

# theCHEMICALbulletin

APRIL • 1999

## CHICAGO SECTION AMERICAN CHEMICAL SOCIETY

### THE PERCY L. JULIAN CENTENNIAL CELEBRATION

**FRIDAY, APRIL 23, 1999**

Hyatt at University Village  
Chicago, IL

#### DIRECTIONS TO THE MEETING

Take Eisenhower Expressway (I-290) to Ashland-Paulina Exit, 28B. If coming from west, exit at 28B and turn right at second light. This is Ashland Avenue. Make your right turn onto Ashland from center lane and get into left lane as soon as possible. The Hyatt at University Place is located on the southeast corner of Ashland and Harrison off to your left. Go past the traffic light at Harrison and use the left-turn bay which will lead you right into the Hyatt entrance for valet parking. If coming from the East on Eisenhower, exit at Ashland-Paulina, 28B, and turn left at traffic light onto Ashland. After making turn go just past second light at Harrison and turn into Hyatt as described above. Parking at Hyatt will cost \$5.

#### DIRECTION TO UIC PARKING GARAGE AND COLLEGE OF PHARMACY FOR SYMPOSIUM ATTENDEES

Parking will be available in the UIC Paulina St. garage located on the corner of Paulina & Taylor Sts. This garage may be reached by taking Ashland Avenue to Taylor, taking a right on Taylor, go one block to Paulina, and then turn right into the garage. One may enter the College of Pharmacy from the rear by crossing Paulina Street, proceeding along a sidewalk which will lead to a rear double glass door after exiting the garage. If you enter the pharmacy building street from the front entrance on Wood Street, turn right then left, go through double glass door to stairs leading downstairs to lecture hall. The lecture hall is accessible to handicapped by a nearby elevator. If you are attending the dinner after the symposium, you may leave your car parked in the garage and walk the 3 blocks to the Hyatt. If

you do plan to attend the symposium and park in the UIC garage, you can get a reduced fee voucher if you let Ron Sykstus know by April 21. The vouchers must be purchased ahead of time by the college and will be handed out at the symposium.

#### PUBLIC TRANSPORTATION

UIC is served by bus and rapid transit transportation. The Cermak-Douglas Blue Line which runs to O'Hare Airport, has a Medical Center stop right on Polk Street. The front entrance of the College of Pharmacy is just around the corner on Wood St. There is regular city bus service on Ashland Avenue.

**THE PERCY L. JULIAN  
CENTENNIAL 1:30 - 5:00P.M.**



#### SYMPOSIUM

See page 5 for further details.

**SOCIAL HOUR 5:30-6:30 P.M.**  
Cash Bar Available and Hor d'oeuvres

#### DINNER

**6:30 P.M.**

Dinner reservations are required and should be received in the section office (847/647-8405) by noon on Tuesday, April 20, 1999. Dinner cost is \$35 to Section members who have paid their local section dues, members' families, visiting ACS members and non-mem-

*(continued on page 2)*

#### JOB CLUB

The next meeting of the Chicago Section Job Club will be held on Friday, April 23 at Hyatt at University Village at 5 p.m. The Job Club provides a continuing opportunity for unemployed members of the Section to meet with one another, share their experiences and develop a network that may help in identifying employment opportunities. Bring plenty of resumes and business cards to distribute to your colleagues.

Should you wish to attend the Section meeting following the Job Club, the fee for unemployed members is \$35, and you can continue your networking activities. There is no discount for unemployed members at this meeting because it is The Percy Julian Centennial Celebration Meeting. Please call the Section office for reservations.



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**(Ballots were mailed early in March)**

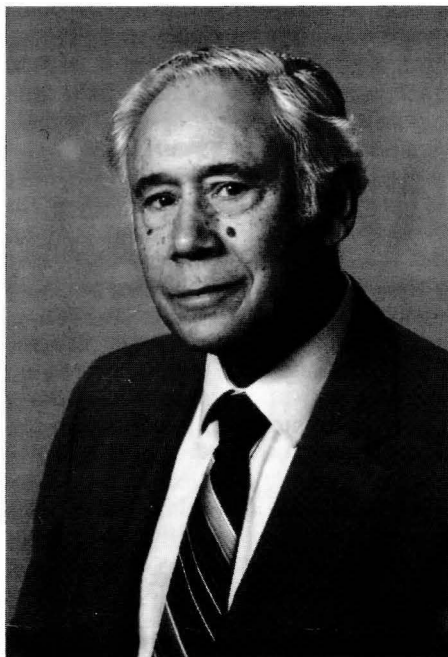
(continued from page 1)

Seating will be available for those who wish to attend the meeting without dinner. PLEASE HONOR YOUR RESERVATIONS. The Section must pay for all dinners ordered. No-shows will be billed.

The menu consists of Chicken Noodle Soup, Caesar Salad, Chicken and Salmon or Roast Prime Rib of Beef, Fresh Seasonal Vegetables, Chef's Selection of Rice or Potato, Assorted Rolls and Butter, Southern Style Pecan Pie and beverage.

**GENERAL MEETING 8:00 P.M.**

Distinguished Service Award to:  
CHARLES CANNON  
&  
JAY S. CURTICE  
(see page 9)



**THE TOPIC:**

Lloyd M. Cooke, Educational Consultant, President, LMC Associate, "A Rare Man: Chemist, Entrepreneur: and Career Catalyst"

I was blessed early in my career in Chicago to be invited to meet and confer as mentee to a remarkable man, Dr. Percy Julian. I came to know Dr. Julian's research, his business acumen and ideas for investment, invention and humanism, while literally sitting at the mentors feet. The breadth of Dr. Julian's interests and his unique ability to find the nut, the potential, the challenge of almost any issue which entered his mind was astounding. I first became entranced, then introspective, finally an emulator. Not necessarily inventor, or humanist but rather to think about self, surrounding and glom onto a new, fun-

damental concept in any field or discipline. While continuing happily as bench chemist then group leader and ultimately Assistant Research Director in industry, I added an entirely different career, namely, ACS BUSYBODY.

Within a year of moving from my postdoc position at McGill University to Corn Products Refining, I was cajoled into filling a critical position for the forthcoming Regional Meeting of the American Chemical Society. That was the start of a parallel career path for twenty-four years serving at all levels through the Board of Directors to candidate for President ACS. But that was only the start for an entirely new set of positions and honors, all stemming from Dr. Julian's training, encouragement and subsequent focus on Analysis and Synthesis as the way to go.

What Dr. Julian's teachings demonstrated were:

Analysis and synthesis: the work and the thinking of chemists  
Analysis and synthesis: pervasive processes for solving on almost any problem.

**THE SPEAKER:**

I am sure we will all be pleased to welcome back to our Section Dr. Lloyd M. Cooke, who was a member of the Chicago Section until he left the area when he was transferred by Union Carbide to its corporate headquarters as Corporate Director of Urban Affairs. Of course, to say that he was a member is a gross understatement. He served the Section as House Chair, Secretary, and ultimately, Section Chair in 1956. He served as a Section Councilor from 1947-67 and was vice chair of the council policy committee in 1967. Eventually, he became Region V Director and was a candidate for ACS president-elect in 1972. He is a member of the Chemists Clubs of Chicago and New York.

Lloyd has had several outstanding careers. He obtained his Ph.D. from McGill University in 1941 in polymer chemistry, worked for Corn Products Refining as a research chemist, and later joined Visking Corporation as manager of planning for film and packaging. Visking was acquired by Union Carbide, and he was transferred to New York where he became corporate director of Urban Affairs. From 1978 to 1981 he was loaned to the Economic Development Council of New York as Vice Chair of the Council. When he retired from Union Carbide, he became the founding president of the National Action Council for Minorities in Engineering, a national organization devoted to increasing the number of minorities entering the engi-

neering field. He has given expert testimony before various governmental bodies and still consults for several large city school systems.

He was one of the original members of the Joint Board-Council Committee on Chemistry and Public Affairs and was appointed to lead the environmental study which led to the publication of the landmark ACS monograph "Cleaning Our Environment: The Chemical Basis for Action." The book was translated into 32 languages and is still used in environmental science classes. For this achievement, he was awarded the William Proctor Prize by Sigma XI. This book had a more profound effect on environmental research, legislation and education than any single work published in the last thirty years. As a member of this committee, he was one of the founders of Project SEED. He was appointed to the National Science Board in 1970, where he served the statutory limit, and also served on the New York State Science and Technology Foundation. In 1987, he formed his own consulting firm, LCM Associates. Through his firm, he has served as a consultant to several school districts, colleges and technical societies. Since 1990, Dr. Cooke has been active in the implementation of technical service activities for the EHR Directorate of the National Science Foundation.

Dr. Cooke's personal interests include youth motivation and career counseling. He has enjoyed hiking, skiing, glider piloting and scuba diving. His Wife, Vera, a former biochemist, recently retired as a systems analyst in Con ED's engineering dept. Daughter, Barbara, Ph.D. in Agricultural Engineering and PE is serving as research engineer at the Univ. of Idaho. Son, Bill, MS ME, is engaged in manufacturing design and quality at Ford's Electronics Division. I know of no other person who is more suited or more able to honor Dr. Julian than our friend and colleague, Lloyd Cooke.

JIM SHOFFNER

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## "CHEM SHORTS" For Kids

This column is presented by the Elementary Education Committee. They hope that it will reach young children and help increase science literacy. Please cut it out and pass it on to your children, grandchildren, or elementary teachers. It is hoped that teachers will try to incorporate some of these projects in this column into their lesson plans.

### "Cabbage Chemistry - pH Tests"

Kids, let's make your own acid/base pH indicator by doing a little cooking - just by boiling red cabbage. The juice is used to test the pH of different liquids. Tear up 1/2 head of red cabbage (or use a grater with supervision), place the pieces in a pot and add just enough water to cover them. Boil (with supervision) for 20-30 min until the liquid turns a dark purple color. Let cool and pour through a strainer into a large jar. You can even save the cabbage for later - add a little vinegar and it's a relish for hotdogs, etc. The collected liquid should be blue/dark purple. Make some test acid and base solutions in cups: white vinegar, clear soda, diluted lemon juice (acids) and some detergent in water or some baking soda in water (bases), and pure water (neutral). Add a few drops of the cabbage juice to each solution and note any color changes.

The juice should turn pink in acidic solutions, green in basic solutions, and not change in neutral solutions. Try some other solutions of interest. You can also try making your own pH paper: soak a coffee filter in the juice and let it dry, then cut into test strips. Or pre-cut the filter into any interesting shape. Dip your papers into the test solutions and record what happens. What might happen if you dip a paper first into a base and then into the vinegar? You can even try a little creative art by using a cotton swab dipped in vinegar to draw on your pH paper. Can you then make your art disappear? Try all of these things and have fun!

Further comment: Red cabbage works so well because of the highly colored anthocyanin dye it contains. Other plants that contain these molecules are beets, cranberries, and blueberries...

References: [www.madsci.org](http://www.madsci.org), the Mad Scientist Network based at Washington University Medical School in St. Louis, and *WonderScience*, February 1988.

"ChemShorts" are on the internet at:  
<http://membership.acs.org/C/Chicago/C hmShort/kidindex.html>.

KATHLEEN CARRADO  
Elementary Education Committee.

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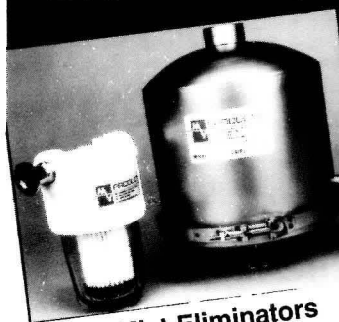
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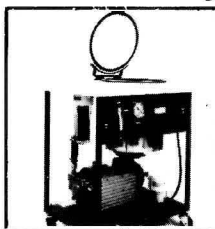
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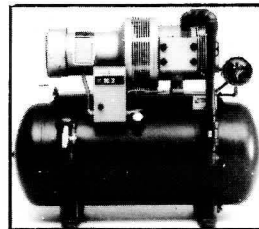
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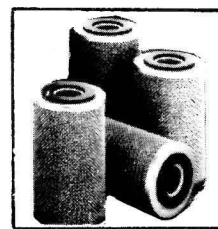
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# A SYMPOSIUM COMMEMORATING THE 100th ANNIVERSARY OF THE BIRTH OF DR. PERCY L. JULIAN

**FRIDAY, APRIL 23, 1999**

UNIVERSITY OF ILLINOIS COLLEGE OF PHARMACY.  
833 S. WOOD.\*

## **PROGRAM:**

- 1:30           Introductory Remarks
- 1:40           Dr. Yvonne C. Martin, Abbott Labs; "Can We Really Use the Computer to Predict Biological Activity of Compounds?"
- 2:10           Dr. Tom Sowin, Abbott Labs; "Combinatorial Chemistry in Drug Research."
- 2:50           Dr. Michael Johnson, UIC College of Pharmacy; "Advances in the Treatment of Sickle Cell Disease."
- 3:20           Dr. Arnold Hirsch, NSC Technologies; "The Chemistry of Percy L. Julian: Excellence Pursued."
- 4:00           Panel Discussion: "Retrospective and Remembrance of Dr. Julian as Scientist, Humanist, Entrepreneur, Inventor and Civic leader"  
                  Panel: Mr. Vernon Jarrett, Journalist (Chicago Tribune and Sun Times), Mr. Peter Walton (Consultant), and Dr. James Letton (Retired Research Scientist and Victor Mills Fellow, Procter & Gamble). Moderator: Dr. James Shoffner, (Science Institute, Columbia College; UOP, Retired).

## **RECEPTION:**

5:30-6:30     Hyatt at University Village, 623 S. Ashland Avenue

## **DINNER:**

6:30-8:00     Distinguished Service Awards: 8:00-8:30

## **ANNIVERSARY ADDRESS:**

8:30           Dr. Lloyd Cooke, Educational Consultant, President, LMC Associates; "A RARE MAN: CHEMIST, ENTREPRENEUR: AND CAREER CATALYST."

\*Cosponsored by the Public Affairs Committee and Minority Affairs Committees of the Chicago Section.

## THE SYMPOSIUM

We have planned the 100th Anniversary Symposium with the goal of honoring Dr. Julian while at the same time presenting information about some of the frontier methodology for drug discovery. While computers have been used to carry out SAR studies for drug research for a number of years, they remain powerful and indispensable tools. Dr. Yvonne Martin, one of the leaders in this field for a number of years, will bring us an update on some of her latest findings. Although the field of combinatorial chemistry was pioneered by the pharmaceutical industry, it has since become a powerful method for screening and discovery in a number of other disciplines such as catalyst research and material science research. Thus, this talk by Dr. Tom Sowin should have great interest for many chemists who have interests outside the pharmaceutical field. Dr. Michael Johnson has carried out research in the development of antisickling agents for the treatment of sickle cell disease. Sickle cell was the first of the "molecular diseases," discovered by Linus Pauling during his research on protein structure and function. Dr. Johnson will give highlights of his most recent research, for which he recently

received a significant grant from NIH.

Dr. Arnold Hirsch, who received his Ph.D. from the department of medicinal chemistry of UIC, worked with Dr. Julian for ten years after receiving his doctorate. He will talk about the chemistry used and developed by Dr. Julian in carrying out his work over the course of a long and distinguished career. This will be followed by a panel composed of Mr. Peter Walton, consultant, Mr. Vernon Jarrett, a long-time journalist with the Chicago Sun-Times and Chicago Tribune, and presently an adjunct professor of public policy at UIC, Dr. Jim Letton, also a UIC department of medicinal chemistry alumnus, a retired Victor Mills Fellow from Proctor and Gamble, and a NOBCCHE Percy L. Julian Fellow. The Victor Mills Distinguished Scientist Society is the highest scientific and engineering honor one can achieve at P&G. The panel will be moderated by Dr. James Shoffner, adjunct professor of science, Science Institute, Columbia College; Research Specialist, UOP, retired; also a UIC department of medicinal chemistry alumnus.

It should be noted that having the symposium at the College of Pharmacy is not a mere coincidence. Dr. Julian served as an adjunct professor in the department of medicinal chemistry dur-

ing the sixties. It was during this period that he advised and directed, along with professors Bauer and Bell, Dick Hewitson's research for his doctoral thesis, which was granted in 1968. Dr. Julian was very proud of his collaboration with faculty and students at UIC and spoke often of his work with Hewitson, who was his only doctoral student.


Although one can attend the symposium without fee or registration, it would be useful if you would indicate your intention to attend by calling Ron Syktus, (847) 647-8405 at the section office. This will assist us with our planning. Please note that one must call if you wish to take advantage of the reduced parking fee in the UIC garage.

JIM SHOFFNER AND BARB MORIARTY,  
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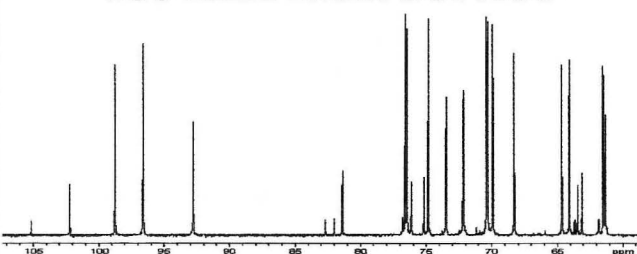
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## DR. PERCY L. JULIAN

APRIL 11, 1899 - APRIL 19, 1975.

Beginning about twenty years ago, the section instituted a Distinguished Service Award and since that time it has been presented at the April meeting. For our meeting this year, we have added a very special event; commemorating the 100th Anniversary of the Birth of Dr. Percy Julian. At this time, Centennial Observances are being planned for Anaheim at the ACS National Meeting, by the Indiana Local Section, by schools and institutions in the Village of Oak Park and at the National Institutes of Health. DePauw University, Dr. Julian's undergraduate alma mater, is planning a two day celebration on April 22 and 23, which will involve the dedication of Dr. Julian's synthesis of physostigmine in DePauw's Minshall Laboratory, as a National Historic Chemical Landmark.

Dr. Julian was a member of the Chicago Section from the time he moved to Chicago to head the Glidden Central Research Labs in 1936 until he died in 1975. Although he was never a section officer, he was certainly a loyal member. His achievements and contributions brought great acclaim and credit to the Chicago area and the nation as a whole. There is not enough space in this edition to do justice to him for his great achievements, both in the laboratory as a scientist, in his civic support for his community, and as a successful entrepreneur.

Let me briefly give some of the highlights of Dr. Julian's life. He was born on April 11, 1899 in Montgomery, Ala. In 1916 he came to Greencastle, Indiana to enroll at DePauw University. He had to take remedial coursework for the first year to make up for the poor schooling he received in Alabama. Nevertheless, he graduated on time in 1920 with Phi Beta Kappa honors. After a year as an instructor at Fisk University, he entered Harvard where he received his M.A. in 1923. After teaching at West Virginia State University, and heading the chemistry department at Howard University, he received a fellowship for study in Europe. He received his Ph.D. from the University of Vienna after study with Dr. Ernest Späth.

After failing to receive a job offer from either academe or industry, he returned to DePauw as a research associate where over a period of three years working with undergraduates, he, in collaboration with his colleague J. PiKl who returned with him from Europe, published a dozen research papers in J.A.C.S.; an extraordinary

output from an undergraduate institution under any circumstances. Among these papers was the classic 1935 paper, "The Complete Synthesis of Physostigmine( eserine)," J.A.C.S., 57, 755 (1935). This was the paper in which he trumped Sir Robert Robinson, (Chemistry Nobel Laureate, 1947). Robinson and his group had published a series of ten papers on the structure of physostigmine, which is used as a drug for the treatment of glaucoma. Julian and his group at DePauw published conclusive proof that their synthetic material had the same structure as the natural product. His success at DePauw led to a job offer from the Glidden Company, where he served as Director of Research from 1936 to 1954.

It was right around the time that he left DePauw for Glidden's that he married Miss Anna Johnson. The new Mrs. Julian was a scholar in her own right, receiving her Ph.D. in Sociology from the University of Pennsylvania in 1937. They had two children, Percy, Jr., an attorney in Madison, Wisc, and Faith who still lives in the family home in Oak Park.

After a very successful career at Glidden, he left to form his own firm, Julian Laboratories, which ultimately became a part of Smith, Kline and French (now SmithKline Beecham). In 1964, he organized Julian Associates, and the Julian Research Institute, which he headed until his death. During this time, he also served as a consultant to a number of leading pharmaceutical companies.

One of his more notable achievements was to be among the founding trustees of Roosevelt University. Roosevelt was founded to serve as an open and hospitable institution for all who chose to enroll. Although he served on the boards of many schools and institutions during his lifetime, he was most proud of his relationship with Roosevelt.

Dr. Julian was the recipient of many awards too numerous to mention all of them here. In 1947, he received the NAACP Spingarn Medal; 1973, he was elected to the National Academy of Sciences, and Proctor Medal of Sigma Xi; in 1993, the Black Heritage Stamp was issued in his honor; in 1998, named as one of C&EN's "Top 75 Distinguished Contributors to the Chemical Enterprise" during the 75 years of C&EN's existence. In addition, many schools and laboratories have been named after him. He was elected to the National Inventors Hall of Fame (Akron, Ohio) in 1990. He was cited for the "Preparation of Cortisone," U.S. 2,752,339.

Dr. Julian died on April 19, 1975 in

Waukegan, Illinois. He has been written about many times over the past several years; most recently in a C&EN cover story, p.9 February 1, 1993. There was also a wonderful memorial tribute in the February, 1976 issue of the "Bulletin," written by Virginia Colton. There is at present no full scale biography of him, but one of the best accounts of his life and work is by his friend, Dr. Bernhard Witkop in "Biographic Memoirs," National Academy of Sciences, pp 223-266, National Academy Press, (1980). There are several websites that have information about him on the internet.

JIM SHOFFNER

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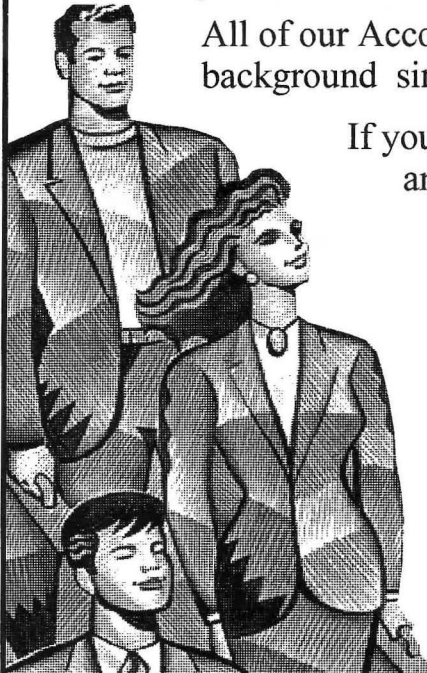
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## 1999 DISTINGUISHED SERVICE AWARDS

### CHARLES CANNON

Educator, musician, chemist, coach are only a few of the adjectives that describe Charles Cannon and his contributions to the people he has touched.

Charles was born in Sylacauga, Alabama at the end of the second world war. His family raised him and his four siblings in the metropolis of Vincent, AL with a booming population of 1,250. Not to be deterred by the seeming lack of amenities in such an environment Charles took to the stage at the age of ten, and won the first place trophy in an oratorical competition. Having tasted the joy of appearing before an audience, Charles continued to enjoy that position. He is known to have been a substitute teacher during his formative years of fourth through sixth grades. Such experience prepared him well for his future vocation.

Graduating high school as valedictorian, Charles went on to Alabama A&M University where he received his B.S. in Chemistry, then to the University of Wisconsin for his doctorate. At that time Charles became a member of the Chicago Section by taking a position with the Amoco Corporation in 1974 where he spent eleven years ferreting out the mysteries of industrial chemistry. Charles career took him back in academia. He sojourned at such renowned institutions as Columbia College Chicago, Elmhurst College, and West Aurora High School until finally settling at the Illinois Mathematics and Science Academy. He returned to Columbia College Chicago in 1992 as Chairperson of the Science and Mathematics Department and remains there to this day.

Charles has received numerous awards, and is highly respected by his colleagues. His service to the Chicago Section of the American Chemical Society includes three years in the Chair succession; terms as Vice-chair, Treasurer, Secretary, Director, and Alternate Councilor, and Chairman of the Hospitality, House, Elementary Education and College Education committees. In addition he has served on the Long Range Planning Committee and Distinguished Service Award Jury. Other professional organizations to which he belongs include Beta Kappa Chi Scientific Honor Society and the Alpha Kappa Mu Honor Society. He has participated in various programs sponsored by the National Science Foundation, the Chemical Industries Council, the

National Association of Biology Teachers, the Illinois Science Teachers Association, the Midwest College Learning Center Association, and the Illinois Association of Chemistry Teachers to improve his skills and the general state of science education.

In addition to his professional activities Charles has been active in his church, including the choir where he still plays to an audience, and is very active in helping less fortunate people.

And with all that, Charles rarely declines an invitation to help wherever he can.

HERBERT S. GOLINKIN

### JAY S. CURTICE

Jay was born on Jan. 19, 1928 in Dallas, Texas, received his B.S. degree from Southern Methodist University in Dallas and his Ph.D. from Iowa State University in 1954. He did his Graduate research under two of the 20th centuries great organic chemists, Henry Gilman and George Hammond. He was among the first to discover organosilicon free radicals.


Jay arrived in Chicago in 1953 and was a research chemist at Sinclair Research Laboratories in Harvey, Illinois. He became immediately active in the local ACS Section and he became the advisor to the YMCA "Inventors Club". He was an early member of the Chicago Gas Chromatography Discussion Group. One of his major interests was always in encouraging promising young people to consider a career in Chemistry or other scientific field. In 1962 he moved from Sinclair to Roosevelt University where he served until his retirement as a faculty member and as chairperson of the Roosevelt University Chemistry Department. In addition to being a fine teacher he provided outstanding intellectual leadership. The local section also a beneficiary of his outstanding leadership.

Jay served on many local section committees beginning in 1953 until he retired and left Chicago in 1987. He was one of the founders of the section Committee on Safety and served many years on the committee and for several years was it's chairperson. He served on the College Education Committee, Continuing Education Committee and Program Committee. He was one of the founders of the Chicago School Board Liaison Committee and served on it for several years. Jay also served on the sections Nominating Committee, Long Range Planning Committee and others. In addition to these appointed positions Jay was elected as Vice Chair in 1979,

Chair Elect in 1980-81, Chair 1981-1982 and he also served as Director.

Jay provided the kind of dedication and leadership that makes it possible for the Chicago Section to continue to be one of the nations best. It was a great loss to all of us when Jay died in 1989. Those of us who new him well will never forget him as a colleague and friend.

SEYMOUR H. PATINKIN



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## AUTOMATIC EXTERNAL DEFIBRILLATORS

Approximately 250,000 people in the United States are stricken each year with sudden cardiac arrest (SCA). Often, sudden cardiac arrest is triggered by ventricular fibrillation (VF) in which the heart beat deteriorates into chaotic flutter. This chaotic and ineffective quivering of the heart muscle makes it unable to continue to pump blood throughout the body. As a result, there is a risk of brain damage and death. In fact it's the nation's leading killer.

Doctors don't understand why this happens but they do know that shocking the fibrillating heart is the only effective treatment for regaining a regular heart beat. Even though worksite hazards may increase the risk of SCA, it is an equal opportunity killer that can strike anyone, anywhere, anytime-usually without warning.

Several factors in the workplace can increase the risk of SCA or limit the timely delivery of lifesaving therapy. Time is critical! Many cardiac arrests become fatal four to seven minutes after ventricular fibrillation begins. The first two minutes of SCA are critical and every minute that passes before returning the heart to normal rhythm decreases the chance of survival by ten percent. After just four minutes without defibrillation, only about 60 percent of victims survive. After ten minutes, very few survive. Thus, early defibrillation is the single most crucial factor and is the key to full recovery. Defibrillation is a process in which a brief electrical shock overpowers the irregular ventricular rhythm and allows the heart to resume its natural contractions.

Most companies, including those with emergency response teams, rely on outside emergency medical service (EMS) to respond to SCA with a defibrillator. Companies in urban settings may seem close enough to medical care but the speed of paramedic response from call to curbside varies widely. Traffic, complex worksites, elevators, escalators, crowds of people, tight security control systems, spread out facilities, and relatively remote locations can delay EMS from reaching a victim in time. In congested cities, emergency medical technicians (EMTs) equipped with defibrillators usually arrive too late. Nationwide, the cardiac arrest survival rate averages less than ten percent.

A safe and effective technology exists that could improve these survival rates dramatically. It is the automatic external defibrillator (AED). Recent advances in AED technology now

makes it practical to equip company employees with this life saving tool. Working in partnership with EMS, personnel trained in AED use can help keep a victim alive for EMS personnel to treat when they arrive.

Many types of industry can benefit from having AEDs on hand. For example, from those performing heavy industrial work to those performing more sedentary operations. Companies across a broad range of industries are joining the fight against SCA by adding AED to their emergency response capabilities. AED gives your emergency responders the power to save a life.

Authorized responders who know nothing more than cardio-pulmonary resuscitation (CPR) can be trained to use an automatic external defibrillator in those critical moments before emergency medical services can respond. A trained medical professional isn't needed to read an electrocardiogram and decide whether to apply the shock, as is the case with the units found in hospital emergency rooms. The AED guides the user through the defibrillation process with verbal instructions and determines whether a shock is needed. Once it is determined that the victim is not breathing or has no pulse, the electrodes are placed on his/her chest. The machine analyzes the heart rhythm and determines whether a shock should be given or not.

The AED is a small compute, battery-operated device, which can be as small as a book and weigh as little as four pounds. They are nearly fool-proof to operate and carry a diminishing risk of human error. Automated voice-prompts and computerized analysis of the victim's heart condition direct the decision to shock. They require some training (and some knowledge of CPR) for ideal use. Many include design features that walk laymen through a rescue. Recorded voice-prompts give instructions such as "apply pads, do not touch patient, and deliver shock now." More importantly, the machines announce when analysis shows a person should not be administered a shock. A shock to a nonfibrillating heart could be fatal!

Emergency medical-service organizations support lay use of defibrillators at the work site and at other public places. Saving lives is a shared responsibility. Emergency response programs should complement, not replace the existing 911 structure. Working in partnership with EMS, companies can help keep a victim alive for EMS personnel to treat when they arrive. Trained responders are in a unique position to minimize time-to-defibrillation. AEDs can be strategically placed, similar to

the convenience of fire extinguishers or other first aid equipment, so that responders have immediate access to this life-saving equipment. Makers of AEDs are persuading officials of schools, airlines, golf courses, offices, laboratories, and those with responsibility for all public safety vehicles, and where people gather, to keep them handy. Already, stadiums such as the Meadowlands in New Jersey use the automatic defibrillator as part of their first response. Most NFL and many college teams will have them at every game and practice.

The AED requires minimal training, even for responders who know nothing more than CPR. In fact, it is easier to learn how to use an AED than to learn CPR. Safety officers, on-site physicians and nurses, security guards, office and industrial workers -anyone who is in a position to rapidly respond to a medical emergency can be selected and trained to operate an AED.

Businesses have a legal obligation to prepare for medical emergencies, in accordance with state law and federal Occupational Safety and Health Administration requirements. Until recently, courts have required nothing more than summoning an ambulance in a timely manner. Clinically, that response is often inadequate. Recent technology and recent court verdicts point to a move toward higher standards. All organizations must evaluate the relative risks and benefits when stocking up on medical equipment in preparation for a medical emergency.

The AED's creation leaves organizations with the weighty task of deciding to keep one or more of these units on hand. What's stopping them isn't the cost (about \$3,000-\$4,000 per unit) or the training (less than four hours according to the American Heart Association). It's the controversy that's involved with any decision as to whether or not AEDs should be added to an organization's first-aid armamentarium.

Laws on emergency medical care, including defibrillation, vary from state to state. Only 18 states protect lay people using defibrillators in a rescue, and another five states have legislation pending. According to the American Heart Association, to date, no known judgements have been rendered against the operator of an AED for negligent or improper use of AEDs.

The federal Cardiac Arrest Survival Act, which calls for a model states could adopt to allow widespread use of AEDs and other lifesaving devices-and provide immunity for those who give

*(continued on page 11)*

(continued from page 10)

emergency care-is pending in Congress. Supporters include the American Heart Association, the American Red Cross, cardiologists and emergency and critical care nurses' associations. Other organizations, most notably the National Association of State Emergency Services Directors and FDA contend that the push for AEDs should be delayed until the devices have been proven safe and effective for public use.

In a recent article on AEDs and legal liability published in *Air & Space Lawyer* (a publication of the American Bar Association), liability claims associated with the negligent operation of AEDs are mitigated by the difficulty in establishing that the operator proximately caused harm to the victim. The AED operator is attempting to resuscitate an individual who, absent the AED, will likely remain dead.

To date, there have been no lawsuits involving the use of a defibrillator in a business setting and most firms carry liability insurance as protection should such a lawsuit arise. However, a lawsuit was filed against United Airlines by the widow of a passenger who died from sudden cardiac arrest. The lawsuit

alleges that the on-board medical equipment carried by the airline was not adequate to treat her husband. A defibrillator was not on board the plane.

In June, 1996, a Florida jury found Busch Gardens in Tampa negligent for not properly training its employees to provide emergency care-and failing to have essential medical equipment, including a defibrillator on the premises. A 13-year-old girl suffered a cardiac arrest while riding one of the park's roller coasters and died. The plaintiff was awarded \$500,000 in damages for the death of her teenage daughter. In another case, a federal judge found Lufthansa Airlines negligent for failing to provide timely treatment in a passenger who suffered a cardiac emergency. The damage awarded in that case: \$2.7 million.

While these verdicts will certainly be appealed, the availability of AEDs and their demonstrated ability to save lives may persuade more judges and juries to reach similar conclusions. Indeed, American Airlines announced that all aircraft would be equipped with AEDs and the Federal Aviation Administration is considering whether to require every airline to follow suit.

It's difficult to misuse AEDs, since they're designed to distinguish between

heart rhythms that require electric shock from those that do not.

In summary, the lifesaving benefits of AEDs, the relatively manageable cost of implementation (\$3,000-\$4,000) and the complete lack of other treatment alternatives can present a compelling argument that certain corporations and other organizations might have a duty of care toward their employees, customers, patrons, etc. who may suffer cardiac arrest. Failure to purchase and use AEDs could conceivably subject these corporations to an increasing liability risk in this rapidly evolving legal arena.

Manufacturers of AEDs include: Hewlett-Packard Co. (Heartstream), Physio-Control Corp., SurViva-Link Corp. and Laerdal Medical Corp.

STEVE SICHAK  
Chair, Chemical Health and Safety Committee

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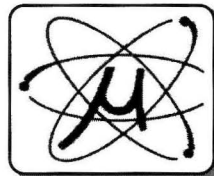
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## ACS REGIONAL MEETINGS

The four ACS regional meetings scheduled for Fall, 1999, have issued their calls for papers. Persons interested in submitting papers in any field of chemistry to any or all of the meeting listed below are urged to do so. ACS regional meetings offer ACS members and others an excellent venue for sharing their research. Industrialists, academics, graduate, and undergraduate students are all welcome to participate in regional meeting programming. All abstracts (original plus two copies) should be submitted on the standard ACS abstract form, which may be accessed from <http://www.acs.org/meetings/abstract/abinfo.html>.

The 35<sup>th</sup> Western Regional Meeting will be held at the Ontario Convention Center in Ontario, CA, October 6 - 8. The theme of the meeting is "A Tribute to Past Accomplishments and A Look at Future Technologies for the New Millennium". The meeting will feature the 50th anniversary celebration of the San Geronio Section, which is hosting the meeting, a tour of the Beckman Heritage Foundation, and a tour of the Sunkist Research Center, in addition to other special events and symposium. Selected topics for paper or poster presentation include: Agricultural/Food Chemistry, Analytical, Applied Spectroscopy, Bioorganic/Bioinorganic, Biopolymers, Biotechnology, Ceramics, Clinical Chemistry, Conductive Polymers, Controlled Drug Release, Electrochemistry, Energetic Materials, Environmental Analysis, Flavor/Fragrance, General Chemistry, Inorganic, Langmuir-Blodgett-Kuhn Films, Microbiology, Minority Affairs, Molecular Biology, Natural Products, Nonlinear Optical Polymers, Organic, Organometallics, Pharmacology, Physical, Polymers, Self-Assembly of Thin Films, Sensory/Olfactory Perception, Therapeutics, Thermoplastics, Thermosets, and Women in Chemistry. Abstracts are due May 15 and should be submitted to either Peter Zarras, NAWCWD, Materials Synthesis Section, Code 4B2200D, China Lake, CA 93555-6100, (760) 939-1396 (P); (760-939-1617 (F); [peter\\_zarras@imdgw.chinalake.navy.mil](mailto:peter_zarras@imdgw.chinalake.navy.mil) or Eric D. Erickson, NAWCWD, Materials Characterization Section, Code 4B2300D, China Lake, CA 93555-6100, (760) 939-1638 (P); (760) 939-1617 (F); [edc\\_edckson@imdgw.chinalake.navy.mil](mailto:edc_edckson@imdgw.chinalake.navy.mil).

The 51<sup>st</sup> Southeast Regional Meeting, hosted by the East Tennessee Section, will be held at the Hyatt Regency, Knoxville, October 17 - 20. This return of SERMACS to East Tennessee cele-

brates the 50th Anniversary of the first SERMACS, which occurred here in 1949. SERMACS-99 will feature exciting science from throughout the region, including 23 topical symposia, general sessions in key divisions, and an undergraduate Meeting in Miniature. Although this is nominally a "regional" meeting, many of the symposia will provide national and international forum for establishing and advancing the state-of-the-art in critical research areas. Along these lines, a plenary "Lind Lecture" will be provided by National Academy of Sciences member Richard Zare (Stanford) on "What Can Chemists Tell Us About the Origin of Life?" An extensive vendor exposition, attractive family programs, and a variety of educational and training workshops are planned to complement the technical program. Abstracts are due May 15. Interested parties should contact Chuck Feigerle; University of Tennessee, Department of Chemistry, Knoxville, TN 37996; (423) 974-2129 (P); [figerle@utk.edu](mailto:figerle@utk.edu) or Kelsey Cook, University of Tennessee, Department of Chemistry, Knoxville 37996; (423) 974-8019 (P); [kcook@utk.edu](mailto:kcook@utk.edu) or visit the SERMACS 99 web site, <http://www.ser-macs99.org> for further information.

The Joint 55<sup>th</sup> Southwest/15th Rocky Mountain Regional Meeting, hosted by the Rio Grande Valley Section, will be held at the Paso del Node Hotel in El Paso, TX, October 21-23. The SWARM 1999 meeting will feature a variety of interdisciplinary symposia including Materials and Art, Interfacial Phenomena, High Temperature Superconductors, Nuclear Waste- Treatment, Storage and Disposal, and NMR in Biology. Additional symposia are planned on New Reactions and Processes in Organic Synthesis, Heterocyclic Chemistry, Main Group Organometallic Compounds, Environmental Chemistry, Chemical Education, and Chemistry and Community Colleges. Abstracts are due by May 17 and should be directed to R. H. Hoffman, Department of Chemistry & Biochemistry, New Mexico State University, Las Cruces, NM 88003; (505) 646-2505 (P); (505) 646-7691; [rhoffman@NMSU.Edu](mailto:rhoffman@NMSU.Edu).

The 34<sup>th</sup> Midwest Regional Meeting, hosted by the Mark Twain Section, will be held at the Oakley-Lindsay Convention Center in Quincy, IL, October 27-29. The meeting will feature eight symposia, including Chemical Education and the Web, Analytical Chemistry in the 21<sup>st</sup> Century, and Green Chemistry. A variety of special events and programs, including a Chemical Demonstration, are also being planned. General technical papers, for either oral or

poster presentations, in all areas of chemistry, are solicited and encouraged. Abstracts are due by June 15 and should be directed to either H. David Wohlers, Truman State University Science Hall, 100 East Normal, Kirksville, MO 63501; (660) 785-4625 (P); (660) 785-4045 (F); [wohlers@truman.edu](mailto:wohlers@truman.edu) or Dana Delaware, Truman State University, Science Hall, 100 East Normal, Kirksville, MO 63501; (660) 785-4622 (P); (660) 7854045 (F); [ddelaware@truman.edu](mailto:ddelaware@truman.edu).

We look forward to your participation in a strong and successful regional meeting season. As always, research advisors are urged to encourage their graduate students and research associates to participate. For further information about regional meeting, please call the ACS Office of Regional Meetings at 1-800-227-5558, ext. 4608.

## YOUNGER CHEMISTS

In celebration of the YCC's 25th Anniversary, special programming and events designed to highlight the achievements of younger chemists will be sponsored at ACS events throughout 1999. In addition to commemorative 25th Anniversary pins, YCC ribbons will be placed on posters contributed by younger chemists at the SciMix events in New Orleans. YCC is striving to co-sponsor symposia with all of the ACS technical divisions including a special Biotechnology Symposia at the New Orleans meeting. Also in New Orleans, there will be a special reception entitled "Looking Back to the Future." This reception will include a short program where speakers will give perspectives on the past, present and future of the YCC. Visit the YCC web site for more information on these special 25th Anniversary events as the meetings draw nearer, <http://www.chem.hawaii.edu/ycc>. Help make the YCC's 25th Anniversary celebration a big success by planning to attend these special events!

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## WEIRD SCIENCE

The University of Illinois at Chicago plans an ever NEWER and more IMPROVED workshop - "A THIRD WEEK WITH WEIRD SCIENCE & WADE" July 26-30, 1999. This Institute is for high school/junior high teachers. It combines demos, labs, computers, make-and-takes and lectures in chemistry. This course is Chemistry 572, Teaching Methods in Chemistry, with 3 semester-hours of graduate credit in chemistry. It will have different content/material from last year and may be repeated for additional credit - this years topics- ACID/BASE chemistry and REDOX.

WEIRD SCIENCE is a series of short, easy and sometimes "weird" demonstrations, labs and ideas on chemical and physical phenomena, designed for teachers of the chemistry/physical science, primarily at middle school and high school levels. The program presents novel demonstrations, labs, make & takes, and sharing guaranteed to hook kids and adults into thinking about science concepts. As Hubert Alyea said "Surprise, humor and truth are the servants of a good lecture." WEIRD SCIENCE entertains while it educates-- it is infotainment. It is our job to awaken our student's desire to learn-- to keep the students mentally coming back. You cannot communicate with people who are not mentally present. If you want "presence" you have to capture attention. WEIRD SCIENCE provides tools to capture attention. To keep us at equilibrium we have Dr. Wade Freeman author of the much acclaimed college text *Chemistry: Science of Change*.

For details, contact Wade Freeman, Univ. Of Illinois at Chicago, Chem Dept., 845 W. Taylor Street, Chicago, IL 60607, phone (312) 996-3161; or e-mail: Wfreeman@uic.edu

## 88TH GIBBS MEDAL

The Gibbs Medal presentation award banquet which will take place on Friday, May 21 is, as always, the highlight of the Chicago ACS Section's annual activities. Many consider the Gibbs Medal second in Importance and prestige only to the Nobel Prize. The selection committee scours the world for an outstanding chemist to receive this medal. It is awarded in recognition of significant achievements and contributions to the science of chemistry. The 1999 recipient is Dr. Lawrence F. Dahl of the University of Wisconsin. Dr. Dahl is an inorganic chemist with a career of extensive research in organometallic chemistry and in high nuclearity metal clusters.

This year the Gibbs dinner will be at Monastero's Ristorante, 3945 Devon

Avenue, Chicago. As many of you already know, the food at Monastero's is superb. For this occasion, items seldom seen on their menu will be served. Among these are Fettunta, Steak Palermitana, Salmon Genovese, and Eggplant Parmigiana. The dinners will receive red and white wines with their dinner and delicious hot hors d'oeuvres during the cocktail hour reception prior to the dinner. Please make an effort to attend this affair and enjoy our medalist, his talk, and the dinner. The dinner cost per person will be \$35 for section members and guests and \$37 for nonmembers.

WALTER E. KRAMER, Chairman  
Gibbs Arrangement Committee

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## MSU ALUMNI CHEMISTRY AND BIOCHEMISTRY

Please join us at the May 21, 1999 Gibbs Award Dinner. Prof. Katherine Hunt, Chair of the Michigan State University Chemistry Department, will attend the meeting. Several tables will be reserved. Please call Paul Labine Ph.D., former student of Prof. Brubaker, at (630) 778-9644 by April 21 if you plan to attend the meeting.



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## NEWS BITS

**AOAC INTERNATIONAL** Board of Directors accepted the resignation of AOAC's Executive Director Ronald R. Christensen during its November 10-11, 1998 meeting, and thanked him for a productive 10 years as chief executive. Christensen indicated it is time for AOAC INTERNATIONAL to move in new directions with new leadership, the idea being that change often results in new perspectives and new ideas.

In 1988, when Christensen assumed leadership of the Association of Official Analytical Chemists, the organization was at a crossroads--dealing with an uncertain identity, as well as financial and administrative difficulties. Under Christensen's stewardship, AOAC members adopted the simple, new name "AOAC INTERNATIONAL" to better encompass its broadened membership interests and international activities.

In the early '90s, AOAC revamped the *Official Methods*<sup>SM</sup> approval process in order to improve scientific oversight and streamline adoption of first action methods. In 1991, the AOAC Research Institute was founded to implement the *Performance Tested Methods*<sup>SM</sup> program for commercial test kits. The *Peer-Verified Methods*<sup>SM</sup> program, an expedited method review process, followed in 1993. Finally, AOAC launched its Laboratory Proficiency Testing Program this past year.

Christensen was also instrumental in developing close ties and strong working relationships with a variety of standards, accrediting, scientific, and international organizations including the Codex Alimentarius Commission, EURACHEM, the International Standards Organization (ISO), and the International Laboratory Accreditation Cooperation (ILAC). At the same time, AOAC has maintained its close ties with the Nordic Committee on Food Analysis (NMKL), the International Dairy Federation (IDF), and other allied organizations.

AOAC publications also underwent changes under Christensen's guidance. AOAC INTERNATIONAL's monthly newsletter, *The Referee*, was converted to a full-color magazine, *Inside Laboratory Management*, in 1997. The organization also changed the compendium *Official Methods' of Analysis (OMA)* to loose-leaf format with comprehensive annual revisions; additionally, *OMA* is now available on CD-ROM.

With Mr. Christensen's departure, a "Search Committee" has been established by the Board of Directors to look for a new Executive Director. The Search Committee is chaired by George Boone, AOAC INTERNATIONAL's

President-Elect, and three other Board Members.

Meanwhile, the business of AOAC INTERNATIONAL continues under the direction of a "Leadership Team" composed of five departmental Directors, the Manager of Administrative Services, and the Executive Assistant--which functions under the auspices of the Board of Directors.

**ALBERT E. POHLAND** became the 1998-1999 President of AOAC INTERNATIONAL at the 112th AOAC INTERNATIONAL Annual Meeting and Exposition held in Montreal, Quebec, Canada, September 13-17, 1998.

An active member of AOAC INTERNATIONAL since 1969, Dr. Pohland has served AOAC as an Associate Referee on Confirmative Methods and as a member of the Foods Methods Committee; the Committee on Meetings, Symposia, and Educational Programs; and the Joint Mycotoxins Committee. Dr. Pohland is beginning his eighth year as a member of the AOAC INTERNATIONAL Board of Directors. In addition to his role as President, Dr. Pohland also serves as a Section Editor for the *Journal of AOAC INTERNATIONAL* and as the Liaison Officer to the International Union of Pure and Applied Chemistry (IUPAC). In 1995, AOAC recognized his many contributions to the Association by naming him a Fellow of AOAC INTERNATIONAL.

Dr. Pohland has worked at the U.S. Food and Drug Administration (FDA) since 1965, his work focusing on natural toxins, particularly mycotoxins. His efforts are documented in nearly 90 publications and resulted in many awards, including the prestigious FDA Award of Merit for foresight, outstanding leadership, and extraordinary cooperation in studies of natural toxicants in foods." He has also served as a lecturer and professor at various institutions while working at FDA, including the U.S. Department of Agriculture Graduate School, American University, and the University of Maryland. Recently, Dr. Pohland was appointed director of the new FAO/WHO Collaborating Center for Mycotoxins of the Joint Institute for Food Safety and Applied Nutrition (JIFSAN), a collaborative effort between the FDA and the University of Maryland.

Dr. Pohland holds a Masters Degree in Chemistry from Purdue University and a Doctoral Degree in Chemistry from Colorado State University. Additionally, he spent 2 years as a post-doctoral research fellow at the University of Nebraska.

## ON-LINE DATA BANK

The ACS Department of Career Services is pleased to announce the release of the On-line Professional Data Bank (PDB). The Online PDB gives members a free and easy way to post their skills, experience, and areas of interest in a searchable database. Employers use this Internet recruiting tool when searching for candidates to fill their open positions---they know they'll find skilled chemical professionals among the membership of the ACS. No other scientific society offers a career management service of such value to its members.

Members facing a job change or considering making a career transition should try the On-line PDB--- it's free, it's state-of-the-art, and it's entirely confidential. Candidates may choose to maintain an active listing (where their profile is posted immediately to a searchable database) or remain inactive for awhile (the profile is saved until the candidate wishes to switch to the active listing). All communication between employers and candidates is handled through an e-mail system created just for the PDB. Using the latest technology, candidate profiles can not be viewed by other users--only qualified employers who register with the ACS may gain access to the database. And an additional confidentiality option allows members to block their contact information and creates a blind e-mail address--no need to worry about your boss finding you on the system--so even members currently employed can use the system without risk.

A new landscape is developing in today's employment climate; to keep one's footing, chemists need to develop their own career management plan. Lifelong employment with one organization has become a retreating reality. Employment data support the prediction that job changes will become more frequent, and more members will start their careers as temporary employees. Career self-management is a necessity for all chemists. Check out the newest addition to the menu of career management tools available from ACS and take advantage of your member benefits. Available through ChemCenter at <http://www.chemcenter.org>

## LEADERSHIP MEETING

On Jan. 8-10, I had the opportunity to attend the ACS Leadership Conference for officers of ACS Large Local Sections. About 3 dozen Section Officers attended, most of them Chairs Elect, in addition to several on the ACS staff in Washington and 3 Councilors and ACS Board members. The facilities were great and the meeting well run and informative. Some observations follow.

### Membership

Demographic data were distributed for both the entire ACS membership and the Chicago section. Although not complete or in differing format in some areas, some interesting observations can be made. Surprising to me at least, Chicago seems to be somewhat younger, both in age and years of membership, than the National average. Less of Chicago is in academia, but female membership is higher than average. The Chicago minority total is less than national, but African American membership is higher. We're also better read: we subscribe to more journals. Less than average of our membership has non-chemistry degrees, but more have bachelors and masters degrees.

What does this mean to the activity of our members and our Section? It's been my observation that the degree of activity of the membership has not been as skewed toward the stereotype of "white male professors" as may occur elsewhere. Others apparently share this opinion. For example, a group of women leaders of the Section recently decided there was less need for a Women's Affairs committee because of the historical and current activity of women in the Section.

However, we should always be alert to new membership involvement opportunities. Although this requires a total effort within the Section, I anticipate that leadership will continue to grow through the Minority Affairs and Younger Chemists Committees. I hope to encourage more involvement by students and student affiliate groups as well as teachers of K-12. One possibility for the latter is to encourage Teacher Affiliate groups, esp. for those who would not otherwise be members.

### Programs, Outreach

The work of the Sections is basically accomplished through the programs initiated by the committees. However, a more obvious benchmark of the activity and health of the Section is attendance at the Monthly meetings. Problems in this area are numerous. Family activities and other personal involvements continue to erode the time and energy available for professional society activi-

ties. Employment unrest continues to flare up, esp. locally. Since one can't please all of the people all of the time (or even some of the time), programming is especially difficult. The Section leadership needs to know more about what the membership wants. Surveys need to be made, but surveys are notoriously expensive and victims of poor response. As a Section we need to increase meeting attendance through better publicity and personal recruitment as well as make members more welcome at meetings.

These are just a few thoughts on how we can do better as a Section. Although it can't be the sole answer to all problems, I foresee that the job will be increasingly easier through use of the Section Website. Please both read it and contribute to it.

BOB BUNTROCK  
Chair Elect

## CAREER HELP

Are you looking for that new career?  
Are you seeking the meaning of that employer's statement?  
Do you need help in finding that next opportunity?  
Do you merely want to talk to someone?

The ACS has launched a means for helping you find the information and assistance you need. All you have to do is find your way onto the Internet. Once there the steps to bringing you in contact with a Career Consultant are simple.

1. Go to CHEMCENTER.ORG
2. Click on Explore Conferences
3. Scroll down to Discussion Forums
4. Click on The ChemCenter discussion forum
5. The first time you enter you'll be asked to fill out a registration form requesting your name, e-mail address and password. Use your ACS membership number as your password. On future logins you'll be asked for your name and password.
6. Scroll down to Chem Careers

There you will see the current discussion threads that have been started and answered. You can add your thoughts,

ideas and questions to any of these, or you can start an entirely new thread. Simply return to this site at a future date and read the myriad of replies to your inquiries.

To save time in the future, simply add this page to your bookmark list after you've gotten to "Chem Careers"

Happy Discussions.

HERB GOLINKIN

## ACS FELLOWSHIPS

The ACS *Congressional Fellowship Program* will place two ACS members in congressional offices for one year beginning in September 2000 to:

gain first-hand knowledge of the operation of the legislative branch; make scientific and technical expertise available to the government; and forge links between the scientific and government communities.

Applications are due January 3, 2000. The ACS is seeking applicants from among ACS members who range from the "seasoned" chemical professional to the recent graduate with or without work experience. ACS provides a stipend and an allowance for relocation expenses.

ACS also selects a *Science Policy Fellow* who works in the Headquarters Office of Legislative and Government Affairs, usually for two years. The Science Policy Fellowship offers a unique opportunity for a scientist to contribute to the Society's discussions and recommendations in areas of importance to the chemical community.

Contact the program office for application information:

Congressional Fellowship Program/Science Policy Fellowship Program  
Office of Legislative and Government Affairs  
American Chemical Society  
1155 16th Street, NW  
Washington, DC 20036  
202/452-8917  
E-mail: [congfellow@acs.org](mailto:congfellow@acs.org)  
Information on the Web: <http://www.acs.org/govt>

## CALENDAR

**April 27-28, 1999.** The American Chemical Society presents "Toxicology: Principles and Applications" (TOXC9904) in San Francisco, CA. For more information call the ACS Short Course Office at (800) 227-5558, ext. 4508.

**April 28-30, 1999.** The American Chemical Society presents Frontiers in Polymer Chemistry (FRPC9904) at the University of Akron in Akron, Ohio. For further information contact the ACS Short Course Office at (800) 227-5558, ext. 4508.

**April 29-30, 1999.** The American Chemical Society presents "Chemical Mechanisms in Toxicology" (TOXM9904) in San Francisco, CA. For more information call the ACS Short Course Office at (800) 227-5558, ext. 4508.

**May 18-21, 1999.** The American Chemical Society presents "High Performance Liquid Chromatography: Theory and Practice" (HPTP9905) at the Donaldson Brown Hotel and Conference Center, Virginia Tech, Blacksburg, Virginia. For additional information call the ACS Short Course Office at (800) 227-5558, ext. 4508.

**May 21, 1999.** The Chicago Section ACS presents the Willard Gibbs Award Banquet to be held at Monastero's Restaurant. For further information call the Section office at (847) 647-8405.

**May 24, 1999.** Northwestern University, Department of Chemistry presents a lecture titled: "Quantum Chemical Models" given by Professor John A. Pople, Co-recipient of the 1998 Nobel Prize in Chemistry held at Department of Chemistry Northwestern University, 2145 Sheridan Road, Evanston, IL Technological Institute at 4 p.m. For more information contact Dianne de Haseth, Department Assistant at (847) 467-1802.

**May 24-26, 1999.** The University of Wisconsin Milwaukee presents "Laboratory Quality Management Systems" at the University Center for Continuing Education in Milwaukee, WI. For additional information call Terrance P. Lynch, Program Director at (414) 227-3152 or Patricia Cieslik, Program Assistant at (414) 227-3101.

**June 15, 1999.** The International Quality and Productivity Center presents "Agricultural Biotechnology: Food, Feed & Fiber" (C\*A193B) at the Wyndham Emerald Plaza Hotel in San Diego, CA. For more information call (800) 882-8684 or (973) 256-0211.

**June 20-24, 1999.** The Air & Waste Management Association presents the 92nd Annual Meeting & Exhibition at the America's Center in St. Louis, Missouri. For further information call (800) 270-3444.

**June 25, 1999.** The Chicago Section ACS presents John Moore of the University of Wisconsin-Madison on "Can Virtual Reality have Real Virtue? Using Electronic Media Effectively" to be held at Lee Wing Wah. For more information call the Section office at (847) 647-8405.

**July 19-23, 1999.** The Massachusetts Institute of Technology presents "Fiber Reinforced Composite Materials". For further information contact the MIT Professional Institute at (617) 253-2101.

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