

# Cornell Chemistry

August 1992  
Issue 54

## Gala Celebration Held May 16



Over 250 people gathered in Ithaca on Saturday, May 16, to celebrate the distinguished careers of chemistry professors Fred McLafferty, George Morrison, and Harold Scheraga. All three scientists are retiring from active teaching duties, but plan to continue their research careers.

Friends, colleagues, and family heard former postdoctoral associate Michael Gross, and former students, Thomas Isenhour and Shelly Rackovsky extol their mentors with respect, warmth, and humor. Despite lowering skies, attendees gathered on the Baker steps for a group picture. Later in the day, everyone enjoyed a banquet in the Carrier Ballroom of the Statler Hotel.

Messages from those who could not attend were delivered, and included congratulations from University President Frank Rhodes.

Gifts from the Department of Chemistry included special parking permits, fabricated in our own machine shop and "good until the middle of the next century", according to the inscriptions.

# The Cornell/Industry Connection

**The CU Chemistry/Industry Connection**  
Research in Baker and S.T. Olin Labs is conducted by 32 faculty members, numerous postdoctoral associates, and over 190 graduate students. Most of the costs associated with that research are covered by money from government agencies and industry.

## Many Kinds of Gifts

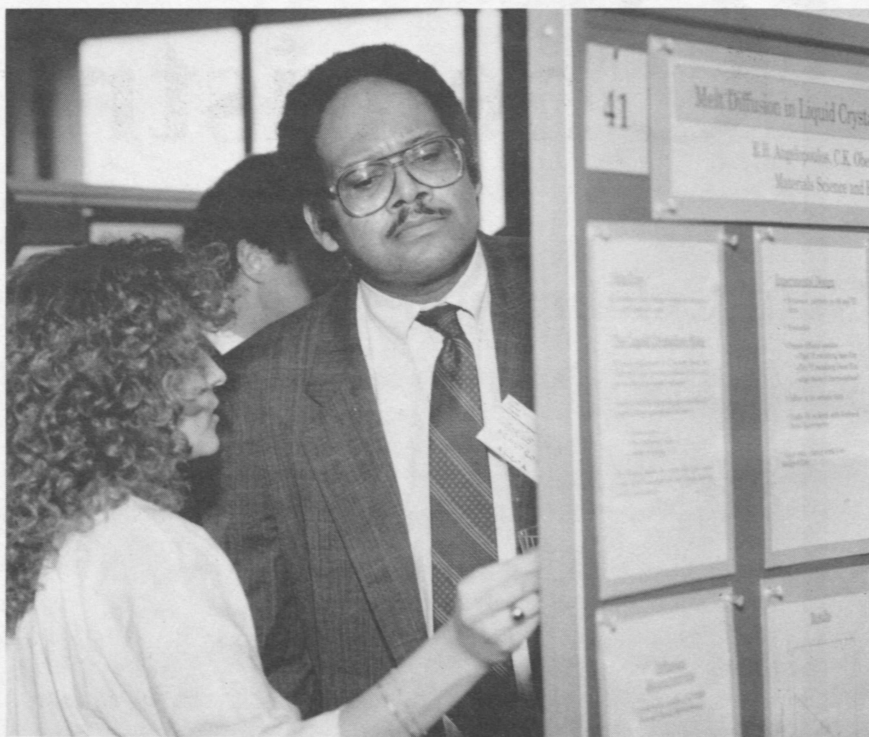
Gifts from industry may be specifically for the support of graduate students: fellowships from Dow Chemical Foundation, Mobil Corporation, IBM, Syntex, and Procter & Gamble provide tuition and stipend for outstanding graduate students involved in many different kinds of research.

Some chemistry professors have joined with their colleagues from other departments at Cornell to form research area groups that offer partnership opportunities to corporate sponsors. The company pays a membership fee, perhaps \$40,000 per year, and in return has a chance to visit with the students doing research of interest to the company, or to use the sophisticated equipment available on campus. An annual symposium is usually held on campus, at which both industry and campus scientists present talks and posters; much discussion takes place during coffee breaks, lunch, and dinner. The membership fee helps to support graduate students and to buy equipment and materials. Examples of research area group partnerships are the Polymer Outreach Program and the Ceramics Group, both of which are comprised of professors and their groups from chemistry, chemical engineering, and materials science and engineering, along with other departments.

Sometimes we receive gifts of equipment, such as Hewlett-Packard's gift of GC/MS/IR instrumentation for the Mass Spectrometry Lab, and Microsoft Corporation's gifts of software. As we look at our teaching and research laboratory instrumentation needs for the next decade, we seek opportunities for

companies that manufacture both hardware and software to place their products at the fingertips of young scientists who, once trained, will want to use familiar equipment in their own laboratories.

Some corporate gifts are intended to support specific research, such as Schering Corporation's contribution to Professor Jerrold Meinwald's work on the chemical synthesis of compounds obtained from fireflies, or Procter & Gamble's recent gift in support of Professor George Morrison's research in calcium and organic ion localization in the skin using ion microscopy. Some companies help in the funding of young professors just starting out: Merck Sharp & Dohme's Faculty Development Grant benefitted Professor Tadhg Begley early in his career here at Cornell, while the Dow Chemical Company Foundation provided funds to match a Presidential Young Investigator award for Professor Atsuo Kuki.



*Laura Norton, from Professor Kramer's group, and George Armstrong, from ALCOA, discuss her poster at the Polymer Outreach Symposium.*

Miles Incorporated supports annual lectures in the field of Polymer Chemistry. The annual grant has made it possible to bring to Cornell outstanding researchers in polymer science from all over the world.

Some gifts are unrestricted, to be used at the department's discretion. An example is a recent Rohm and Haas Aid-to-Education Grant, which helped to support the summer TA Training Program for entering graduate students. An unrestricted grant from E.I. du Pont de Nemours Inc. was used last year to award teaching prizes to five graduate students and one teaching associate, and to purchase two anti-vibration tables to underlie the magnets of our 400- and 500-MHz NMR spectrometers.

## University-Industry Partnership

Our corporate supporters see themselves as partners in the task of training scientists, and they show their willingness to be involved in the process in many ways.



Each year we hold workshops for graduate students to prepare them for working in the world outside the university. The workshop leaders are chemists who will be recruiting for their companies on campus later in the fall.

Speakers from several companies have participated in the two series, "The PhD Chemist in Industry" and "Chemistry in Industry." In the former, PhD alumni describe their jobs; the latter are discussions of the many different ways chemistry is used in industry. We are looking forward to a Procter & Gamble presentation called "Professional Analytical Chemists in Industry," which will be held in Baker Lab on September 12. Area college undergraduate students will be invited to attend, along with our graduate students, in the hope of stimulating their interest in analytical chemistry.

Dr. Rose Ann Dabek, a chemist who is also a lawyer, came from Procter & Gamble in March to give a seminar about patents and copyrights. Her talk, full of information interesting to faculty and staff as well as graduate students, led to discussions of several topics, including alternative careers for chemists.

#### **Cornell Chemistry Faculty's Role**

Research faculty spend more time than ever before raising money to support their work, which means writing grant proposals to government and private agencies, and maintaining contact with companies that have an interest in the basic science being done in academic labs. Of the one million dollars industry gave to Cornell Chemistry in 1990-91, over 80% went to faculty who had actively sought that support through personal contacts with scientists from industry. In addition, Cornell Chemistry faculty members serve as consultants to a number of industries, and those relationships strengthen department ties and open multiple lines of communication.

A professor often acts as a graduate student's first link with the world of industrial research. Professor Frank DiSalvo arranges for his group to visit laboratories where they will experience for

the first time what it's like to be a chemist in industry. Those "road trips" to DuPont, Corning, Kodak, and IBM are usually the students' first experience with a non-academic research environment. They return to campus with a much better idea of the company's atmosphere and operations. At the same time, the corporate hosts have a chance to get to know the really good students and ask them about the projects in progress in Baker Lab.

Individual students are often sent to corporate research settings for periods ranging from a few days to several weeks. Katherine Uhrich, PhD '92, a member of Professor Jean Fréchet's research group, spent a summer at Eastman Kodak. Michael Badding, PhD '92, and Deborah Vennos, members of the DiSalvo research group, spent time at AT&T Bell Labs working with an expert in solid-state crystallography. "It helped me learn to recognize when I have an unsolvable structure," said Vennos, "so I won't waste hours of time trying to find out what it is."

#### **How Does Industry Benefit?**

Collaborative research projects grow out of mutual need. Corporate partnership with our research faculty and their students means that state-of-the-art, basic research is achieved at a low cost to the company. The August 19, 1991 issue of Chemical and Engineering News ranked Cornell fifth in the nation in chemical research and development spending. Often the research groups in S.T. Olin Laboratory come up with innovative

solutions to problems shared with their colleagues in the commercial world. Sometimes technology developed in Cornell Chemistry laboratories is available for licensing; those companies that maintain collaborative relationships with Cornell scientists have the best chance of winning the licenses.

Our corporate partners have access to a pool of well-trained, highly motivated young scientists. The autumn corporate recruiting season brings chemists from about 20 companies to the Department of Chemistry to talk with graduate students who are entering the job market. Spring brings a round of interviews with undergraduates, many of whom now offer their skills not only in chemistry but related fields as well, thanks to the alternative major and Cornell's interdisciplinary spirit. Cornell Chemistry alumni are the most obvious link with industry, since over 2000 of you now work in more than 120 different companies, some big and some very small.

It is clear that Cornell Chemistry's relationship with industry is both complex and dynamic. At the center of the relationship is a philosophy articulated by Frank DiSalvo, who came to Cornell after 15 years as a research scientist at AT&T Bell Labs. "It's important that we get our best students to think about industry and how science is going to make a difference to this country," said DiSalvo. "We need to convince them that science outside of academia is at least as challenging and can be fun and personally rewarding, as well."



*Dr. Robert Pyles, of Miles Inc., delivered a \$5,000 check to Jon Clardy in support of this year's Miles Lecture.*

# Undergraduate Student News

## Commencement 1992

Cornell University held its 124th Commencement ceremonies on Sunday, May 24, 1992. After the ceremonies at Schoellkopf Field, there was a brief reception in the lobby of Baker Laboratory. Bachelor of Arts degrees were handed out to the following graduating seniors in a ceremony held in Baker 200:

**Summa cum laude:** Evan Thomas Powers. **Magna cum laude:** Ethan Emmet Corcoran, Michael Patrick Crowley, Henry Tsun-Yen Liu, Amy Beth Pangborn, Theodore Peter Rakitzis. **Cum laude:** Staci Jeannette Eisner, Anthony Alexander Granato, Dennis Alan Hall, Claudio Alberto Mosse, Patricia Lynn Zurner.

Also Jade Ting-Nan Chao, Brian Ming Chen, John Wen-Yueh Chen, Susan Elizabeth Chen, Eugene Jinkyu Choi, Walter Cansino Chua, Robert DiRaimo, Gabriel Kung Ming Foo, Brian David Herndon, Christopher R. Hove, Elizabeth Huang, Philip H. Huang, Milla Kaminsky, Seth David Kaplan, Jesse Ko, Maria D. Kowal, Anthony James Langone, Edwin J. Lee, Kathy Yu-Pei Liu, Alice Elizabeth Mauskopf, Shannon Colleen O'Barr, Kyumin M. Oh, Marc D. Paradis, Suzanne G. Paradis, Trevor Daniel Rudalevige,



Benjamin Samstein, Michael David Schwartz, Joseph Robert Shaeffer, Michael Dongsik Shin, Thomas Siefert, Jennifer Frances Smith, David Frederick Stuhlmiller, Joyce Rachel Talavera, James George Tassie, Michael Jesse Tauber, Karen Elizabeth Tribble, David Edward Wroblewski.

**January Graduates:** Cherryann Joseph, Alice Lin, Edward Pazmino, Erin Walter, Susan Yan.

## Undergraduate Award Winners

### The A.W. Laubengayer Prize

Leah Berkery '95  
Dion Burow '95  
Lecia VanDam '95

### CRC Press Award

Steven Harford '94  
Brent Stockwell '94

### The ACS Analytical Chemistry Prize

Patricia Lynn Zurner '92

### Harold Adlard Lovenberg Prize

Jonathan Lobell '93

### The American Institute of Chemists Medal

Ethan Emmet Corcoran '92

### The George C. Caldwell Prize

Michael Patrick Crowley '92  
Alice Elizabeth Mauskopf '92

### The Merck Index Award

Seth David Kaplan '92  
Henry Tsun-Yen Liu '92  
Amy Beth Pangborn '92

### The Leo and Berdie Mandelkern Prize

Evan Thomas Powers '92



# Graduate Student News

## Graduate Degrees Awarded since May 1991

### May 1992

**Giuseppe Marco Bommarito**, H.D. Abruña, In situ Studies of Electrochemical Interfaces Using X-Ray Standing Waves

**Aberra Fura**, F.W. McLafferty, Characterization of Elusive Neutrals and Ions by Neutralization-Reionization Mass Spectrometry

**Vincent Peter Hradil**, P.L. Houston, Two-Dimensional Imaging of Photodissociation Products

**K.A. Uday Kumar**, J.M.J. Fréchet, Hydrogen Bonding and Liquid Crystallinity: The Connection

**Parmeshwaran Gopinath Nayar**, T.P. Begley, Mechanistic Studies on Phenoxazinone Synthase and Protochlorophyllide Reductase

**Kathryn Elizabeth Uhrich**, J.M.J. Fréchet, Design, Synthesis, and Characterization of Novel Dendritic, Hyperbranched and Linear Organic Macromolecules

### January 1992

**Kathleen Agnes Palmer**, H.A. Scheraga, Modelling "Loops" of Proteins: Applications to Homology-Based Predictions of Protein Structures

**Bradford Daniel Pendley**, H.D. Abruña, Construction, Characterization, and Uses of Ultramicroelectrodes

**Alan M. Walsh**, R. Loring, Theoretical Study of Time-Resolved Nonlinear Spectroscopy as a Probe of Intramolecular and Intermolecular Dynamics in Solids and Liquids

**Yi Zheng**, B.A. Baird, Fluorescence Resonance Energy Transfer Studies on Conformations of Immunoglobulin E in Solution and Bound to Its High Affinity Receptor

### August 1991

**David Acevedo**, H.D. Abruña, Electrochemical Studies of a Redox Active Self-Assembling System: Electron Transfer, Solvent Effects and Particle-Particle Interactions

**Mark Monroe Banaszak-Holl**, P.T. Wolczanski, Transition Metal Nitride Clusters and Solid State Materials via Alkyl Ammonolyses of Molecular Precursors

**Ah-Wing Edith Chan**, R. Hoffmann, From Chemisorption to Mechanisms on Surfaces: Theoretical Studies Using the Extended Hückel Method

**Donald Erlyn Drinkwater II**, F.W. McLafferty, Study of Neutral and Cationic Potential Surfaces by Neutralization-Reionization Mass Spectrometry

**James Thomas Fahey**, J.M.J. Fréchet, Design, Synthesis and Evaluation of Novel Polymeric Materials for Microelectronics

**Brian Gerrish Frederick**, T. Rhodin, Electron and Vibrational Structure, Chemisorption and Supported Cluster Chemistry of Aluminum Oxide Thin Films

**Paul Evan Rauch**, F.J. DiSalvo, Synthesis and Structure of New Ternary Nitrides and Chalcogenides

**Jeroen Bernard van Beek**, A.C. Albrecht, Nonlinear Optical Properties of the Polyenes: The Vibronic and Electronic Origins of Third-Harmonic Generation in All-Trans Beta-Carotene

**Yat-Ting Wong**, R. Hoffmann, Investigation of Static and Dynamic Surface Phenomena by the Extended Hückel Method



*David Rydberg and his mother at the commencement reception in Baker Lobby.*

## Graduate Student News

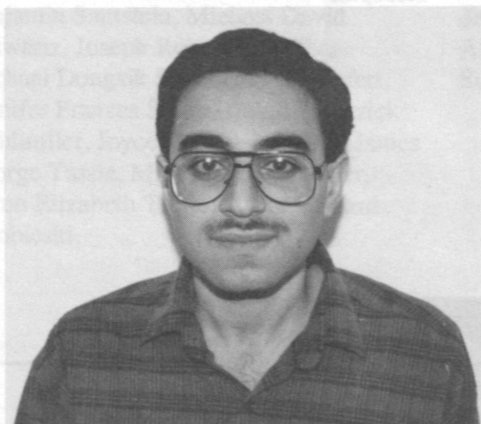
The Chemistry faculty selected five graduate students to receive the prestigious DuPont Teaching Awards in April 1992. Honored during the General Chemistry Colloquium on April 16 were (left to right) **Tim Glines**, **Dean Wilson**, **Sheila Adamus**, and **Cameron Miller**. Not pictured, **Lynda Pierini**.



**Jordan Bennett** (pictured at left), a second-year student in Professor Peter Wolczanski's research group, was selected as a 1991-92 winner of the Clark Teaching Award for TAs. Jordan received his BA from the Pennsylvania State University. While at Cornell he chose a major concentration in inorganic chemistry with a minor concentration in materials science. Jordan's thesis project will involve the preparation of metal-metal bonded polymers. He was a teaching assistant for Chemistry 215 and 216, the honors-level freshman chemistry course, for two years. Jordan is contemplating an academic career after the completion of his PhD work.



**Walid Houry** (pictured at right), a member of the Scheraga research group, was awarded the 1992 Wachter Prize for outstanding work by a graduate student. Walid, a native of Lebanon who received his BS degree from the American University of Beirut, is studying the folding kinetics of the enzyme Ribonuclease A, which cuts RNA molecules. He is also interested in determining the relation of the three-dimensional structure of the enzyme to its kinetic and thermodynamic properties.



*Editor's Note: We took away years of hard work from two graduate students mentioned in Newsletter 53! Kathryn Uhrich was a fifth-year student, not a third-year student, and Michael Badding was also a fifth-year student, not a fourth-year student. We apologize to both.*

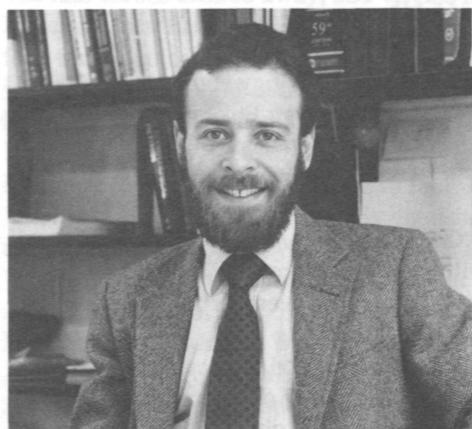
The 1992 Outstanding Graduate Student Symposium was held on Tuesday, March 24. Three fifth-year graduate students, winners of the 1992 Tunis Wentink Prize, gave brief talks about their research and received checks of \$100, presented by Professor David Zax.

**Michael Badding** (right), who is a member of Frank DiSalvo's group, described his work on "Novel Compounds in the Ternary Tellurides of Niobium and Tantalum." **James Gilchrist** (left), a member of David Collum's group, presented a summary of his work on "Structural Chemistry of Lithium Dialkylamides by  $^6\text{Li}$  and  $^{15}\text{N}$  NMR Spectroscopy." **Thomas Peterson** (center), who works with Barry Carpenter, entitled his talk, "Bewitched, Bothered, Bewildered and Biradicals."





# Faculty News



*Hector D. Abruña*

The John Simon Guggenheim Foundation has awarded a fellowship to **Hector D. Abruña** for "Structural Studies of Electrochemical Interfaces." Abruña has received a new grant from the National Science Foundation for "In-situ Structural, Distributional and Electrochemical Studies of Electrodes Modified with Surfactant Monolayers." The Office of Naval Research has awarded him funds for "In Situ Studies of Electrochemical Interfaces with X-Rays."

The American Academy of Arts & Sciences has elected **Andreas A. Albrecht** and **Francis J. DiSalvo** to the ranks of its Fellows. This brings to seven the number of Cornell Chemistry faculty who are Fellows of the Academy.

**Tadhg P. Begley's** project, "The Mechanistic Enzymology of Thiamine Biosynthesis," has been funded by the Department of Health and Human Services.

**James M. Burlitch** has received a continuation for his project "Investigation of Sol-Gel-Derived Coating for Ceramic Reinforcement Fibers" from Corning.

The College of Arts and Sciences recently held its first convocation to honor outstanding faculty and students. **Barry Carpenter** received the newly established Stephen and Margery Russell Award for

Excellence in Teaching. The award recognizes outstanding teaching efforts in the College, and was made possible by a grant from Stephen A. Russell, AB '60, MBA '61, and his wife, Margery. Carpenter's research on Control of Selectivity through Cosolvent Design has been funded by a 1993 American Chemical Society-Petroleum Research Foundation grant-in-aid.

**Greg Ezra** has received a National Science Foundation supplemental grant to his project "Energy Transfer, Complex Formation and Unimolecular Decay in Few-Body Systems."

**Jack Freed** has received a continuation of his grant "Molecular Relaxation by ESR Spectroscopy and Related Phenomena" from the National Science Foundation.

**Bruce Ganem** has received a new grant from the Sugar Association for his project, "Transforming Sucrose into Water-Absorbing Biodegradable Polymers and Biodegradable Polymers for Packaging."

The National Foundation for the History of Chemistry in Philadelphia hosted a symposium called "Organic Worlds" on April 10 and 11. **Roald Hoffmann** was a featured speaker at the event, which signalled the opening of a traveling exhibit, "R.B. Woodward and the Art of Organic Synthesis." Hoffmann has also received a supplement from the National Science Foundation for his project "Molecular Orbital Theory of Molecules and Extended Structures."

The Analytical Division of the Royal Society of Chemistry in Great Britain has awarded **Fred W. McLafferty** the Robert Boyle Medal in Analytical Chemistry.

**John McMurry** and **Rolf Gleiter**, a scientist at the University of Heidelberg, have been jointly awarded a research prize by the Max Planck Society in Germany. In a new program established last year by the Max Planck Society and the Alexander von Humboldt Foundation, each German

university was allowed one joint German/foreign nomination; a total of 26 awards were made.

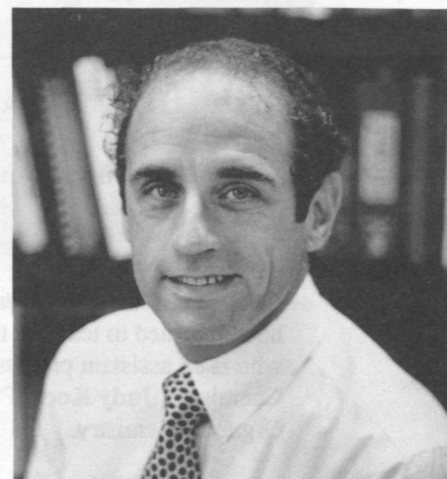
**Jerrold Meinwald** has received new grants from Research Corporation for his project "Natural Product Synthesis", and from the National Science Foundation for "U.S.-Latin America Cooperative Science Program: Identification of Sex Attractant Pheromone."

**George H. Morrison** has received funding from the National Science Foundation for "Near-Field Scanning Optical Microscopy for Chemical Analysis."

**Harold Scheraga** has been awarded a new grant from the National Science Foundation for "U.S.-France Cooperative Research: The Multiple-Minima Problem in Molecular Recognition."

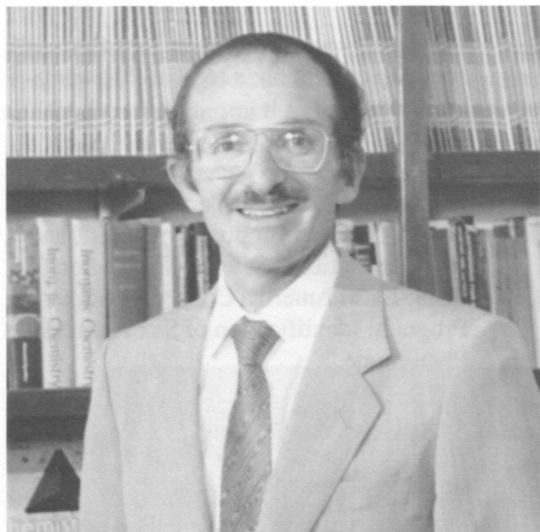
The American Association for the Advancement of Science has elected **John R. Wiesenfeld** to the rank of Fellow in recognition of his studies of gas phase reaction dynamics and atmospheric photochemistry. Seven current members of the faculty have been so honored.

**Charles Wilcox** and **Simon Bauer** have received a grant from the National Science Foundation for "Exploration of Transition Structures."



*John R. Wiesenfeld*

# Department News



## Fall 1992 Baker Lectures

**Charles R. Cantor**, Professor of Molecular and Cell Biology at the University of California at Berkeley, will be the Fall 1992 George Fisher Baker Resident Lecturer. Cantor is also Principal Scientist of the Department of Energy Human Genome Project, and Vice President of the Human Genome Organization.

The five-week lecture series is entitled, "Genomics: The Analysis of Genome Structure and Organization." Lectures will be held in Baker 200 at 11:15 am on Tuesdays and Thursdays from September 22 through November 5.

Cantor's career has been devoted to molecular biology and molecular biophysics, particularly in nucleic acids research. He was a professor of chemistry with a joint appointment in biological sciences at Columbia, and was chairman of Genetics and Development at that institution before moving to Berkeley. Cantor was the 1986 Debye Lecturer at Cornell.

## Richard Evans Prize Awarded to Outstanding Teaching Associate

**Rebecca Regan**, Laboratory Director for Chem 215 last fall and Chem 216 this spring, has been awarded the Richard Evans Prize for 1991-92. Rebecca, who was a graduate student in this department in 1986-87, also works as a lab technician in the Biochemistry Department. She was a teaching associate for Chem 215/216 in 1989-90 and fall 1990, and was appointed lab director for the courses in spring 91. "Her excellence as a teaching associate has carried over into her work as Lab Director," commented John Terry, Associate Director for Technical Operations.

The prize is named for a teaching associate who taught introductory chemistry courses at Cornell from 1980 until his death in 1990. "Having known Dick," said Rebecca, "it was really an honor to be chosen to receive the prize that bears his name."



*John Terry and Rebecca Regan*

## Visiting Professors

The 1992-93 Introduction to Experimental Organic Chemistry courses will be taught by alumnus **Steve Russo**, PhD '79, who is on leave from his post as an assistant professor of chemistry at Indiana University.

Steve is also teaching Elementary Organic Chemistry in this year's Summer Session. Other alumni have returned to teach in the Summer Session and Engineering Co-op programs: **Tom Neils**, PhD '89, who is an assistant professor of chemistry at Wisconsin Lutheran College, is teaching Introduction to Chemistry; **Judy Koch**, PhD '72, an assistant professor at Ithaca College, is teaching Introductory Organic Chemistry.

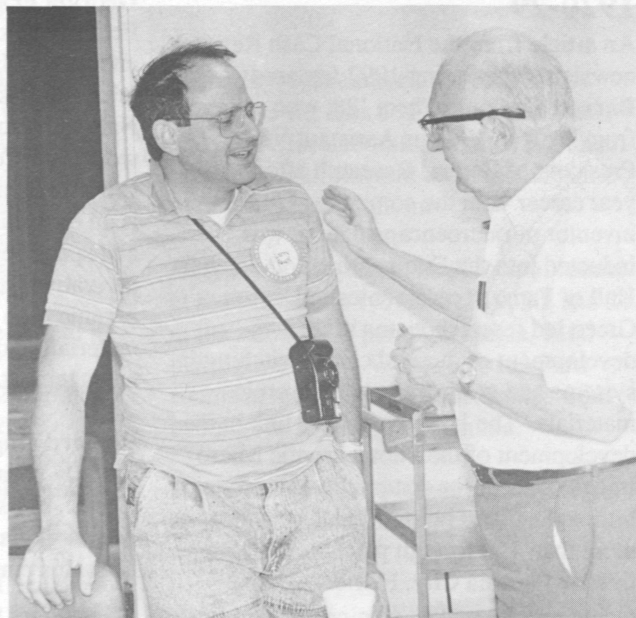
Other friends who have returned to teach this summer are **Tom Frey**, a professor at California Polytechnic State University, teaching Introduction to Experimental Organic Chemistry; and **Kathy Richardson**, a professor at Capital University in Columbus, Ohio, teaching Introductory Organic Chemistry.



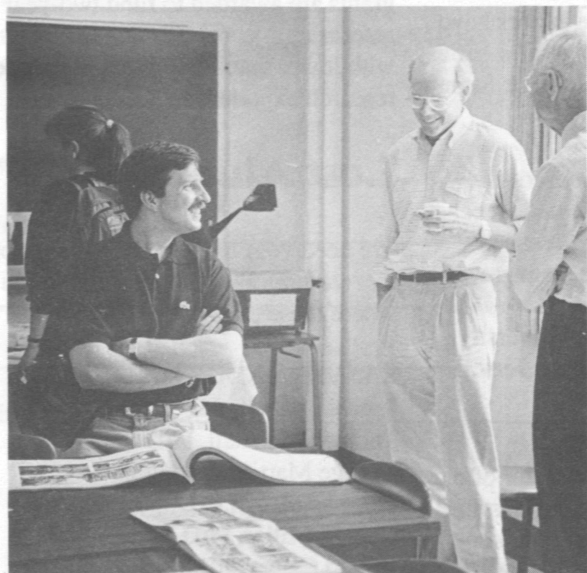
# Reunion 1992

The rain clouds cleared away, and we had excellent attendance at our Reunion Open House on Friday, June 5. We were glad to see the following alumni and their guests: **Eugene Feingold**, AB '52, who is a professor emeritus at the University of Michigan School of Public Health; **J. Lee Hollowell**, AB '42, who is retired and living in Hockessin, Delaware; **Gordon Kiddoo**, BChemE '43, who divides his time between North Carolina and Florida; **Leo Mandelkern**, AB '42, PhD '49, the R.O. Lawton Distinguished Professor of Chemistry at Florida State University in Tallahassee; **Bill Morgan**, AB '52, MD '56, a physician at the Gunderson Clinic in LaCrosse, Wisconsin; **Alfred H. Pagano**, AB '52, a senior consulting associate with E.I. du Pont de Nemours Inc. in Deepwater, New Jersey; **Robert C. Platt**, AB '73, now living in Arlington, Virginia; **Donna Prohazka**, MD, AB '80, a physician at the Baystate Medical Center in Springfield, Massachusetts; **Larry Reich**, DDS, AB '67, who lives in Auburn, Massachusetts; **Martin L. Sage**, AB '47, a professor of chemistry at Syracuse University; **Gloria Welt Sage**, AB '57, a senior environmental chemist at Syracuse Research Corporation; **Daniel Sajewski**, AB '82, a resident physician in anesthesiology at Yale New Haven Hospital; **Christian R. Sporck**, AB '42, PhD '46, who lives in Cupertino, California; **Georgia Green Weinstein**, AB '67, the organic chemistry coordinator at Boston University; and **Eugene Wilkerson**, AB '52, a science teacher and chemical safety coordinator at Belmont High School in Los Angeles, California.

Often heard in the conversations that day were remarks about "going back to my chemistry" because of new government regulations concerning health and environmental safety. It seems chemistry really is a life science, after all!



*Professor Simon Bauer with Larry Reich*



*Daniel Sajewski, left, chats with Professors John McMurry, center, and William T. Miller.*



*Professor Fred McLafferty and Gordon Kiddoo*

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# Alumni News

## 1920-29

An article from the National Cash Register newsletter for Spring 1992 featured **Barrett Green**, BChem '28, who retired from NCR in 1971 as Assistant Vice President of Central Research after a 38-year career with the company. Green, the inventor of microencapsulation, was inducted into the Engineering and Science Hall of Fame at ceremonies in Dayton. Green led research teams in the development of thermal color switching systems and grain-free photochromic materials. The latter was a key link in the development of the Photochromic Micro Image concept for document storage and retrieval. Green holds 47 U.S. patents and more than 150 foreign patents. He now lives in Panama City, Florida.

## 1930-39

**Alfred W. Bennett**, AB '33, recently received his 50-year pin from the American Chemical Society. He says it's a good feeling to survive 50-year membership.

**Joseph Brant**, PhD '35, and family moved to Columbus, North Carolina, early in June. Dr. Brant retired in 1970 as director of research at Colgate-Palmolive Co. and subsequently accepted a Callaway chair at Georgia Tech in the Textile Engineering Dept.

## 1950-59

**William Howard Arnold**, AB '51, is now president of Louisiana Energy Services (a uranium enricher) after 33 years with Westinghouse Electric. Arnold received his PhD in physics from Princeton in 1955. His son, Edward V. Arnold, received his AB in chemistry from Cornell in 1978, and his PhD in 1982. Ed was a member of the Clardy group.

**Richard Ferrari**, AB '54, MS (Food Science) '55, has been employed 33 years at Sterling Winthrop Pharmaceutical Research Division in Rensselaer, New York. After leaving Cornell, Ferrari earned a PhD in biochemistry from the Pennsylvania State University in 1959.

**Georgia Fritz**, Grad, has been named a Fellow of the American Society for Testing and Materials. Fritz, a staff member and laboratory associate at Los Alamos National Laboratory, was honored for her work with Committee E-19 on Chromatography over a 15-year span. She is an expert in the areas of chromatography and spectrophotometry of nucleic acid derivatives, the analytical chemistry of organic high explosives and related materials, explosives safety, and waste management.

**Richard Haggard**, AB '58, PhD '65, recently became a registered US Patent Agent. He is currently working as a patent liaison in plastics research with Rohm and Haas, his employer for 27 years.

## 1960-69

**Donald B. Boyd**, postdoc '67/68, edited Volume 2 of *Reviews in Computational Chemistry* (VCH Publishers, New York, 1991). Chapters in the book series review recent research and present mini-tutorials tailored for the beginner. Commenting in the *Journal of the American Chemical Society*, Dr. Jurgen Schnitker (University of Michigan) observed that "Many of the articles are indeed accessible to any interested nonspecialist, even without theoretical background. One of the safe bets of predicting the future of chemistry is an ever increasing importance of computational methods. The editors have to be praised for starting up a review series on computational chemistry in book form, a more than timely effort."

**Ralph R. Miano**, PhD '62, retired after nearly 30 years with Celanese and Hoechst Celanese as Vice President, Advanced Materials Division. His wife, **Margaret**, AB '60 and MS '61, is obtaining her PhD in Urban Planning at Rutgers University. The Mianos live in Summit, New Jersey.

## 1970-79

**Greg Hall**, AB '74, former director of our laser facility, and his wife, **Penny Bealle**, AM '85, announce the birth of their son, **Pelle Bevan Hall**, on January 11.

## 1980-89

**Jackie Fitch Fleckenstein**, AB '81, is completing a fellowship in gastroenterology at Johns Hopkins. She lives in Columbia, Maryland, with husband Jim and daughter Margaret, 3.

**Joseph M. Ragosta**, PhD '86, has accepted a position as Vice President of Technology of Graver Chemical, a division of The Graver Company, in Union, New Jersey.

**Jay Wrobel**, PhD '83, and **Theresa Kronik Wrobel**, AB '81, live in Lawrenceville, New Jersey, where Jay is a medicinal chemist for Wyeth Ayerst and Theresa works in market research. They have two children: Julia, 4, and Greg, 1.

## 1990-

**Mark Banaszak-Holl**, PhD '91, will join the Department of Chemistry at Brown University as an assistant professor in July 1992. Mark has been a postdoctoral associate at IBM's T.J. Watson Labs in Yorktown Heights, New York.

**Evan Williams**, PhD '90, has received a 1992 Arnold & Mabel Beckman Foundation Award Research Grant for his work on capillary zone electrophoresis/tandem MS of biomolecule mixtures at the University of California at Berkeley. The grants are awarded to fund two-year research projects by young scientists, all with fewer than three years of independent research experience.

## Lost Alumni

We need your help locating the following lost alumni. Please contact us if you know where these people are.

**Eric Margolis**, AB '86  
**Jonnise Marsh**, AB '73  
**Thomas Marshall**, PhD '50  
**George Martin**, AB '87  
**Thomas Martin**, AB '68  
**George Miller**, PhD '61  
**Gerald Oster**, PhD '43  
**John Ouderkirk**, PhD '57  
**Catherine Page**, PhD '85  
**Robert Platt**, AB '73



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## Alumni Deaths

Helen Slimm Bruce, AB '18,  
March 9, 1991  
Fernando Cordovez, BChem '48,  
June 1, 1991  
Daniel R. Donovan, BChem '23,  
April 7, 1990  
David A. Dreiling, AB '38,  
Sept. 24, 1991  
William G. Kinsinger, PhD '39,  
June 11, 1991  
Richard J. Mayer, Chem Eng. '55,  
Sept. 5, 1991  
Seymour M. Robertson, BChem '45,  
April 27, 1991  
A. Lymon Satterthwaite, BChem '22,  
Sept. 15, 1991  
George B. Shields, BChem '50,  
Dec. 26, 1989

## Chemistry Days

Plans for Chemistry Days in November are proceeding apace, and we've had a good response so far! This is your chance to sit in on classes, tour the undergrad chem labs, attend short seminars on the latest chemistry topics, and exchange ideas with faculty and students.

**Thursday, November 19** We'll hold a Chemistry Careers Panel for undergraduates at 4:40 pm in 200 Baker Lab. Three alumni have already volunteered to be panelists (in response to the last newsletter). Anyone else want to be on the panel?

**Friday, November 20** You'll be able to attend both undergraduate and graduate-level courses. After lunch with the chemistry majors, choose from a number of seminars on current research topics given by faculty members (in language a nonspecialist can understand). Dinner will be at the Statler, where we'll be joined by faculty members.

**Saturday, November 21** From 10 to noon, tour the labs and facilities in Baker and S.T. Olin Laboratories, then it's lunch on your own, followed by the Penn game in Schoellkopf Stadium.

**Hotels:** We've reserved a block of rooms at the Statler for November 19, 20, and 21 at the rate of \$90 per night single, \$100 per night double. We've also reserved rooms at the Sheraton, just 2 miles from campus, at \$81 single or double.

**Registration Fee:** \$40 per person covers Friday lunch and dinner, plus all course materials.

Please plan to join us. Reserve your place by cutting out the form on the bottom of this page and mailing it to **Donna Middleton, Manager of External Relations, Department of Chemistry, Baker Laboratory, Cornell University, Ithaca, NY 14853-1301.** (We'll ask you for the money later.)

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\_\_\_\_\_ Yes! I want to attend the Chemistry Days in November 1992. Please reserve a place for me.

I will confirm my reservation by sending a \$40 per person registration fee by October 15, 1992 (check made out to Cornell University).

Name \_\_\_\_\_

Address \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Daytime Phone \_\_\_\_\_

I'm interested in being a Chemistry Careers panelist on Thursday, November 19 \_\_\_\_\_

This year's date is not good for me, but I'd like to come next time. A good date for next time would be:

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