

# CHEMICAL *Compositions*

chemistry & biochemistry  
departmental newsletter

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## Welch Hall Safety Enhancement Project Underway

On Saturday, October 19, 1996, over 90 firefighters were called to a six-alarm fire that occurred in one of the labs of Dr. Steve Martin on the 5th floor of the West Wing of Welch Hall. The fire started when sodium metal that a postdoctoral researcher thought had been decomposed came in contact with water. This caused a small fire that erupted into a major blaze when a nearby glass bottle of waste solvent broke and added fuel to the fire. No one was injured in the fire and thanks to the brave and dedicated actions of the Austin Fire Department, the fire was contained to just the one



The "Core" committee meets weekly to plan Welch Hall improvements.

laboratory. However, adjacent labs suffered extensive smoke damage, and there were problems with loss of utilities and asbestos contamination on Levels 4 & 5 in the 1959 addition of Welch Hall. The loss in chemicals and equipment is estimated at \$400K—\$500K, but damage to the building and associated cleanup have increased the total costs of the fire damage to several million dollars. Furthermore, there was loss of irreplaceable archival material and research projects of the students and postdoctoral research associates who were impacted, and a 3—5 month displacement of faculty

and laboratory personnel.

Four days after the fire, University officials met with Fire Chief Robin Paulsgrove and others from the Austin Fire Department to discuss ways to improve safety conditions in Welch Hall and other laboratory buildings on campus. The university agreed to a number of procedural changes and physical modifications to the building as recommended by the AFD. Among the physical changes

being adopted are the installation of a sprinkler system, fire separation compartments, chemical dams under the false floor in the 1979 addition, improved alarm system, elevator upgrade, emergency power, a Knox box for keys, and improved access to the chemical research storage room.

Fortunately, the West Wing of the building is part of a planned renovation project that was scheduled to start this spring. As a result of the fire, we are moving up some of the pre-moves to ready the west wing for the renovation.

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## From the Chairman

### *New faculty hires and renovations of primary concern*



Marvin Hackert

Greetings to our friends and alumni of the Department of Chemistry and Biochemistry at UT - Austin. A major focus of time and energy for the department since last fall has been the safety issues related to the fire that occurred in Welch Hall. The department and the university have taken several steps to improve safety conditions in our laboratories. This includes safety training, a chemical management plan requiring chemical inventories and limits on the amounts of hazardous materials that can be stored in a lab. A number of physical changes are being implemented to improve safety in Welch Hall. Look for more detail in the cover story of this issue of *Chemical Compositions*.

Faculty recruitment and retention continue to be major concerns and priorities of the university and the department. By

now you will have heard that President Bob Berdahl is leaving UT-Austin for a similar post at UC-Berkeley and that Provost Mark Yudof has taken the position of President of the Univ. of Minnesota. Our faculty also are being offered prestigious positions at other institutions. We are pleased to announce two additions to our faculty for next fall. Dr. Alan Lambowitz (biochemist) has accepted the position as Director of the Institute for Cellular and Molecular Biology and will have a joint appointment with our department and microbiology. The new molecular biology building will be completed this summer and we look for our department to play a major role in its programs in structural biology,

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molecular recognition, and chemical biology. Also, Dr. David Vanden Bout (experimental physical chemist) will join our faculty as a new Assistant Professor next fall.

I am pleased to report that Drs. Dean Appling and Tom Kodadek were promoted to the level of Professor this year. Look for stories on these faculty in our fall

newsletter. Dr. William Shive, a member of our faculty since 1944, received a College of Natural Sciences Hall of Honor Award this spring. One of last year's awardees, Dr. David Medley, and his wife, Rosemary, share their thoughts on giving in this newsletter.

I thank all of you who have contributed your resources of time and money to us. Next fall's newsletter will carry a complete list of friends who have donated to the department during this academic year. It is a pleasure to recognize and acknowledge the vital role that such individuals play in helping us maintain our quality programs. Financial support from our alumni is a critical factor in helping us to meet our mission of excellence in both teaching and research.

Finally, I thank all of you who sent us comments or took advantage of our homepage on the WWW. We do appreciate hearing from you and want *Chemical Compositions* to be your resource for keeping up with what is happening in *your* department. I am especially grateful to those of you who have contributed to our departmental history project by sending us photographs or articles. Please continue to keep us informed of highlights in your activities so that we can share them via this newsletter. We wish you all a good summer and CONGRATULATIONS to our seniors and graduates!!

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# Drawing on the future

*Poster sessions a big hit during prospective graduate student weekends*

Early January each year marks the beginning of graduate student recruiting. The deadline this year for completing application for admission to our graduate school of chemistry and biochemistry was January 15th. The recruiting committee, consisting of representatives of the five chemical subdivisions (organic, inor-

gents that will accept our offers, but if the past is any indication, the academic credentials of students entering our program are steadily on the rise.

Once a student is accepted, he or she is invited to come visit the department. We run two recruiting weekends each year. Last year we changed the format of the visitation

Not only do the prospective students get an early feel for much of the chemistry that is occurring in our department, but most important, the posters serve to “break the ice.”



*Prof. Eric Anslyn*

The posters are centerpieces that get people talking, interacting, asking questions, as well as learning some new chemistry. Both the prospective students and current students seem to enjoy the sessions. The sessions are among the most talked-about facets of the recruiting weekend, and now that they have been a success for two years in a row, I am sure that they have become a permanent part of our recruiting strategy.



*Students take advantage of the new picnic tables in the Welch Hall courtyard during a graduate recruitment weekend.*

ganic, biochemical, analytical and physical) met soon after this deadline and started making offers. Our goal this year was to have a slightly smaller entering class than previous years, but with a further increase in student qualifications. In keeping with this goal, very few students not having either GRE scores above 1250 or GPAs above 3.5 were accepted. In fact, the average GRE and GPA of the students for whom we made offers this year are 1285 and 3.66, respectively. It is too early to know the statistics of the stu-

weekends to include a poster session during the Friday night reception. Due to the positive comments from the prospective students, this feature of the weekends was implemented again this year. In short, each research group is invited to present one or two posters at the hotel, where the prospective students are spending the night. This year there were about 30 posters total for each weekend. The sessions start in the early evening and typically last for three hours. The hotel provides munchies, as well as beer and wine.

## *Please note!*

*Reactivation of our newsletter has resulted in increased requests from alumni for addresses of other alumni. If you do not wish your address shared with other departmental alums, contact Joyce Thoresen, Dept. of Chemistry and Biochemistry, UT-Austin, Austin, TX 78712, (512) 471-5916, joyce@mail.utexas.edu*

## Only in Texas...this issue's contest

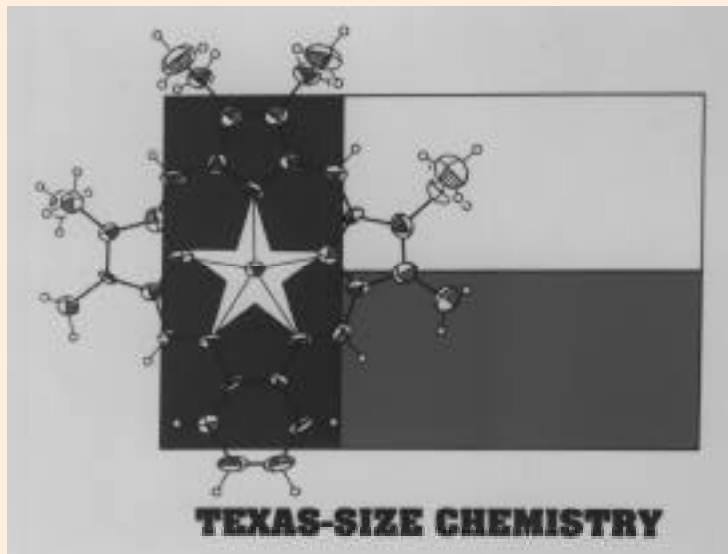


Prof. Jon Sessler

Minnesota has a state mushroom, Massachusetts a state dessert, Nebraska a state rock, Connecticut a state animal, South Carolina a state dance, and Arizona a state neckwear. And which state is likely to be the first to have a state molecule? We'll give the answer to the question, but we'll leave it to you to provide the names of the other "State" items, with the first person to provide a correct list of states for all five of the items named winning a prize.

Legislators that occupy the tall building just south of campus are presently debating the weighty issue of an official state molecule. Insofar

as we know, there are only two contenders for the title at this time. They are Buckminsterfullerene, known familiarly as Buckyball, and Texaphyrin, an analog of porphyrin. Buckyball, of course, was first characterized at a small private school in Houston by some chemists who shared the 1996 Nobel Prize in Chemistry for their efforts. Texaphyrin, on the other hand, is the local favorite for being declared the state molecule, as it is the creative invention of one of our own faculty members, Jon Sessler. One of the arguments favoring Jon's molecule is that it appears to have consider-



able potential for cancer therapies, with one form of it currently undergoing Phase II trials in human subjects for use as a sensitizer in

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*Texaphyrin ... is the local favorite for being declared the state molecule, as it is the creative invention of one of our own faculty members, Jon Sessler.*

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radiation therapy of metastatic brain tumors. These trials are sponsored by Pharmacyclics and more about them is available on the

Web at the following URL: <http://www.pcy.com>. Buckyball, on the other hand, presently appears to have its greatest use as a means for extracting grant money from the Federal government. Moreover, as shown in the illustration, Texaphyrin encircles the famous Texas five-pointed star much more elegantly than does Buckyball. Need we say more? For those

of you in Texas, write, call, or meet with your local legislator and urge a vote for Texaphyrin!

-- Jack Gilbert

## Honorable mention

### *Administrative Assistant to retire after 29 years of dedicated service*

The department experienced a major loss among its staff in April when its most senior Administrative Assistant, Janis Mather, retired after 29 years of devoted service. Janis started with The University of Texas at Austin in the Department of English in June of 1968. She transferred to our department in April, 1977, where she has served as an assistant to the Chairman for 20 years. She initiated *six* different chairmen into the mysteries of the office, including Bill Wade, Mike White, Bob Wyatt, Jack Gilbert, Alan Campion, and current chairman, Marv Hackert. In addition to acting as the Chairman's personal secretary, Janis was responsible for grade reporting, preparation of the course schedule, faculty teaching load, registration supervision and class rosters, seminar notices, travel authorizations, and a variety of miscellaneous tasks too numerous to mention.

Janis's departure leaves a huge gap in the departmental office. Her experience and knowledge of procedures and practices was unparalleled, and she definitely is a tough act for her successor to follow. Her former staff supervisor, Dotty Frasch, calls Janis "truly the most dependable employee I've ever known. She doesn't want to inconvenience anyone, and she always carries through."

Janis's

outward aura of "gruffness" is widely known, but so is her generosity and her heart of gold. "We've had clothing drives and food drives for many years at the holidays," says Pam Cook, a fifteen-year colleague, "and Janis is always one of the first to show up with a full grocery bag for the collection box."

**Kudos From Her Bosses** - Each of her academic "bosses" has



*Janis Mather poses with Chairmans (1 to r); Bill Wade, Mike White, Alan Campion, Bob Wyatt, Jack Gilbert, and Marv Hackert.*

his own memories of Janis's "supervision" of their activities during their terms as chairmen. For example, Mike White always looked forward to Janis's Friday afternoon popcorn and her gifts of Christmas breads baked in tin cans each holiday season. "She was wonderfully cranky," says White, "and she always took great care of me." Bob Wyatt remarks, "the one thing I'll miss about Janis is her popcorn on Fridays." Bill Wade says, "I'm still

willing to give you [Janis] a one way ticket to the place of your choice," and Alan Campion shares the following vignette: "My very first encounter with Janis revealed the essence

of her character. As a brand new assistant professor I walked up to the counter and asked for a course schedule. Janis told me politely, but firmly, that the only course schedules she had were for faculty and that students had to buy theirs from the Co-Op. She has called me 'kid' ever since." Jack Gilbert fondly remembers his efforts to wean Janis from her typewriter and bring her "kicking and screaming" into the computer age. It was no mean task, but Janis soon gave her computer a name, "Pansy," and now wouldn't give it up for anything except retirement. Marv Hackert adds that Janis is "a wonderful, kind-hearted person, one of the few people I know

who has the patience to deal with our faculty. She is sorely missed and difficult to replace. Maybe we should try to clone her."

Janis is not slowing down upon retirement. She plans to spend much of her time helping others, cooking and sewing for the needy, and doing office work for her church, helping elderly neighbors with errands, and spending time with her mother. She has stacks of books and magazines to read, jigsaw puzzles to work, and fabric to sew. She plans to play scrabble more often with Marie Smith, her long-time friend and former departmental secretary for the Undergraduate Advisor. Janis is famous for her low-fat cooking, and she has many new recipes to try (too bad we in the Chairman's Office are no longer the beneficiaries of those efforts!).



*Pam Cook and Dotty Frasch, long-time colleagues of Janis, note that this article barely scratches the surface in describing Janis' devotion to the department.*

## Chemists unite!

*Student affiliate exposing students to the "world beyond"*

The UT branch of the Student Affiliates of the American Chemical Society (ACS-SA) has been pretty busy the last two semesters. We have continued some of the traditions of the past, as well as re-focused some of our previous objectives into newer and more exciting directions.

To help aspiring chemistry majors, the ACS-SA still provides free tutoring twice a week. Upper-division students aid students in any lower-division chemistry class. This is in line with our intent to strengthen student-student interactions. In addition, we allow for students to strengthen student-faculty interaction in our weekly meetings. Although ACS-SA once tried to set up an undergraduate research program to assist applicants in finding a research position, it is felt that this resulted in a loss of initiative on the part of the applicant. To solve this, we invite faculty members to introduce their research to us, helping the students to make

more educated decisions about whom to work for and what responsibilities to expect, all in a fun and informal atmosphere.

It is our goal not only to expose chemistry students to the world within Welch Hall, but also to the world beyond. ACS-SA members become very aware of the efforts of the Undergraduate Advising Office and the Chemistry-Biochemistry Career Placement Office. Speakers from the chemical and biotechnology industries, law firms specializing in intellectual property issues, and the College of Pharmacy have spoken on other paths chemistry graduates can follow. We have featured meetings on how to get into graduate school and on the pursuit of careers in academia.

This year's ACS-SA has not forgotten about future chemists either. Chemistry circuses are performed about six times a year, and are geared toward children of all ages. By way of visually exciting

reactions, we hope to promote an interest in chemistry within the next generation.

All of our activities are funded through our lab notebook sales, and we appreciate the cooperation of the faculty in this program. As usual, extra proceeds go to scholarships for chemistry majors who are in need and/or are academically exemplary.



*Stephanie Johnson*

Now that the second semester of the academic year is almost over, we are proud to witness our goal being met: to unite chemists of all levels, all disciplines, and all walks of life -- past, present, and into the future.

### *Welch Hall Safety Enhancement Project Underway*

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The procedural changes are summarized in a comprehensive Chemical Management Plan for Welch Hall. The CMP details procedures for the safe storage and handling of chemicals, places limits on the quantities of hazardous chemicals that can be stored in the laboratories, requires the use of flammable storage cabinets for any laboratory storing more than 10 gallons of flammables, and requires the segregation of chemicals for storage by hazard class. Appendices of the CMP include chemical inventory summary sheets for all labs, a color-keyed floor plan indicating room usage throughout the building, a list of contact persons for each lab in case of an emergency, and floor plans that indicate all services available to emergency responders to Welch Hall. Another aspect of the plan addresses safety training and documentation. All lab personnel are required to have General Lab Safety Training, HazCom Training, Site-specific Training, and Hands-On Fire Extinguisher Training. In addition, at least one member from each lab is required to have Waste Management Training. The CMP we developed for Welch Hall is serving as the template for other such documents across the UT-Austin campus.

Labs throughout the building have undergone a thorough house-cleaning and the department is working with the University and AFD to continue to improve safety and chemical storage procedures for Welch Hall. I feel confident that these steps in conjunction with the West Wing renovation project will help make Welch Hall a safer place for us all to work and enjoy doing chemistry in the future.

## Beta Theta Chapter of AXE continues to prosper

Alpha Chi Sigma is a national coed professional chemistry and chemical engineering fraternity. Its membership comprises undergraduates, graduate students, faculty members, and professionals. The fraternity aims to foster brotherhood between those who intend to make the study of chemistry or a related field their life's work, to advance chemistry both as a science and as a profession, and to aid its members in achieving their professional goals.

**Chapter History**—The Beta Theta chapter of AX at UT-Austin was founded in 1952, but went inactive in 1985, several years after losing the lease on the chapter house. In 1991, the chapter was reactivated as a non-house chapter by 14 students, of whom Carla Harper, Steve Savoy, and Eric Schmidt are still active in the chapter. Since our reactivation, B has grown into a strong chapter of 30 active members. In recent years our chapter has received many honors, including the Three Star Chapter Award (1994-1995 school year), and the Alpha Chi Sigma Scholar award for 1996, which went to Eric Schmidt. Our most prestigious award was the Best Non-House Chapter award for our activities from 1994-1996.

**Professional Activities**—This year has been full of professional activities. The fall semester brought chemistry demonstrations (which are always tons of fun). The chapter participated in the Waller Creek Clean-up, and helped assemble picnic tables in the Welch courtyard. For National Chemistry

Week, we sponsored a student/faculty brunch which included a lecture entitled "The Science of Arson Investigation" by Jerry Wolf, AFD Arson Investigator. During the brunch we also took donations that would sponsor elementary school subscriptions to the ACS publication *WonderScience*. The chapter provided matching funds for all the money raised.

This spring, we have continued the tradition of judging science fairs in the area. In March brothers visited Ortega elementary school and in April we took part in the Austin Science Fair. Production is also underway on our second annual Beta Theta alumni newsletter. The first edition, produced last spring, was a great success, and enabled the chapter to come in contact with many alums. We even received copies of documents and photographs from the original chapter.

The chapter has also been working in a new professional activity area—helping with the chemistry department's prospective graduate student weekends. This may seem like an odd activity, but our chapter consists of almost fifty percent graduate students; who better to transport the prospectives, lead tours, and host parties. All our graduate brothers have thoroughly enjoyed this service to the department. We also prepared an information packet that was mailed to students who accepted the offer to come to UT. The packet includes information on housing, insurance, restaurants, etc. It will be revised

and sent to the new batch of graduate students this spring.

Throughout the year, as a fund-raising project, the chapter has sold discounted UT Chem locks to students enrolled in undergraduate laboratories. At the end of each semester we buy back unwanted locks, which are then sold at the beginning of the next semester.

Another great fundraising activity is ushering at the Erwin Center. Finally, the chapter came up with a new AX shirt. Selling shirts won't gain us much money, but it's nice to get AX's name out there.



Jessica M. Robinson

**Social Life**—Perhaps the most anticipated social event of each semester is the clash on the ice (better known as broomball) between our chapter and the Student Affiliate chapter of the American Chemical Society. Last fall we were also able to face Alpha Epsilon Delta in an additional broomball match. Regular social events include card nights every other week, lunches with the pledges, bowling, movie nights, and much more. This spring, we are planning on throwing a chapter picnic—with invitations going out to our faculty members. The picnic will include lots of food, fun, and the first ever "Family Olympics". Hopefully this will be a new Beta Theta tradition.

To find out more about our chapter, contact us via e-mail at: [axe@huckel.cm.utexas.edu](mailto:axe@huckel.cm.utexas.edu) or visit our web page at <http://www.cm.utexas.edu/ACS>.

# Reminiscences

*A trip down memory lane*



Dr. Robert (Bob) Perry

*Here we go on a trip down "Memory Lane." Bob Perry (Ph.D. 1952, Hatch) has provided the first of what we hope will be an on-going series of remembrances of the life and times of our alums during the period that they were in the department. We currently have a second such contribution, and it is scheduled for the next issue. It, too, has been written by an organic chemist, so it's time for those of you who majored in other areas to put pen to paper and share your memories. We look forward to hearing from you!*

*--Jack Gilbert*

## **Hackerman and Chem. 801**

Norman Hackerman is truly one of the greats of science at UT, and whose career speaks for itself. I count myself fortunate to have worked for him, not as a graduate student, but as a teaching fellow in Chem. 801. Dr. Hackerman was/is a man whose directness, rugged features and knowledge of what he was doing evoked great respect from us lowly lab/quiz section instructors.

Every Saturday at 8:00 a.m. we attended a Chem. 801 meeting, during which time Hackerman led everyone, other 801 professors included, through a review of the lab and quiz section exercises for the week following (*we'd never get graduate students, much less faculty members, up that early on a Saturday in this day and age*). Dr. Watt, who had just relinquished the 801 course supervision and co-authored the text used in 801 (Felsing and Watt, *General Chemistry*), was present and added an aura of no nonsense to those meetings.

One of the rules at that time was that TAs were not to fraternize with students (*the rule still stands*). That was a tough rule to adhere to considering that many of our classes had good-looking females in them. However, we all lived an ascetic life

for fear of being kicked out. I had the good fortune one semester of having an all-girl lab. Needless to say, it was different. There was always some weird situation to handle, such as the time one girl somehow accidentally got acetic acid sprayed all over her face.

One of the most serious tasks that we TAs had to perform, which was discussed in those meetings, was proctoring examinations. UT had very clear, punitive policies on cheating in those days (*and still does*). It was mandated that TAs walk up and down the aisles of the lecture halls during exams, monitor the students like a hawk and immediately direct any transgressors to report to the supervising professor in attendance. The episodes of turning in students caught cheating were unpleasant and linger in memory. One can only imagine the legal ramifications of doing that job in today's litigious climate (*and that's right—we have to dot all the "i's" and cross all the "t's" when accusing a student of cheating!*)

On the lighter side, some of us grad students took time to play tennis, and Warren Meinschein (*deceased; see "In Memoriam" in this issue*) and I had the gall to challenge Norm Hackerman, an avid player himself, and John Dice, a junior professor and younger than Hackerman, to doubles matches. As I recall, Hackerman and Dice jovially

disparaged us, as we "youngsters" could expect to be thrashed handily by our superiors in the game. When we got on the court, we were amazed that Hackerman was so agile and such a good player at his "mature" age, i.e., mid-forties. Meinschein and I showed no deference to them, but neither did the "old guys" to us, and, as I recall, we were pretty evenly matched (*Norm still plays a vicious game of squash several times each week*).

## **Hatch**

Lewis F. Hatch was the wit in the department and was widely known around the UT campus for his humorous approach to teaching Chem. 601, the terminal course for non-chemistry majors. He nonetheless was a serious scientist, a prolific writer and a bright, articulate teacher. He was well-grounded in modern physical-organic chemistry, and his teaching and research reflected this fact. During one of the Organic seminars, one of Hatch's students was discussing his research, which included studies of relative rates of reaction of different *cis* and *trans* isomers of various substituted allylic chlorides. Mechanisms were proposed, including a discussion of electronic configurations and fundamental molecular processes to explain the rate phenomena. Henze, not a believer in such nonsense ("I

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have never seen an electron ...etc.”) started casting aspersions at the work and the theories. This precipitated a vigorous exchange between Hatch and Henze, as the students watched with *cautious* interest. After the seminar was over, Henze would not let go, and he and Hatch continued the “warm” discussion while they walked down the hall. Somehow, the fact came out that the research project was supported by an Air Force grant, and Henze then immediately took exception to having that kind of research supported by the government. As Hatch calmly explained to him, the work was fundamental in nature. Henze then said loudly enough for all to hear up and down the hall, “By God I’m a taxpayer!!” Hatch didn’t miss a beat: “Thank you for your contribution to our fundamental research!!,” as he strode away, leaving Henze fuming.

#### ***Inducing labor***

My lab was behind Hatch’s office, which was located at the southwest end of the old section of the Welch building. His secretary at the time worked in the small anteroom just outside Hatch’s office. She was a mature, serious woman, who was 10 months pregnant and very worried that she had not yet delivered. I was running a LiAlH<sub>4</sub> reaction on an allylic chloride, a novel reaction, in which the allylic chlorine was being displaced directly by hydride. The reaction was carried out in diethyl ether, and the product, a lower-boiling liquid, was being distilled, as it was formed, in a distillation column with chilled condenser. I was watching the distillation carefully, and after awhile I noticed that for no apparent reason the column started flooding, a sign of excessive heat in the stillpot. I stepped aside and turned off the pot heater and had no sooner done so than a gigantic explosion occurred that rocked the entire west wing and was accompa-

nied by copious amounts of smoke and organic vapors. I normally would exit through Hatch’s office but had to climb over the lab bench and exit through the back door through what was then Phil Bailey’s office. Hatch, in his office, opened the lab door, was greeted by all the smoke and vapors and yelled out, “Perry! Where are you?!” Not seeing me, he was worried and hurried out past the secretary, onto whose head a few flakes of ceiling and dust had fallen. She began crying, not knowing of my exit elsewhere and thinking that I had been

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*Hatch didn’t miss a beat: “Thank you for your contribution to our fundamental research!!,” as he strode away, leaving Henze fuming.*

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killed. A few minutes later, the experience caused her to go into labor, and she was rushed to the hospital, where she delivered a normal, healthy baby. Fortunately, we all survived the episode without injury (*I wonder how much paperwork regarding this incident had to be completed to satisfy the authorities; much less than would be required today, I’m sure*).

#### ***Organic Seminar***

During one of the Organic seminars, always austere and serious, as indeed they should be, all of the Organic professors and students were listening to a graduate student’s talk. Hatch’s group sat together near the back on that occasion (*the tradition of graduate students sitting at the back of the seminar room lives on*). Someone, I don’t know who, surreptitiously passed a newspaper clipping around the back while the speaker droned on. The clipping was an ad for shirts. At the end of the ad, in large letters, was the line, “No one should be without a shirt like

this in his wardrobe,” except that there was a typo, and “r” was missing in “shirt.” Several of us broke out laughing in the middle of the talk, to the shock of the professors and the speaker. Of course, we could not divulge the reason for our laughter, and the episode did not endear us to some of the senior profs.

#### ***Watt***

George Watt was an impressive person, distinct both in appearance and as a scientist/professor. In the years that I knew him, these features never aged or changed; bespectacled, he always wore his thin, well-greased hair in exactly the same fashion, i.e., plastered down close to his scalp.

His confident demeanor added to the aura of one not to be taken lightly. His graduate course in Inorganic Chemistry, Chem 276, was a make or break for graduate students. His lectures were precisely delivered at a very rapid pace, and one either took notes with the speed of light or did not survive in his course. There was no such thing as sitting back, listening, or casually jotting down notes. The material was taken from a variety of sources, and the information had to be written down almost verbatim. Prepared lecture notes or outlines for students were not in vogue at UT in those days, and tape recorders, which were not yet available, would probably not have been allowed. Because of Chem 276, my handwriting was permanently damaged, but success in the course somehow made it all seem worthwhile.

#### ***Lochte***

Harry Lochte was “old school,” who taught and practiced hard work, self-sacrifice and classical chemistry. He had peculiar facial mannerisms such as squinting and winking and spoke with traces of an accent developed from his Texas

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Germanic background. Dr. Lochte thought that all graduate students should use rubber stoppers or corks instead of ground-glass joints in flasks and that hole boring, even throughout one's career, was good training. "De trouble with students today is dat dey don't want to do any work," he told me while squinting and winking as he was trying to get me to sign up with him as my research advisor (*Lochte's words echo through our halls to this day*). He was dead-serious, but it was very hard for me to keep a straight face.

### **Henze**

Henry Rudolph Henze (HRH, sometimes referred to by graduate students as His Royal Highness) was a knowledgeable, classical organic chemistry professor, whose research problems and teaching methods strictly reflected this style and background. He was an egotistical person, to say the least. He was somewhat short in stature, extremely erect in bearing, and this together with his booming voice and manner of speaking were testimonies to his high regard for his presumably Prussian ancestry. He delighted in intimidating those who were in weaker positions than he, such as undergraduate students, other professors' graduate students and even junior professors. In spite of Dr. Henze's self-styled aura of perfection

and pride in his precision in speech, he often asked convoluted or ambiguous questions and had an antipathy toward modern electronic concepts and physical organic chemistry.

One of Henze's students was giving the required seminar before a group of his peers, a critical bunch, to say the least. During that presentation, the student proposed a superficial mechanism for some new reaction that had recently been reported in the literature. The mechanism was immediately suspect, and another grad student spoke up and told the speaker, "But it is well known that that reaction is not favored thermodynamically and does not occur, so your mechanism is not correct." Henze, seeing that *his* student was under attack, started attacking the questioner (another professor's student). Henze said, "Well suppose that reaction does occur, what would you expect to get?" The questioning student, looking somewhat incredulous, said calmly, "But that reaction does not occur." Henze pressed harder, "But supposing it did, then what?" The student, standing his ground replied, "But it doesn't." Henze started off on a tangent, but soon realized that he was defending an indefensible position, so the matter was soon dropped. The seminar continued, somewhat to the dismay of other graduate students.

I remember the time that I was

meeting with Dr. Henze during the process of selecting a research advisor. I had already learned from other grad students what to expect. One thing that Henze always regarded in himself was that he was one of the world's greatest experts in Grignard chemistry, and perhaps he was. Thus, when we were asked what the most important reaction in organic chemistry was, we knew to say the Grignard reaction, which I did when the inevitable question arose. It was a friendly session, and as he questioned me, I did the recommended thing and waited a moment to answer, as Henze would often enjoy answering his own questions. Knowing Henze's reputation for skewering people for not being precise in speech and answers, when Henze asked me out of the blue how alcohol was made in this country, I unfortunately responded too quickly and asked him which alcohol did he mean? Ethyl alcohol, or alcohols generally? He blew up and loudly stated "Alcohol! Ethyl alcohol, of course! I speak correctly. When I say alcohol, I mean alcohol." So much for precise speech!

## *Giving back to the department*

*Editor's Note: H. David Medley, (Ph.D. 1952, Henze) is among a number of long-time financial contributors to our department. I asked Dave to provide a brief statement as to why he and his wife, Rosemary, have made such a commitment to us. Here's what he had to say.*

*Rosemary and I love The University of Texas at Austin. Our blood runs burnt orange. We spent nearly four rewarding years at The University as I pursued a graduate degree in Organic Chemistry under Professor H. R. Henze. The Department of Chemistry and Biochemistry furnished me my "Union Card" to enter the industrial world of chemistry. Although I started in the research department of the former Celanese Corporation, I spent much of my professional career in marketing and general administration, attaining the level of president in the Celanese International Marketing Company. The Department of Chem-*  
*continued on page 11*



*Rosemary and David Medley*

## 1996 - 1997 Chemistry and Biochemistry Degree Candidates

**Summer 1996 Degree Candidates****Bachelor of Arts in Biochemistry**

Ajit Dwivedi  
Annemarie Brown  
Ti-Lun Josephine Chan  
Melony Shannan O'Neill  
Christine Robin Wozniak

**Bachelor of Science in Biochemistry**

Adam Haberman  
Daniel Hirschhorn  
Ashley Elaine Coffman  
Kimberly Ann Spytak

**Bachelor of Arts in Chemistry**

Shannon Lynn Shaddock  
Bryan Dwayne Snoddy  
Aaron Wai-Ho Woo

**Bachelor of Science in Chemistry**

Robert John Sutherland  
Hean Chin Wong  
Leslie Marie Martinez  
Danielle Marie Nesvacil  
Shenethia Delois Taylor

**Fall 1996 Degree Candidates****Bachelor of Arts in Biochemistry**

Dong-Soon Choi  
Shaher Khan  
Marcel Nader Moayer  
Eugene Nee  
Pradipkumar Patel  
Johnnie Randolph Jr.  
Anita Jar-Yu Chin  
Maria Victoria Conti  
Linda Ellen Marenus

**Bachelor of Science in Biochemistry**

John Armstrong  
Christopher Binfield  
Jason Joseph Bosco  
Daniel Madison Byrd  
Michael Li-Hsin Huang  
Michelle Haas  
Roshani Gajendra Patel

**Bachelor of Arts in Chemistry**

Joanne Lee Hinojosa

**Bachelor Science in Chemistry**

Douglas Phillip Hanson  
John Paul Lapierre  
Carlos Benito Lau  
Alexander Mueller  
Peter Anthony Opiela  
Stephanie Tamiko Endo  
Mary Katherine Monahan  
Leslie Kay Sullivan  
Tiffany Renee Turner

**Spring 1997 Degree Candidates****Bachelor of Arts in Biochemistry**

Bradford Barker  
Kelly Bennett  
Jason Morris Boley  
John Cuddeback  
Aaron Edward Felix  
Vimal Thomas George  
Chang Yun Han  
Brandon E. Harper  
John Patrick Haschke  
James Havemann  
Linda Karen Hoang  
John Che-Han Hsu  
Diana Dawn Koval  
Tina Chowping Kwan  
Deana Larkin  
Thomas James Lopez  
Karen Y. Ni  
Yinka Adenike Olowolafe  
Shephali Patel  
Kanthi Shenoy

Victor Lee Sherman  
Samuel J. Velez  
Henri Arthur Woods

**Bachelor of Science in Biochemistry**

Christopher Bennett  
Anu Bhalla  
Nathan Scott Bryan  
Zhui Chen  
Vineet Choudhry  
Grace Si Yan Choy  
Christina Farmer  
Raymond Hawkins  
Michael Hung  
YingHorn Liu  
Christina Ann Morton  
Ajith P. Nair  
Lorraine Pelosof  
Bradden Rex Pyron  
Jackson Su  
Miki Susanto  
Dat Ty Tran  
Eugenia Tsuei  
Mara Vorachek

**Bachelor of Science in Chemistry**

Cynthia Anna Bazaldua  
Kathryn Belles  
Arturo Dela Garza Jr.  
Amy Lynn Gruetzmacher  
Dinh Thuy Le  
Thomasina Munoz  
Felipe Fausto Ochoa  
Eduardo Ramirez  
Jeffrey Stringer  
Lorraine Sutton  
Howard Vogel  
Sandra Renee Whaley  
Brandon Williams

**Bachelor of Arts in Chemistry**

Lopamudra Banerjee  
Pui Yee Hung  
Jeffrey Karl Leitko  
Yue Ma  
Karl George Pankratz  
Adriana Vasquez

*Giving back to the department*  
continued from page 10

istry and Biochemistry provided me with the fundamentals to be successful in the business world. Words do not exist to express my sincere appreciation to the Department for the total knowledge base that was afforded me.

We do not feel that we could ever totally repay The University for what it provided us. We do believe that a yearly contribution to the Chairman's discretionary fund is a small way to show our thanks and appreciation. Many people probably do not know that the Legislature now only furnishes about 25 percent of the funds required to operate The University. I encourage all of you alumni to seriously consider a monetary support of the Department of Chemistry and Biochemistry as partial repayment for the many advantages it has afforded us.

-- H. David Medley

**ALUM RETORTS****1934**

**E. O. Box, Jr.**, B.A. Chemistry, M.S. (Chemical Engineering) Oklahoma State ~ retired as Sr. Research Chemist, Phillips Petroleum, in 1980. Holds 42 US and foreign patents in refining processes. Served 5 years in U.S. Navy during WWII and remained in active reserve, retired as Captain after 30 years.

**1950**

**Leland L. Smith**, Ph.D. (Henze) ~ Professor Emeritus of Biochemistry, University of Texas Medical Branch, Galveston, retired August 1996 after 32 years of service and moved back to Austin.

**1955**

**Herbert D. Weiss**, Ph.D. (Hatch) ~ retired from CEO position, moved to Houston and is involved in graduate internship program at Rice University, Natural Science Department.

**1958**

**Leon "Lee" Rand**, M.A. 1956, Ph.D. (Gardner) ~ is Chancellor Emeritus, Indiana University Southeast, and works as Special Assistant to the Chancellor, Indiana University/Purdue University Indianapolis.

**1962**

**Claiborn L. "Dick" Osborn**, Ph.D. (Gardner), B.A. (Chemistry) 1955 ~ reports his new life as an artisan goes well. He and his wife have been invited to exhibit at the Southern Legislators Conference this summer.

**1965**

**Henry Drew "Nick" DeBerry, III**, B.A. Chemistry, LLB 1968 ~ reports although "I slipped my traces and became a lawyer," he remains a science groupie. He has practiced law for 24 years and is a partner in the firm of Baker & Botts, L.L.P. in Dallas.

**Billy D. Head**, B.S. Chemistry ~ retired December 31, 1996, after working 32 years at The Dow Chemical Company in Freeport, TX. His last two assignments were as Laboratory Director of Dow's North American Polyethylene Research Department and as Global Technical Director of Licensing for Polyethylene Technology. During his time as Laboratory Director, Dow developed the revolutionary single site organometallic catalysts for the production of Insite\* Technology polyethylene.

**1970**

**Michael J. Collins**, Ph.D. (Boggs) ~ works for CEM Corporation in North Carolina.

**Douglas S. Dierdorf**, B.S. Chemistry, Ph.D. University of Washington, Seattle ~ is Director of Research and Development at Pacific Scientific, HTL-KinTech Division. Research interest centers on the replacement of Halon 1301 in aircraft and military vehicle fire extinguishing systems.

**James M. Watson**, Ph.D. (Roberts), B.S. Chemistry (1965) ~ reports he is still in the carbon black business as Sr. V.P. of Technology at Columbian Chemicals.

**1971**

**Lydia Ann Melcher Frenzel**, Ph.D. (Lagowski), B.S. Chemistry (1966) ~ received the Steel Structures Painting Council 1996 Technical Achievement Award. In the past, she has held positions in education, research, and corporate business. Her contributions include working with emerging technologies, pioneering the discipline of surface preparation using waterjetting, and bringing several viewpoints together to develop a common language for describing problems.

**1975**

**William Shelton Clark**, Ph.D. (Hackerman) ~ is working at the Finnigan Corporation in Austin.

**Tatao Luo**, Ph.D., M.A. (Gilbert) ~ is General Manager, International Business Development, Chevron Chemical Company, since March 1996.

**1976**

**James E. Hardy**, Ph.D. (Gardiner) ~ working at Westinghouse Electric Company in Pennsylvania.

**1979**

**Louis W. Elrod**, Ph.D. (Roberts) ~ expresses the sentiment that Royston Roberts was an excellent mentor and teacher, "a man that I respected and admired."

**1981**

**Kay Colapret**, M.A. (Fox) ~ was promoted to Senior Project Chemist at Texaco.

**1983**

**Mark Thomas Bauer**, B.A. Chemistry ~ reports he is working for Mentor Polymer Technologies, a silicone rubber manufacturer in Dallas.

**William "Pat" Follett**, B.S. Chemistry ~ is QA/QC Lab Supervisor at Occidental Chemical Corporation in Deer Park, TX. He has held this position since 1993 at the Occidental plant which manufactures chlorine and sodium hydroxide.

**1985**

**C. Ian Pearce**, B.S. Chemistry ~ is teaching Marine Science and Biology at Stephen F. Austin High School, Austin, as well as working as a consultant with SACHEM. He is married with two daughters.

**ALUM RETORTS****1987**

**Mitchell J. Wilson**, B.A. Biochemistry; M.D. University of Texas Medical Branch, Galveston, 1993 ~ received Chauncey and Elizabeth Leake Essay Award in the Humanities and Medicine, 1990; achieved Assistant Professor of Internal Medicine, 1996, UTMB Galveston; has full-time clinical practice at the UTMB Urgent Care Extended Hours Clinic.

**1988**

**Alexander Bowman Boffa**, B.S. Chemistry, Ph.D. (Chemistry) University of California, Berkeley, 1994 ~ is working as a research chemist for Exxon PARAMINS in the Formulations Science Division. Married to Lisa Saunders Boffa (see 1991).

**1990**

**James D. Batteas**, B.S. Chemistry, Ph.D. Chemistry, University of California, Berkeley ~ currently an Assistant Professor of Chemistry at The City University of New York where his research concerns the surface chemistry and tribology of polymer and biopolymer materials using atomic force microscopy.

**1991**

**Lisa Saunders Boffa**, B.S. Chemistry, Ph.D. (Chemistry) University of California, Berkeley, 1996 ~ graduated with a Ph.D. in synthetic polymer chemistry. She reports the first three years were as an NSF Predoctoral Fellow, and the last two years were spent with Prof. Bruce Novak in the Polymer Science and Engineering Department at the University of Massachusetts at Amherst. She is beginning work in an organometallics R&D group at Air Products. Married to Alex Boffa (see 1988).

**1993**

**Kyoung-Hee Oh**, Ph.D. (Wade) ~ is working for the National Institute of Environmental Research in Korea and reports she misses life in Austin.

**Harry Chang-Chieh Wang**, B.A. Biochemistry ~ is a doctoral candidate in chemistry at the University of Houston, University Park. Received a Welch Fellowship Award and R. B. Seymour Outstanding Teaching Assistant Award (1995-96).

**1994**

**Melissa Jeanine Hubbard**, B.S. Chemistry ~ is a second-year medical student at the University of Texas Medical Branch, pioneering an innovative problem-based learning approach to medicine. She states, "I'd just like to thank the University for the excellent training I received. Thanks to all the instructors who helped to pave my future."

**Claire L. Maspero Palitza**, B.S. Chemistry, B.A. Geography (1991) ~ is working at the Office of Environmental Health and Safety, UT-Austin, and is responsible for managing the disposal of all the chemical waste that the university generates.

**R. Jason Scharff**, B.S. Chemistry ~ is currently a Ph.D. student at the Pittsburgh working in the laboratory of Prof. John T. Yates, Jr.

**Richard E. Thomas**, M.A. (Iverson) ~ was selected for promotion to rank of Lieutenant Commander, U.S. Navy.

**1995**

**Michelle McElroy McCalmont**, M.A. (Kitto) ~ reports she is taking time off from her work in R&D in biochemistry to spend with her new baby girl.

**Mark R. Tesauero**, Ph.D. (Campion) ~ accepted a promotion with SGS-Thompson Microelectronics, Advanced Technology Development Group.

**1996**

**Elaine S. Brigham**, Ph.D. (Mallouk/McDevitt) ~ is working as a Senior Chemist in the Solvents and Intermediates Department at Union Carbide.

**IN MEMORIAM**

**Paul Harris**, Ph.D. (Jones) 1991, died of cancer February 14, 1997. He is survived by his wife, Marie Mahoney, and daughter, Nora.

**Oneita Christopher Medley**, M.A. Chemistry 1921, is deceased, date unknown.

**Warren G. Meinschein**, Ph.D. (Lochte) 1951, died February 7, 1997, at the age of 76. Dr. Meinschein is survived by his wife, Mary Elizabeth Williams Meinschein; daughter, Sherra E. Kerns; sons, Warren G. Meinschein, Jr. and Tim A. Meinschein; six grandchildren; and two great-grandchildren.

**Eva Sabrina Simmons**, M.A. 1992, Ph.D. (Wyatt) 1995, died in October 1996.

**Frank J. Spuhler**, M.S. Engineering 1935, Ph.D. Chemistry 1938, died March 2, 1997 at the age of 83, according to the *Austin American-Statesman*. He is survived by a son, Michael W. Spuhler.

**Carl Darwin Wallrath**, B.S. Chemistry 1958, died January 6, 1997, according to the *Houston Chronicle*. He is survived by his wife, Nancy Walker Wallrath.

# Ziegler retires

## Honored at ISSX symposium

Professor Dan Ziegler will retire from teaching at UT-Austin at the end of this academic year. Daniel M. Ziegler was born on a farm in Quinter, Kansas, on July 6, 1927. He attended St. Benedict's College in Atchison, Kansas, receiving his B.S. degree in Chemistry in 1949. Upon graduation he obtained a Master's degree in Biochemistry from the Institute of St. Thomas in Cincinnati.

Dan entered Loyola University in Chicago in 1952 where he worked with Dr. Jacklyn Melchior on the *in vitro* synthesis of protein hormones by sub-cellular fractions of pituitary tissue, receiving his Ph.D. in Chemistry (Biochemistry) in 1955. From 1955-57 he was a postdoctoral trainee of the National Heart Institute at the Institute for Enzyme Research at the University of Wisconsin at Madison, where he was appointed Assistant Professor from 1958-1961.

Dan Ziegler has had a long and distinguished career since arriving at the University of Texas at Austin in 1961. He was promoted to Associate Professor in 1962, Professor in 1969, and named the Roger J. Williams Centennial Professor of Biochemistry in 1990. He was an Established Investigator of the American Heart Association from 1960-65, held a USPHS Career Development Award from 1965-75, and was a Humboldt Senior Research Awardee in 1991 and 1995. He is widely recognized for his contributions to the metabolism and biotransformation of xenobiotics. In 1990, Dr. Ziegler won the Bernard B. Brodie Award in Drug Metabolism

from the American Society for Pharmacology and Experimental Therapeutics for his discovery and outstanding fundamental research on the flavin-containing monooxygenases (FMO). In the fall of the same year, the meeting and published proceedings of the Fifth International Symposium on the *N*-Oxidation of Drugs held in Munich were dedicated to Dan for his many contributions to that

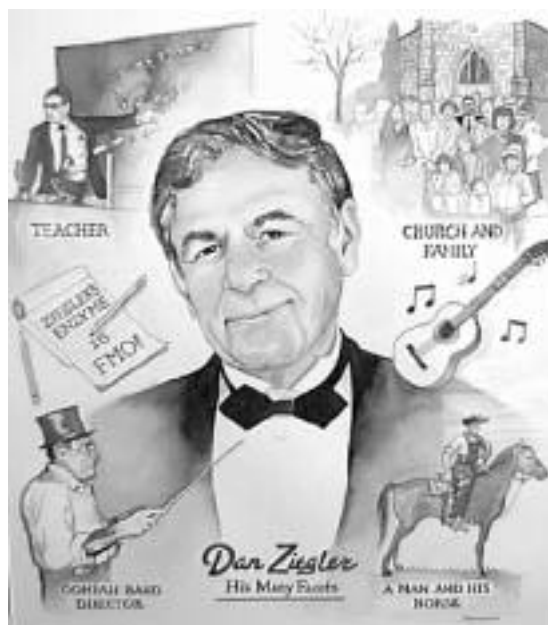
Ziegler was only the fifth recipient of this award in the history of the Society.

Dr. Ziegler has published over 100 research articles and served on numerous editorial and advisory boards. In addition to his teaching and research record, Professor Ziegler has served as biochemistry division coordinator, Associate Director of the Biochemical Institute, undergraduate adviser, and on several other committees for the Department of Chemistry and Biochemistry. Dan has always been an excellent faculty colleague, quiet and modest about his own accomplishments, an excellent researcher and helpful in every way (teaching, experimental collaboration, service to the department and the community).

Dan married Mary Alice in August of 1952. They have four children and five grandchildren. Although retiring from teaching, Dan plans to remain active in research, spending more time writing and traveling. He also is looking

forward to having more time for his grandchildren, gardening, choir, and various charity and service organizations.

-- Marv Hackert



field. In October of 1996, a Symposium preceding the International Society for the Study of Xenobiotics (ISSX) at San Diego was held to honor Dr. Ziegler's career contributions to a field his work essentially established. Following the Symposium Dan was presented with a collage portrait (by Peruchini, see above) commissioned by organizers of the Symposium. Later in the week, the ISSX presented Dan with the highest honor the Society can confer on one of its members — Honorary Life Membership. Dr.

*In honor of Professor Ziegler's many years of contributions to the department, an endowment is being established in his honor. Those wishing to contribute to this endowment can send their contributions to the Department of Chemistry and Biochemistry, referencing the "Ziegler Endowment."*

## Worthy recognition

We have had the pleasure of awarding a variety of fellowships and awards over the past academic year. The awards cover two important areas of student accomplishments: excellence in teaching and excellence in research and academic achievements. With the growing emphasis on improving the quality of undergraduate education, we are especially delighted to recognize our top teaching assistants in the department for their superior performance in the classroom, through awards that include the Henze Awards, the Welch Teaching Awards, and the Faraday Award.

The students who earn such honors have proven outstanding in teaching, an area that is often overlooked because of the tremendous emphasis on scientific achievement in the graduate program. However, many undergraduates have indicated that some of their most memorable experiences occurred in their laboratory classes, and we should give full credit to the tireless and enthusiastic teaching assistants who make the educational journey through a large university a little more personal.

Other awards emphasize academic performance and research accomplishments in the graduate program. Many of the students who earn these awards will venture on to become top scientists in industry or successful faculty at colleges and universities, and we hope to provide a little recognition during the early stages of their graduate years. One of the most satisfying roles of the Graduate Office is the selection of graduate students for awards, and it is always uplifting to survey the number of outstanding applicants for each one.

We also wish to introduce Penny Kile; Penny joined the Graduate Office staff in the summer of 1996 and has proven to be an energetic new addition. Penny and Barbara McKnight form an unbeatable team.



*Prof. Jennifer Brodbelt  
Graduate Advisor*

### 1996-97 Graduate Awards and Fellowships

**Faraday Teaching Excellence Award**

Elizabeth Stevenson (Laude)

**Hoechst Celanese Academic Excellence Award**

Paul Hergenrother (Martin)  
Patanjali Kambhampati (Campion)

**Welch Award for Academic Excellence**

Kai Hu (Bard)  
Jason Ritchie (McDevitt)

**Henze Teaching Excellence Award**

Greg Blakney (Laude)  
Angie Loving (Bauld)  
Jackie Naffin (Kodadek)

**Welch Teaching Excellence Award**

Mary Satterfield (Lagowski)  
Kristen Smith (White)  
Cyndi Wells (McDevitt)

**Welch Departmental Service Award**

Nick Tran (Lagowski)

**Charles Morton Share Trust**

Andrea Wells (McDevitt)

**Texaco Fellowship**

David Medeiros (Willson)  
Jeff Fieberg (White)

**Exxon Education Fund**

Theodore Curey  
James Davidson

**Leon O. Morgan Fellowship**

Rosario Fico

**Royston M. Roberts Fellowship**

Alice Lambert

**Stanley H. and Kathleen F. Simonsen Fellowship**

Michael Gostkowski

**Welch Fellowships**

James Davidson  
Michael Gostkowski  
Maksim Khrapov  
Alice Lambert  
Courtney Lopreore  
Megan Merlock  
Michelle Reyzer  
Jeremy Thompson  
Kim Fay Wong

**Joanne M. Ravel Endowed Fellowship**

Alexander Taylor (Hackert)

**Eakin Centennial Fellowship**

Anne Tibbetts  
Thomas Hollis

**University Continuing Fellowship**

Anne Tibbetts  
Paul Hergenrother  
Patanjali Kambhampati

**University Doctoral Dissertation Award**

Edward Marcotte

**University Continuing Bruton Fellowship**

Kai Hu

**University Continuing Tuition and Fees Fellowship**

Jason Ritchie

**Travel scholarships provided by:**

**J. E. Mahler Endowment Fund  
Clay B. Fredrich-Rohm & Haas  
Endowment for Seminar Speakers  
Graduate Student Travel**

## *Professor Shive inducted into Hall of Honor*

William Shive, Professor Emeritus, was inducted into the Hall of Honor of the College of Natural Sciences this spring in recognition of his many contributions to UT-Austin. Bill entered graduate school at UT-Austin in 1937 after receiving a B.A. degree from East Texas State College. Because his alma mater is now part of the A&M system he represents an Aggie in our midst! He received an M.A. degree in Chemistry in 1939 and a Ph.D. degree in 1941, majoring in organic chemistry under the direction of Prof. H. L. Lochte. With his degree in hand, Bill married Gwyn White and immediately transported his new Texas bride to Urbana, Illinois, where he was a Research Associate and Instructor in organic chemistry at the University of Illinois at Urbana for a year. He and Gwyn then headed back south when Bill became an Assistant Professor of Chemistry at Tulane University for two years. But the Shive's roots in Texas were deep, so they returned to Austin in 1944, with Bill becoming a Research Scientist in the Biochemical Institute. The next year he was also appointed Assistant Professor of Chemistry and was promoted to the rank of Professor in 1950. He served as Chair of the Department from 1961 to 1970 and was named the first Roger J. Williams Centennial Professor in Biochemistry in 1985. Although Bill relinquished his teaching duties in 1987, he still maintains a significant research program after 53 years at UT-Austin.

Bill enjoys a national and

international reputation for his contributions to our understanding of intermediary metabolism and nutrition. In 1950 he received the American Chemical Society's Eli Lilly Award in Biological Chemistry. He was a member of the Nutrition Study Section, National Institutes of Health, 1969-73, and its Chairman in 1972-73. He served on President Gerald Ford's Biomedical Research Panel and was Chairman of its Interdisciplinary Cluster on Nutrition, 1975-76. He was Liaison Officer for the U.T. System



*Dean Rankin presents Hall of Honor award to William Shive.*

to the Robert A. Welch Foundation from 1970-1986. In 1983 he was presented the first Roger J. Williams Award in Preventive Nutrition for his "scientific contributions to our understanding of intermediary metabolism, particularly the metabolic roles of vitamins, and the development of a method for the assessment of nutritional status of individuals."

Bill Shive is highly regarded as a teacher and research

mentor. One of his former graduate students commented that "Dr. Shive was an excellent research mentor, a man who is patient, yet demanding of personal excellence." A faculty member who was formerly a graduate student in biochemistry commented that Bill Shive "brought very high standards both to the classroom and to the research laboratory. He was always supportive of students, and guided many to successful professional careers. He conveyed to students the importance of combining creativity with a sound command of information and experimental observation."

As if these contributions to the teaching, research, and service responsibilities of an academician were not enough, Bill and Gwyn and the Shive Foundation have made generous monetary commitments to UT-Austin, enabling the establishment of the Roger J. Williams Centennial Professorship in Biochemistry, the William Shive Centennial Professorship in Biochemistry, and the Clayton Foundation Biochemical Institute Regents Lectureship, among others. They have also "contributed" their two daughters, Kathy and Karen, to a continuation of the family tradition of excellence in academic science, as both of them are eminent biochemists in their own right.

Bill Shive joins several others with connections to our department who have been inducted previously into the Hall of Honor. They are Norman Hackerman, Virgil Waggoner, Don Carlton, David Medley and Lorraine (Casey) Stengl.

-- Lester Reed

## Departmental Seminar Program

*Our teaching and research program benefited this year from scientific presentations by individuals whose research interests cover a broad spectrum. The speakers have come from a wide varieties of "homes," including academia, industry, and research institutes. Although the list that follows categorizes the speakers on the basis of the traditional divisions within the department, a significant number of them discussed topics that bridge the usual divisional boundaries, a fact that reflects our continuing efforts to foster interdisciplinary interactions among our faculty, postdoctoral fellows, and students.*

### Analytical/Physical

**Prof. Dave Allara**  
Pennsylvania State University

**Prof. Allen Bard**  
The University of Texas at Austin

**Dr. Gary Van Berkel**  
Oak Ridge National Laboratory

**Prof. Jennifer Brodbelt**  
The University of Texas at Austin

**Prof. Manfred Fink**  
The University of Texas at Austin

**Prof. Ingrid Fritsch**  
University of Arkansas

**Prof. Martin Gruebele**  
University of Illinois at Urbana-Champaign

**Prof. Adam Heller**  
The University of Texas at Austin

**Prof. James Holcombe**  
The University of Texas at Austin

**Dr. Barbara S. Larsen**  
DuPont Company, Science and Engineering Labs

**Prof. David Laude**  
The University of Texas at Austin

**Prof. Carlos Manzanares**  
Baylor University

**Prof. John T. McDevitt**  
The University of Texas at Austin

**Prof. James E. McGrath**  
Ethyl Chair Professor of Chemistry and Director NSF Science and Technology Center  
Virginia Polytechnic Institute and State University

**Dr. Mehdi Moini**  
The University of Texas at Austin

**Prof. Peter Pulay**  
University of Arkansas

**Prof. James W. Rogers**  
University of Washington

**Prof. Dan Schwartz**  
Tulane University

**Prof. Curtis Shannon**  
Auburn University

### Prof. Jason Shear

The University of Texas at Austin

### Prof. Solomon S. Stavrov

Tel-Aviv University

### Prof. Richard Stratt

Brown University

### Biochemistry

### Prof. Dean Appling

The University of Texas at Austin

### Prof. Joseph Bonaventura

Duke University Medical Center

### Prof. Cynthia J. Burrows

University of Utah

### Dr. Boon Chock

National Institutes of Health

### Prof. Bernd Clement

University of Kiel

### Prof. Timothy A. Garrow

University of Illinois at Urbana-Champaign

### Prof. John Gerlt

University of Illinois at Urbana-Champaign

### Prof. Barbara Golden

University of Colorado at Boulder

### Prof. Jim Haber

Brandeis University

### Prof. Thomas Kodadek

The University of Texas at Austin

### Prof. Craig Peterson

University of Massachusetts Medical Center

### Prof. Ronald T. Raines

University of Wisconsin

### Prof. Charles C. Richardson

Harvard Medical School

### Prof. James C. Sacchettini

Albert Einstein College of Medicine

### Prof. Stephen Sprang

The University of Texas Southwestern Medical Center-Dallas

### Dr. Earl Stadtman

National Institutes of Health

### Prof. Dean Tolan

Boston University

### Dr. Ernest Villafranca

Agouron Institute, California

### Inorganic

### Prof. Chris Chidsey

Stanford University

### Prof. Geoffrey Coates

California Institute of Technology

### Prof. Peter Edwards

University of Wales

### Prof. David Glueck

Dartmouth College

### Prof. Richard Kaner

University of California at Los Angeles

### Prof. Jon McCleverty

University of Bristol

### Prof. Michael Natan

Pennsylvania State University

### Prof. Martin Schroder

University of Nottingham

### Prof. Pericles Stavropoulos

Boston University

### Prof. John Vaughey

Iowa State University

### Prof. Peter Wolczanski

Cornell University

### Organic

### Prof. John Arnold

University of California, Berkeley

### Prof. Cynthia J. Burrows

University of Utah

### Prof. Erick Carriera

California Institute of Technology

### Prof. Richard Danheiser

Massachusetts Institute of Technology

### Prof. Luis Echegoyen

University of Miami

### Prof. Jonathan Ellmann

University of California, Berkeley

### Prof. Daniel A. Hershlag

Stanford University

### Dr. Dale Kempf

Abbott Laboratories

### Prof. Eiichi Kimura

Hiroshima University

### *Departmental Seminar Program* continued from page 17

**Prof. Spencer Knapp**

Rutgers University

**Prof. W. E. Moerner**Distinguished Chair in Physical Chemistry  
University of California, San Diego**Prof. Gary Molander**

University of Colorado at Boulder

**Dr. Eric J. Moore**

Amoco Chemical Company

**Prof. Albert Padwa**

Emory University

**Prof. Virgil Percec**

Case Western Reserve University

**Prof. Timothy Swager**

Massachusetts Institute of Technology

**Professor Peter Von Hippel**

The University of Oregon

**Prof. David M. Walba**

University of Colorado at Boulder

**Prof. Michael Wasielewski**

Northwestern University

**Prof. John Wood**

Yale University

**Prof. Frederick E. Ziegler**

Yale University

**Centennial Visiting Lectureship in Chemistry**Prof. William Carl Lineberger  
University of Colorado, Boulder**The Clayton Foundation Biochemical Institute Regents Lectureship**Prof. Paul Berg  
Stanford University Medical Center**Organic Division Distinguished Alumni Lecture Series**Dr. Brent Blackburn  
Genentech Corporation

Dr. Darren Magda

Pharmacyclics

**John E. Mahler Memorial Lectureship**

Prof. Jon Clardy

Cornell University

**The F.A. Matsen Endowed Regents Lectureship on the Theories of Matter**

Prof. James Hartle

University of California, Santa Barbara

**The W. Albert Noyes, Jr. Lectureship**Prof. Paul Barbara  
University of Minnesota**Rowland Pettit Centennial Visiting Professorship**Prof. Barry M. Trost  
Stanford University**Vista Chemical Company-Regents Endowed Memorial Lectureship in Organic Chemistry**Prof. Horst Kessler  
Technische Universität München**The George and Pauline Watt Centennial Lectureship**Prof. Paul Chu  
University of Houston**The 1996-1997 Welch Foundation Lectureship Program**Prof. Joseph P. Kennedy  
University of Akron

## *Undergraduate advising center rolls along* *Faculty advisor to assume role as Associate Dean for Education*

It has been an exciting year for the Undergraduate Advising Center in Welch Hall. The staff of Chris Johnson, Christina Perkins, Dave Laude and two work study students, Hwen Chiu and Sophia Sherline, have worked hard to create the best possible environment for advising over 700 chemistry and biochemistry majors.

On a curriculum front, the restriction on foreign languages has been lifted to allow more freedom to the students; this is especially popular given the increasing diversity of cultures in Texas. Selecting undergraduate research options is also more popular than ever, with students seeing research experience as a great way to answer questions about career options and even to get to know faculty better when that extra letter of recommendation is needed.

The advising center has also started to serve as a clearing house for service activities by undergraduates. Numerous science fairs, tours and chemistry circuses are now scheduled out of the office. These experiences are unfailingly popular with students looking for a breath of fresh air from the grinds of classes and exams.

A successful scholarship program for undergraduate majors continued this year with approximately \$50,000 distributed to 103 students in both merit-and need-based competitions. A list of this year's undergraduate scholarship winners is found on page 19. Needless to say we are very proud of these fine students and appreciative of the benefactors of the scholarship money.

Finally, we are sorry to report that Dave Laude will be leaving the advising center in his role as Undergraduate Faculty Advisor. He will be taking the position of Associate Dean for Education for the College effective June 1, replacing the departing Michael Starbird. However, as Dean he oversees all College Advising Centers so he'll still be around to help out Chris and Christina whether they want it or not.



*Prof. David Laude*

*1996 - 1997 Undergraduate Awards and Scholarships*

**ACS Student Academic Achievement**

Miki Susanto Roman Starikov  
Chi Kin Chen Kwoon Wong

**ACS Central Texas Section Outstanding Senior Award**

Jeffrey Leitko

**Dow Chemical USA Centennial Endowed Presidential Scholarship**

Nathan Clark Grace Choy

**Norman Hackerman Endowed Presidential Scholarship**

Tim Marquart

**Burl Gordon Rogers Endowed Presidential Scholarship**

Jeff Leitko

**Hoechst Celanese Academic Excellence Award**

Sharon L. Mauldin

**BASF Endowed Scholarship**

Hiral Shah

**Chemistry Faculty-Regents Scholarship Fund**

Anita Chin

**Dow Chemistry Alumni Centennial Endowed Scholarship**

Bradford Barker

**Dow Chemical Company Foundation**

Kelly Bennett

**Dupont Enrichment Program**

Angeline Griesgraber-Johnson	Paul Chen
Trieu Ho	Lisa Snyder
Linda Hoang	Katherine Braden
Jae H. Kim	Bena Ellickalputhenpura
Jennifer Lara	Tasneem Ahmed
Yue Ma	Sapna Patel
Sharon Mauldin	Loretta Stubbs
Angela Moore	Juanita Sanchez
Kwoon Wong	Versha Yadav

**Exxon Education Fund**

Christina Farmer

**Friends of Chemistry-Regents Scholarship**

Tina Kwan

**Hoechst Celanese Corporation**

Brian Barnes  
Leslie Sullivan  
Arturo Dela Garza  
Pedro Escamillo  
Karl Pankratz

Jessica Hernandez  
Vicki Carr  
Miki Susanto  
Brett Masterson  
Jason Vogel

**H. L. Lochte Scholarship**

Chrisanne Botello  
Andre P. Yassa

Jason Harvey

**Pirrung Scholarship Award**

Lorraine Pelosof

**Shell Oil Company Foundation**

Chris Binfield  
Nicole Garza  
Deborah Holland  
Kate Louis  
Kevin Reyes  
Paul Riojas  
Tiffany Turner  
Jeffrey Young  
Chi Kin Chen  
Naomi Silva  
Prateek Chaudhary

Jennifer Richie  
David Sudradjad  
Nitin Wadhwa  
Christina Martinez  
Summer Weston  
James Kim  
Kevin Reyes  
Chrisanne Botello  
Jose G. Arellano  
Loretta Stubbs  
Aashish Parikh

**Marie Smith Endowed Scholarship**

Christina Morton  
Diana Simmons

Shreya Parikh  
Peter Morrelli

**Louis Weisberg Memorial Chemistry Scholarship**

Tin Sheng Chen  
Toni Chu  
Owen Bishop

Stephen Hammond  
Jason Lin  
Andrew McCall

**BASF Corporation**

Jose Arellano  
Kimberly Atkins  
Owen Bishop  
Thomas Chang  
Prateek Chaudhary  
Dennis Coffman  
Katherine Day  
Jennifer Dunlap  
Stephen Hammond  
Trieu Ho  
Dinh Le  
Yue Ma  
Shephali Patel  
Lex Ramsey

Jennifer Schmitz  
Brian Scott  
Ritu Singh  
Jeffrey Stringer  
Abraham Thomas  
David West  
Cheng Shuai Feng  
Kelvin Nguyen  
Eunme Cho  
Awet Haile  
Yinghorng Liu  
Medhavi Jogi  
Qian Chi  
Andrew Tigelaar



**Who are we?** contest; The first correct entry—in fact the first entry—was received from C. Edward “Ed” Keller, B.S. Chemistry 1962, Ph.D. (Pettit) 1966. Several other correct entries were received, but Dr. Keller’s got here first. Thanks to everyone who took the time and effort to send in entries. Ed has been awarded this year’s version of the Alpha Chi Sigma T-shirt.

**Correct identities:**

**Front Row (l to r):** Lewis F. Hatch, Harry Louis Lochte, Norman Hackerman, Gilbert Haven Ayres, Roger John Williams, Henry Rudolf Henze.

**Second Row (l to r):** Philip S. Bailey, Charles Gordon Skinner, Richard Fuchs, Carl E. Wulfman, Lester J. Reed, James E. Boggs, Richard K. McMullan, Leon O. Morgan, Stanley Harold Simonsen.

**Third Row (l to r):** Robert E. Eakin, William Shive, Frederick Albert Matsen, Edwin Myers Lansford, Jr., Charles Kenneth Mann, Jesse Stone Binford, Jr., Royston M. Roberts, William Harry Robert Shaw, Pete D. Gardner.

**CHEMICAL** *Compositions*

The Department of Chemistry and Biochemistry  
The University of Texas at Austin  
Austin, Texas 78712-5300

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**Marvin Hackert  
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*Photographers*

*We welcome updates on  
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professional news -*

*send us an e-mail message:*

*chemalum@mail.utexas.edu*

*visit the Department on Internet:*

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*http://x500.utexas.edu/*