobles.....\$12.95.

-WonderScience - for K-8 levels 1 year subscription is \$12.00  
-ChemMatters - for High School 1 year subscription is \$ 8.00  
available from ACS Education Products, call (800) 209-0423

TIP: Share these resources with caretakers and summer camp planners.

**MORE IDEAS:**

Do you have a suggestion? Share it! The Columbus Section e-mail works through the summer.... just send a note to [rdardis@cas.org](mailto:rdardis@cas.org).

Maria Rosenthal, Education Chair

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**Summer Meeting Notice**

Columbus Section of the American Chemical Society  
Meeting #745, June 27, 1998, Saturday

**PICNIC WITH THE POPS - CSO and Sandy Duncan**

Dessert Smorgasbord  
The Lawn at Chemical Abstracts Service\*\*  
2540 Olentangy River Road  
Columbus, Ohio 43210  
614-447-3600

6:00 PM Arrive at your convenience and gather at the ACS (roped) area of the lawn. Look for signs. Bring your own picnic, and bring a dessert to share for our DESSERT SMORGASBORD! Plates and forks/spoons for dessert will be provided.

8:15 PM The Columbus Symphony Orchestra will be conducted by George-Albert Shram. Vocalist Sandy Duncan will entertain together with Don Correia and Guy Stroman.

COST: \$11/ticket for ACS members and their families when pre-ordered. (\$13/ticket at Big Bear; \$16/ticket at the gate; \$11/ticket in books of six when purchased through the symphony office.)

Note: CAS employees and retirees should obtain their tickets directly from CAS. If you are an ACS member, but are not a CAS employee, PLEASE order your tickets through ACS! The number of tickets we sell will determine the size of our allotted "roped" area!

Reservations: Please send reservation form with check payable to ACS Columbus Section AND a stamped, self-addressed envelope before May 22 to: Columbus Section, ACS, P.O. Box 82181, Columbus, Ohio 43202. Tickets will be sent to you during the second week of June. Tickets must be acquired in advance. No special price is available for ACS members on the day of the concert.

For further information please call Wendy Reichenbach (614)-447-3600 x3924 or email her at [wreichenb@cas.org](mailto:wreichenb@cas.org) or call Don Songstad (614-447-3600 x2157).

\*\*Directions to CAS: From 315 exit at Lane Avenue (or Ackerman), go east on Lane to Olentangy River Road to the parking area around CAS.

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**ACS Columbus Section PICNIC WITH THE POPS - RESERVATION FORM**

Name \_\_\_\_\_

Address \_\_\_\_\_

Phone number (day/evening) \_\_\_\_\_

Number of tickets \_\_\_\_\_ Dollar Amount enclosed \_\_\_\_\_

Self-addressed stamped envelope \_\_\_\_\_ Check number \_\_\_\_\_

**DEADLINE - MAY 22!**