

DEPARTMENT of CHEMISTRY

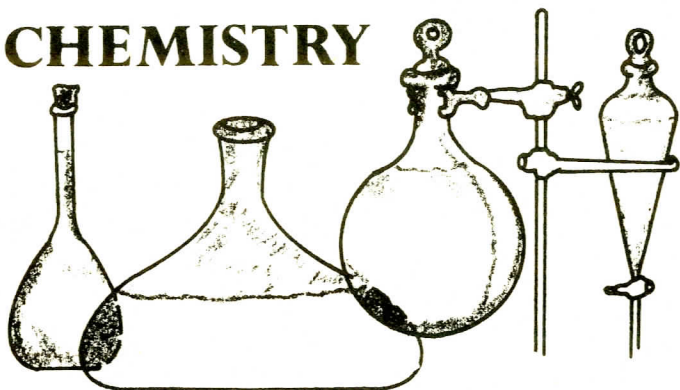
NEWSLETTER

UNIVERSITY of TEXAS - AUSTIN

No. 4

Spring 1981

CHEMISTRY



UT AUSTIN

FROM THE CHAIRMAN

Having nearly completed two semesters as chairman, I can look back with some enlightenment. One of the more delightful parts of this job has been my interaction with Tom Clark,

Gail Raven, Janis Mather and Denise Warnecke who run this office and keep me out of trouble. Beyond that, I continue to lean on Bill Wade for coaching. I'm pleased to tell you that Wade always has a big ex-chairman's smile on his face these days.

As you turn through the pages of this newsletter, I hope you will catch a sense of the high level of activity around here. I take considerable pride in the number and quality of the awards received by our faculty and students this past year. We are being recognized for our work!

As we look towards next year, I am pleased to tell you that Craig Wilcox will join our faculty as an assistant professor of organic chemistry. We are also initiating a new second-year organic chemistry course specifically for majors; this will address part of our declining enrollment problem. In addition, we are undertaking a major undergraduate scholarship program and hope that many companies and individuals will contribute to it. You can read about it in this newsletter.

On the sad side, I note that Professor W. A. Noyes died on November 25. Beyond the loss sustained by the Department, it was a significant personal loss. He was responsible for my being considered for a faculty appointment here and in many respects promoted my scientific career.

Finally, I want to encourage your personal support of our programs. Beyond your dollars, we are well served by your good will and willingness to send good students our way.

John M. White

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Mailing address: The University of Texas at Austin, Department of Chemistry, Newsletter, Austin, TX 78712.

FACULTY HONORS

The pace of research within the Department has noticeably quickened in recent years and it is a pleasure to report that our faculties' expertise and accomplishments have not gone unnoticed. During the past year many honors have been bestowed on our faculty, both the established members as well as our bright, new additions.

GILBERT H. AYRES has been selected by the Alumni Council of Taylor University for the 1981 Chamber of Achievement Award.

ALAN H. COWLEY will receive the 1980 Royal Society Award for Main Group Element Chemistry in June for his contributions to fundamental understanding of inorganic chemistry.

RAYMOND E. DAVIS was selected as one of this University's most outstanding teachers -- a well-deserved acknowledgement of his exceptional skills.

GERHARD J. FONKEN has now officially taken on the responsibilities of the vice-president for both academic affairs and research.

MARYE ANNE FOX received a Camille and Henry Dreyfus Teacher-Scholar Grant for her past performance and potential for contributions in both teaching and research. She was also promoted to the rank of associate professor, effective the Fall semester of this year.

G. BARRIE KITTO was one of twelve faculty members in the College of Natural Sciences to receive a teaching excellence award.

JOSEPH J. LAGOWSKI was elected to the American Association for the Advancement of Science. His outstanding contributions to education were acknowledged by his selection as the 1981 recipient of Catalyst Award of the Chemical Manufacturers Association and as a Piper Professor for 1981.

STEPHEN F. MARTIN received a Research Career Development Award from the Cancer Institute.

WILLIAM H. WOODRUFF was promoted to associate professor as of September, 1981.

ROBERT E. WYATT received the Medal of the International Academy of Quantum Molecular Science.

DOW SPONSORS UNDERGRADUATE SCHOLARSHIPS

Dow Chemical Company has made a commitment in the amount of \$10,000 toward an undergraduate scholarship program for incoming freshmen beginning in the fall of 1981. The details of these awards are being worked out at this time. We encourage any exceptionally qualified high-school student to request application forms from the office of undergraduate advisor.

The Chemistry Department is indebted to Dow Chemical Company for their encouragement of young chemistry majors. We are beginning to recognize that chemistry is a profession with a bright future and significant personal opportunity.

W. ALBERT NOYES JR. DIES AT AGE 82

Dr. W. Albert Noyes Jr., Ashbel Smith Professor emeritus of chemistry at the University of Texas at Austin, died on the morning of November 25, 1980.

Dr. Noyes, a physical chemist, had a long and distinguished career that earned him numerous honors, including the King's Medal from the British Empire for "Service in the Cause of Freedom," a Medal for Merit from the U.S. Government, the Priestly Medal from the American Chemical Society and several other chemistry awards.

He was a member of the National Academy of Sciences and an honorary member of the Chemical Societies of London, France and Belgium and of the Royal Society of Physics and Chemistry in Spain.

In 1975, he was elected to the French National Academy of Sciences.

During his career he was active in the American Chemical Society, the American Academy of Arts and Sciences, the American Physical Society, The American Philosophical Society and several other professional groups.

Born April 18, 1898, in Terre Haute, Indiana, Dr. Noyes was educated at the University of Illinois, Grinnell College, University of Paris, University of Geneva and the University of California. He also was awarded seven honorary degrees.

Survivors include his wife, Sabine O. Noyes of Austin; a son, Claude C. Noyes of Rochester, N.Y., and one grandchild.



George Watt Memorial Fund

With a view toward establishing a George W. Watt Endowed Professorship, a select Committee of W.A. Jenkins, W.A. Baker, J.J. Lagowski, H.D. Medley, and L.O. Morgan is coordinating a fund-raising drive. The goal is to secure contributions totalling \$100,000, the minimum needed to establish a permanently endowed Professorship.

Professor Watt, who died March 29, 1980, was a central figure in the development of the chemistry department. Those who studied with him know of his high standards and his continuing interest in the professional development of students.

Contributions may be made by check to the George W. Watt Memorial Fund and mailed to: Professor J. J. Lagowski, Department of Chemistry, University of Texas at Austin, Austin, TX 78712.

UT ALUMNUS RECEIVES ACS 1980 SOUTHWEST REGIONAL AWARD

Jett C. Arthur, Jr. of New Orleans received the award at the Awards Luncheon on December 11, 1980 at the Southeast/Southwest Regional meeting of the ACS. He is a graduate of Stephen F. Austin State University and earned his masters degree in physical chemistry and chemical engineering at UT-Austin. Mr. Arthur is recently retired from the Southern Regional Research Center, U.S. Department of Agriculture, located in New Orleans, Louisiana. His research accomplishments are documented in more than 200 publications and patents.

This award was established in 1948 to recognize outstanding contributions by a chemist or chemical engineering in the Southwest to the chemical profession, the science of chemistry, and the chemical industry. It is presented annually.

Previous award winners from UT-Austin:

1948 Dr. E.P. Schoch
1950 Dr. R.J. Williams
1953 Dr. H.R. Henze
1958 Dr. K.A. Kobe
1961 Dr. H.L. Lochte

1965 Dr. Norman Hackerman
1968 Dr. Rowland Pettit
1974 Dr. George Willard Watt
1978 Dr. Michael J.S. Dewar

PAINTED CEILINGS IN PARTS OF CHEMISTRY BUILDING RESTORED DURING RENOVATION



For the present to enjoy; the past to remember. Ms. Harwood and Ms. Treanor tediously and painstakingly restore the painted ceilings in the former library of Robert A. Welch Hall. Such restoration is scheduled for next summer of the former lecture hall, room 15.

1957 CHEMISTRY FACULTY AT UT-AUSTIN



We have a nice photo of the chemistry faculty taken in 1957. It is available to all contributors upon request.

NOTICE TO ALL ALUMNI

At the fall ACS meeting, as well as the spring meeting, there will be an
"Alumni Hour".

At the fall meeting, it is tentatively scheduled from 5:30 to 7:00 pm,
Tuesday, August 25.

Tentatively, we are planning a similar gathering at the spring meeting.

Location of the social gathering will be published in the Calendar of
Events for the meeting, which appears in the Chemical & Engineering News.

H O N O R S T O S T U D E N T S

Graduate Awards

AMERICAN VACUUM SOCIETY FELLOWSHIPS

Diane Peebles
Randy Creighton

CHEMISTRY DESIGNATED SCHOLARSHIP

Bruce E. Koel

DUPONT FELLOWSHIPS

Dustin K. James
Carol Triebel
Donald McRorie
Bob Lee Wheeler
Diane Peebles
Lee J. Handley

EXXON FELLOWSHIPS

John P. Buckley

GULF FELLOWSHIPS

Vickie Grizzle

HENZE TEACHING EXCELLENCE AWARDS

Barry Wiechman
Thomas Lenert
David Giamalva

MILLER FELLOWSHIP AT BERKELEY

Bruce Koel

PITTSBURGH PLATE GLASS FELLOWSHIP

Steven Rines

SHELL FELLOWSHIP

James Randy Creighton

UNIVERSITY FELLOWSHIPS

John Hutchinson
Curtis Shoemaker
David Robbins
James B. White

PROCTOR AND GAMBLE FELLOW OF THE AMERICAN CHEMICAL SOCIETY

Bruce Koel

UNIVERSITY SUMMER FELLOWSHIPS 1979

Vickie Cummings-Malueg
Vickie Grizzle
Dustin James
Keith James
Kim Koile
Mary Leopold
Don McRorie
Diane Peebles
Bob Wheeler

OUTSTANDING DOCTORAL DISSERTATION AWARD 1980-81

John S. Hutchinson was one of three University of Texas students to receive an Outstanding Doctoral Dissertation Award from the University Graduate Committee. The award was in recognition for his fine work and achievement in scholarship, research, and his dissertation on "Quantum Ergodicity in Model Molecular Systems: A Study of the Wigner Distribution". Dr. Hutchinson's research supervising professor was Robert E. Wyatt within the Physical Division of the Chemistry Department.

HONORS TO STUDENTS

Undergraduate Awards

ACS CENTRAL TEXAS SECTION

Kim Jeannine Horn
David Martin

INDUSTRIAL SCHOLARSHIPS

Dorothy Banks

Rodney Ruoff

Radian

Philip Owens

ATLANTIC RICHFIELD ACADEMIC EXCELLENCE

Susan Ahlgrim
Michael J. Dowling
Brian B. Laird
Scott R. Pulliam
Rodney S. Ruoff

Dow Chemical for the Minorities

Linus Ho

AYRES BOOK AWARD

Wanda Wells

MERCK BOOK AWARD

Kim Jeannine Horn
William Clayton

BOSWELL SCHOLARSHIP

Ann Hoffschwelle

ROBERT A. WELCH FOUNDATION SCHOLARS

Edmund Braeuer
Thane E. Kreiner
Brian B. Laird
David Provost

CHARLES MORTON SHARE SCHOLARSHIP

Thomas Dewar

FRESHMAN SCHOLARSHIPS

James N. Barnes
Rodney Fallin

W. A. FELSING AWARD

Floyd Cordell

CHEMISTRY DEPARTMENT AWARDS FELLOWSHIPS TO TWO OUTSTANDING GRADUATE STUDENTS

The Department of Chemistry recently awarded fellowships to two outstanding graduate students for the 1980-81 academic year.

Gulf Oil Foundation generously funded one fellowship awarded for a one-year term to a graduate student selected by a departmental awards committee. This year, Ms. Vickie Grizzle was chosen as recipient of the Gulf Oil Foundation Graduate Fellowship. Ms. Grizzle is a second-year student involved in physical chemistry research under the supervision of Professor Alan Campion. Her academic record and research performance is truly excellent and the Department is pleased that Gulf Oil Foundation has chosen to recognize her outstanding potential as a chemist.

Shell Company's Foundation has awarded a Shell Graduate Aid to Mr. Randy Creighton, a graduate student also involved in physical chemistry research. Designed to strengthen activities at the graduate level, the Shell Graduate Aid awarded to Mr. Creighton will not only support his innovative research, but will also permit him to attend national meetings in his field and other professional activities associated with his research. Mr. Creighton is a fourth-year student in the advanced stages of his Ph.D. dissertation research under the supervision of Professor John M. White. Mr. Creighton is a former recipient of a University Fellowship awarded to outstanding graduate students at The University of Texas at Austin.

GRADUATE DEGREES FALL, 1979 - FALL, 1980

Master of Arts

- Nils Akerlind, Jr. with Prof. J. Holcombe
Flameless Atomic Absorption Spectroscopy: Effects of Nitrates and Sulfates
- Sandra Lee Bird with Prof. J. Robertus
Action of Pokeweed Antiviral Protein
- James W. Checkley with Prof. J.M. Ravel
Purification and Partial Characterization of Eukaryotic Initiation Factor 3 from
Extracts of Wheat Germ
- William Michael Daniel with Prof. J. White
The Oxidation of Carbon Monoxide on Rhodium (100)
- James Edward Friedheim with Prof. M. Dewar
An Investigation of the $C_7H_7^+$ Ion Photodissociation Using the MINDO/3 and
MNDO Methods
- Clara Kam-fun Ho with Prof. W. Woodruff
Resonance Raman Spectroscopic Studies of Certain Macrocyclic Molecules
- Boyce A. Hornberger with Prof. W. Woodruff
A Resonance Raman Study of Alkali Metal 2,2'-Bipyridyls and Triplet -Carotene
- Ming-Hsing Huang with Prof. A. Bard
The Absorption of Proteins and Catalytic Currents at the Hanging Mercury
Drop Electrode
- Bao-Rong Jaw with Prof. J. Whitesell
Asymmetric Induction in the Addition of Organometals
- Christine L. Johnson with Prof. W. Wade
An Investigation of the Interfacial Tension Behavior of Several Ethoxylated Sulfonates
- Ada Alvaro Lichaa with Prof. D. Ziegler
Changes in the Activity of Flavin-containing Microoxygenase and Glutathione Reductase
in Post-natal Golden Hamsters
- Laurence Charles McGonagle, Jr. with Prof. J. Holcombe
Microphotometric Errors for Photographically Recorded Spectral Lines of Non-uniform
Half-width.
- Robert Wilson Ramage with Rowland Pettit
Homogeneous Catalytic Reductions Utilizing Carbon Monoxide and Hydrogen
- Jessie Blake Salmon with Prof. M. Hackert
A Study of the Quaternary Structure of Histidine Decarboxylase from Lactobacillus 30a

Barbara Elaine Small with Prof. D. Ziegler
Immunohistochemical Localization of Microsomal-flavoprotein Mixed-function Oxidase in
Procine and Hampster Tissues.

Kevin Michael Sweeney with Prof. R. Roberts
Friedel-Crafts Alkylation and Pyrolysis Studies on a Texas Lignite Coal

Doctor of Philosophy

Mohmed Aoudia with Prof. W. Wade
Spectroscopic Investigation of the Effect of Surfactant Structure on Aqueous Micellar
Solutions

William M. Carson With Prof. M. Hackert
X-Ray Crystallographic Studies of Monomeric and Dimeric Hemoglobins from the Sea
Cucumber Molpodia arenicola

Howard William Clark with Prof. B. Swanson
A Vibrational Study of some Mixed-Valence Solids

Thomas E. Cole with Prof. R. Pettit
Some Aspects of Organometallic Chemistry

Sunil Desai with Prof. S. Martin
Heteroatom-Substituted Phosphonium Salts: New Reagents for Annulation of Cyclohexenones.
Intramolecular Diels-Alder Reactions of Enamides

Victor Alan Fishman with Prof. A. Bard
The Development and Application of a Photoacoustic Spectrometer. A Digital Simulation
of the Photoacoustic Effect

Ira Hessel with Prof. P. Stotter
I. Approaches to a Stereoselective Synthesis of Prostaglandins and Prostaglandin Analogs.
II. A New Preparation of Methylacetylenes and Teraminol Acetylenes.

Barbara Lindig with Prof. W. Wade
Laser Flash Photolysis Studies of Singlet Oxygen Kinetics in Aqueous and Micellar Solutions.

Robert David Mitchell with Prof. N. Bauld
2-Phenalanone and Related Systems. Exocyclic Charge Flight from Cyclopropenides.
Approach to a Stable Hydrocarbon Norcaradiene.

Thomas Allen Puckette with Prof. S. Martin
New Methods of Alkaloid Synthesis. The Total Synthesis of O-Methyljoubertiamine and
Mesembrine and Approaches to the Total Synthesis of Mesembrenone and Pretazettine

Shei-Kung Shi with Prof. J. White
Chemisorption and Reaction of Oxygen-Containing Species on Pt. Ru(001), Cu/Ru(001)

Gary Smith with Prof. W. Shive
Amino Acid Antagonisms and Alteration of Regulation and Editing in a Valyl-trna-
Synthesis

Fu-Hsiang Tseng	with Prof. J. White
Low Pressure Kinetics of Carbon Monoxide Oxidation of Platinum Metals and the Implementation of Laboratory Microcomputer	
Jesus Ernesto Villafrance	with Prof. J. Robertus
The Crystal Structure of Ricin at Low Resolution	
Upali Weerasooriya	with Prof. J. Gilbert
Generation and Chemistry of Diazoethenes	
David Dale Wirth	with Prof. N. Bauld
Theoretical Analysis of the Conjugate Addition of Methylene to s-cis-1,3-Butadiene. Comparison of Anionic, Cationic, and Neutral Homoaromaticity. Generation of Helical, all <u>cis</u> Trienes.	
Yuh-Lin Yang	with Prof. S. Monti
Total Synthesis of Diterpenes Containing a Bicyclo 3.2.1 octane Nucleus: Racemic Stachenone, Isophyllocladene and Calliterpenone	
Seung Hyun Yoo	with Prof. W. Shive
Direct Involvement of Transfer RNA in Amino Acid Transport Systems of E. coli	

FROM THE DESK OF GRADUATE ADMISSIONS ADVISOR

The department continues to be successful in attracting new graduate students to attend the University of Texas to pursue an advanced degree in chemistry. Since June 1980, 69 M.A. or Ph.D. seeking candidates have entered. Of these, 61 received either their undergraduate or graduate degrees from academic institutions in the U.S. As has been the case in recent years, the vast majority of our new students are from out of state, only sixteen of them having been educated in Texas schools with four of these being graduates of UT.

Nine of the new students were awarded University summer fellowships that allowed them to enter our program in June rather than September. These individuals were able to spend the summer initiating their research and/or coursework. An additional eleven students entered in the summer with support in the form of research assistantships. In general, we find an increasing number of students wish to start graduate school in the summer in order to get "acclimated" to their new environment in a more relaxed fashion than exists in the fall. There is no doubt in our minds that these early entrants in general get off to a quicker start on their graduate programs than do students entering at the more traditional time.

We are also pleased to report that the number of applicants for admission to our graduate program in summer/fall 1981 is up slightly (approximately 10%) from last year. Since our teaching assistant stipends are more competitive this year, we hope that a larger percentage of those students given offers of financial support will accept. Thanks to generous donations by a number of chemical companies, including Atlantic Richfield, Dow, DuPont, Ethyl Corporation, Exxon, Merichem, Monsanto and Pittsburgh Plate Glass, we were able to offer additional fellowship support to a number of highly qualified applicants.

We are continuing to work hard to contact new prospective students and get them to apply. A number of our faculty members actively recruit potential applicants when they present seminars at various colleges and universities. You can also assist us in these important efforts by encouraging qualified undergraduates to apply to UT-Austin.

O B I T U A R I E S

B.J. ARMENDT, Ph.D., 1932. Died: Sept. 11, 1979. Survived by his widow who resides in Baytown, Texas.

SHAMSHER SINGH BATH, Ph.D., 1956. Austin, Texas.

DENTON JACOBS BROWN, M.A., 1912. Lincoln, Nebraska.

LOY BENJAMIN CROSS, Ph.D., 1938. Atlanta, Georgia.

COL. WILSON T. DAVIDSON, M.D., Ph.D., 1896. Belton, Texas.

DR. HENRY BENJAMIN DECHERD, M.A., M.D., 1897. Dallas, Texas

CLIFTON H. DURHAM, JR., B.S., 1970. Received B.S. in Chemistry and B.A. in Mathematics with Honors. Died in Silver City, NM, March, 1980.

IRA FLOYD FERGUSON, M.A., 1937. San Antonio, Texas.

GLENN ROBERT GADDIS, B.S., 1974. Odessa, Texas.

ADDNIRAM J. JAMES, B.S., 1890; M.D., 1899. Houston, Texas.

JOHN LEONARD JONES, B.S., 1967. San Antonio, Texas.

RUFUS VERNON JONES, Ph.D., 1937. Bartlesville, OK.

EILHARD N. KAHLENBERG, Ph.D., 1954. Sarasota, Florida.

JOHN EDWARD MAHLER, Ph.D., 1963. Richmond, Texas.

ALBERT S. MEYER, JR., Ph.D., 1953. Norris, Tennessee.

DR. LYMAN A. RIPPERTON, Ph.D., 1954. Chapel Hill, North Carolina.

DONALD G. ROSENBAUM, B.S., 1965. Caldwell, Texas.

WALTER ADOLPH SCHULZE, M.A., 1925. Bartlesville, Oklahoma.

WILLIAM M. SLAGLE, M.A., 1928. Lubbock, Texas.

WILLARD C. THOMPSON, Ph.D., 1930. Baytown, Texas.

GERTRUDE VAN ZANDT, Ph.D., 1950. Died: Jan. 20, 1980; survived by sister, Nell Ornee, Fort Worth, Texas.

DR. GOODALL H. WOOTEN, M.A., 1892. Austin, Texas.

BERT SO RELLE GORTON, Ph.D., 1957. Orange, Texas.

FLORIDA STATE UNIVERSITY NAMES CHEMISTRY LECTURE HALL AFTER UT ALUMNUS

Fisher Lecture Hall has been named after J.R. Fisher who was a professor at Florida Sate University from the mid-1950's until his death in 1977. Dr. Fisher received his Ph.D. in 1954.

Alum Retorts

JOHN V. KENKEL, M.A. (A. Bard)

Program Director (and chemistry teacher) of Environmental Laboratory Technology training program at SCC (Southeast Community College, Lincoln, NB). This is a 6-quarter program for the training of laboratory technicians. Been here since July, 1977. Married Lois Dougherty in Los Angeles, 1975. Have 2 children: Angie, age 3; Jean, 5 Mos.

MICHAEL McMILLAN, B.S. (Class of 1976)

Michael is completing his Ph.D. with Prof. Gilbert Stark and has been named the first Louis E. Fieser fellow of the Fieser Foundation. This award allows him to execute post-doctoral work in chemistry at any academic institution in the Boston Area. Mike has elected to work with Prof. Alexander Rich at MIT.

MICHAEL C. PIRRUNG, B.S. (Class of 1975)

Michael is completing an NIH post-doctoral year with Prof. Gilbert Stark and has accepted a position as Assistant Professor at Stanford University.

WM. ALFRED SMITH, Ph.D. (H. Lochte)

Retired May, 1969. 1945-69, International Dept. Du Pont Co., Wilmington, Del.; 1944-45, Manhattan Project, Explosives Dept., Du Pont in Richland, Wash. and Wilmington, Del.; 1930-44, Process Development and Manufacture of high explosives, Du Pont Co. (N.J., Missouri, Illinois and Colo.); 1928-30, Asst. and tutor, Org. Chem., U.T.-Austin.

JOSEPH J. RAFALKO, Ph.D. (B. Swanson)

Changed jobs in September, 1980, from American Can in Neenah, Wisconsin to Celanese in Summit, N.J. (Research Chemist).

Alum Retorts

JOHN H. ALSOP, III, Ph.D. (A. Ayres)

As of Feb 1, 1980, took early retirement from Texaco (in Port Arthur). Now self employed running family business; i.e., Oklahoma Oil Properties, known as "OOPS". (Boerne, Texas)

JOSEPH B. ASHTON, Ph.D. (P. Bailey)

Manager-Plans & Analysis, Manufacturing, since 1976 for solvents and resins in Shell Oil's Technical Organization. Manager, Shell Chemical Company's Elastomers Business Center 1972-1976. Manager, Energy Forecasting for Shell Oil 1970-1972. Manager, Shell Chemical's Dominguez, California chemical plant 1969-1970. Chairman, Demand Forecast Special Study for Energy for National Petroleum Council 1971-72. Assistant Manager, Shell Oil Company's Supply Forecasting Group 1969-1970. (Houston, Texas)

W. NELSON AXE, Ph.D. (P. Bailey)

Retired Jan 1, 1975. Formerly with Phillips Petroleum Company. (Bartlesville, Oklahoma)

JERRY A. BROUSSARD, Ph.D. (R. Pettit)

Joined Celanese Chemical Company Research Center in Corpus Christi, Texas, May 1970. Promoted to Staff Chemist February 1980.

MARTHA RUSS EDENS, M.A. (R. Pettit)

Worked at Rubicon chemicals starting Feb., 1979; began at Dow Feb. 1980 in research & development. (Plaquemine, Louisiana)

JOHN D. BUTLER, B.S. (W. Wade)

Lieutenant, U.S. Navy currently serving as Navigator on board the nuclear Fleet Ballistic Missile submarine, USS James K. Polk (SSBN 645) Gold.

KIM CHRISTIE-BOONE, B.S. (R. Roberts)

Position - Chemist, Division - Petroleum, Group - Refinery Process Chemicals Product research and development for petrochemical process additives - antifoulants, antifoams, corrosion inhibitors.

Alum Retorts

JOHN T. BOWMAN, Ph.D., M.D. (A. Bard)

Graduated from University of Texas Medical School at San Antonio in 1975 and recently completed Ophthalmology residency at University of Oklahoma. In private practice of ophthalmology in Tahlequah, Oklahoma.

ROBERT H. DAVIS, B.S. (J. Holcombe)

Graduate school entrant for Fall '80 in UT Environmental Health Engineering. Desire to go into Environmental Analytical Chemistry. (Austin, Texas)

DARWIN D. DAVIES, Ph.D. (G. Watt)

Have spent the biggest part of my professional life in industry during the last 20 years. Returned to Tennessee in September, 1975, as Director of Evening & Off-Campus Instruction (Walters State Community College). Will probably go into full-time teaching of chemistry during last years at Walters State. (Morristown, Tennessee)

GORDON DORSEY, B.S. (Class of 1976)

Completed a tour as chemistry and radiological assistant aboard USS Nimitz (CVN 68) and currently serve as combat information center officer aboard USS California (CGN 36).

MICHAEL W. EDENS, Ph.D. (R. Pettit)

Senior Research Chemist for Dow Chemical, USA, Louisiana Division, since June, 1978. Research currently involves Ag catalyzed oxidation of ethylene to ethylene oxide. (Plaquemine, Louisiana)

MARTHA A. EBRA, M.A. (J. Gilbert)

Employed by DuPont for the past three years - process chemist, laboratory supervisor. Now involved in the development of nuclear waste treatment processes. (Aiken, South Carolina)

DONALD L. HORNEY, Ph.D. (L. Reed)

Co-recipient of a Chicago Hospital Council Humanitarian of The Year Award with Bethesda Hospital Comptroller for housing large Vietnamese refugee families temporarily in conjunction with the sponsorship of our respective churches.

Alum Retorts

ROBERT H. ELLISON, Ph.D. (Class of 1972)

I am newly employed by Shell Development Company as a Research Chemist. (Houston, Texas)

CALVIN C. FONG, M.A. (P. Bailey)

Have perfected my patented process " ^{14}C pellet blasting" for licensing to various industrial companies in the United States, Europe and Japan. This will replace, hopefully, most of sandblasting and shotblasting all over the world. (Beverly Hills, California)

VICKI FREEMAN-WELLS, B.A. (Class of 1975)

Medical Technologist in Biochemistry Section at Tripler Army Medical Center in Honolulu, Hawaii.

LING-KANG LIU, Ph.D. (R. Davis)

Liu, Ling-Kang holds a position as associate research fellow in the Institute of Chemistry, Academia Sinica, Taipei, Taiwan.

MILTON E. GETZENDANER, Ph.D. (R. Williams)

Retired from Dow Chemical Company, July 25, 1980. Ev and I will be trailering full time for awhile. Plan to settle eventually in Olympic Peninsula, Washington State. (Indianapolis, Indiana)

RUFUS G. HAYNES, Ph.D. (P. Gardner)

On May 1, 1979 I transferred from Shell's Biological Sciences Research Center in Modesto, California to the Westhollow Research Center in Houston, Texas. (After 22 years in Modesto in Shell's Animal Health Research, the last 10 as a supervisor in R&D). The move was a result of Shell selling their animal health business and discontinuing research & development in that area.

WALTER W. HENSLEE, Ph.D. (R. Davis)

Promoted (1980) from research specialist to research leader. In charge of ceramics development group working on catalyst supports and refractories. Member of Joint Committee on Powder Diffraction Standards. (Freeport, Texas)

Alum Retorts

JOSEPH T. HORECZY, Ph.D. (Lochte)

Retired from Exxon Chemical Company, 1978; consultant in chemistry and chemical-engineering, specializing in Plastics and Petrochemicals. (Baytown, Texas)

ROBERT P. HURST, Ph.D. (F. Matsen)

Has been on the faculty of the State University of New York at Buffalo since 1962. Is currently the Associate Chairman of the Physics Department.

FRED F. KADLUBAR, Ph.D. (D. Ziegler)

Promoted to Director, Division of Carcinogenesis Research. Became proud owner of an Arkansas Cadillac (4-wheel drive, 6-passenger pick-em-up truck). (Mabelvale, Arkansas)

CSABA KESZTHELYI, Ph.D. (A. Bard)

Has returned to Baton Rouge after spending 12 months in Germany and Hungary as a National Academy of Sciences exchange professor.

DON KERN, Ph.D. (W. Gardiner)

Appointed Professor of Chemistry (1977) and Chairman (1980), Department of Chemistry, University of New Orleans.

DONALD S. KLETT, Ph.D. (G. Watt)

Sangamon State University, Springfield, Ill, 1972-1979, Associate Professor of Computer Science and Director of Computer Center. Joined Bell Laboratories at Holmdel, NJ, June 1979 as MTS in software development.

RODNEY F. LLOYD, Ph.D. (W. Shive)

Supervisor, Flexible and RIM Vrethanes. Member, Board of Trustees, Round Rock Independent School District. (Round Rock, Texas)

THOMAS W. CONWAY, Ph.D. (W. Shive)

On sabbatical leave with Dr. Ian Kerr, Imperial Cancer Research Fund Laboratory, London; studying effects of interferon on protein synthesis.

THOMAS E. SAMPLE, JR., Ph.D. (L. Hatch)

My present professional position with Dresser Industries, Inc., is Senior Scientist. (Houston, Texas)

Alum Retorts

TOM F. DAVENPORT, JR., Ph.D. (H. Henze)

Promoted to Commercial Development Associate in Ethyl's R & D in mid-1980. Three children, oldest is now Ph.D. candidate in Physics at Florida State University. Have 1 grandson 4 years old in Houston. (Baton Rouge, Louisiana)

KYLE WARD, Ph.D. (Felsing)

Retired -- Professor Emeritus, Institute of Paper Chemistry, Appleton, Wisconsin.

GREGORY GIROLAMI, B.S. (Class of 1977)

I got married in July 1979, and graduate work at Berkeley is going very well....Was also able to visit Austin after the Houston ACS National meeting last spring.

RAY A. LOGHRY, Ph.D. (S. Simonsen)

Employed as a senior chemist in The Analytical section of the Chemical Research Department (Halliburton Services). Currently involved in electron microscopy, X-ray powder diffraction, and X-ray spectroscopy. (Duncan, Oklahoma)

RICARDO FUENTES, Ph.D. (L. Morgan)

Recently promoted to Project Leader in Dow Louisiana R & D, HDPE catalyst area. I have been with Dow since June 1977 after a two-year postdoctoral with Dr. R. Barker, Michigan State University. (Baton Rouge, Louisiana)

GEORGE E. RIDGE, M.A. (A. Bard)

Private practice of law. Corporate, commercial, securities. Enjoy occasional environmental work representing St. Reon and St. Joe paper companies. (Jacksonville, Florida)

BALDEV S. MANHAS, Ph.D. (G. Watt)

Joined Punjabi University as Professor of Chemistry on 20 October 1976; took over as Head of Department in May 1978 and has been working as Dean of Physical Sciences since July, 1979. (Patiala, India)

B. G. AMERSON, B. S. (Class of 1948)

Retired after 30 years with Shell Oil Refinery, Deer Park, TX as senior chemist in refinery laboratory. (Kerrville, TX)

Alum Retorts

JOE H. CLARK, M.A. (H. Henze)

Ph.D. (Roger Adams) 1940, U. of Illinois. Two years with Eastman Kodak, Rochester, NY; 34 years with American Cyanamid (Lederle Labs), retiring December 1976 as Director of Administrative Services, R & D. Married; three sons.

JEFF H. EILERT, Ph.D. (N. Bauld)

Left chief administrator position at St. Charles Medical Center in 1979. Accepted position at Aurora College - became Associate Professor in 1980.

MICHAEL L. MCKEE, Ph.D. (M. Dewar)

Will spend one more year as a post doctoral student under W.N. Lipscomb (Harvard) before seeking an academic appointment.

TIMOTHY MULVAHILL, B.S. (Class of 1975)

Completed a Master's degree in Chemical Engineering at Louisiana State University in Baton Rouge, December 1979. Employed as a process engineer for Amoco Chemicals, Texas City since March 1979 -- assigned to a styrene monomer unit.

FRED E. POTTS, III, Ph.D. (P. Bailey)

Joined staff of Anesthesia Department at Wilford Hall Hospital, July 1, San Antonio, Texas.

ROBERT HOLLOWAY, Ph.D. (P. Munk)

Since leaving Dr. Bauld's group (late 1976), I have completed a post-doc with Andrew Streitwieser at the University of California, Berkeley and started work at Hewlett-Packard Laboratories, Medical/Analytical Group in August, 1978. In January 1979, my wife and I were happy to welcome our daughter, Leata, to the world and in September of that year we moved into our own home in Campbell, California.

KENNON M. GARRETT, B.S. (Class of 1974)

Received Ph.D. in Pharmacology in the Fall of 1980. I have accepted a postdoctoral fellowship with Dr. E. L. Way at UCSF Medical Center.

Alum Retorts

THOMAS W. MUECKE, Ph.D. (M. Davis)

Currently Senior Research Supervisor of completions section at Exxon Production Research Company. (Houston, Texas)

JAMES D. HENERY, Ph.D. (R. Pettit)

I am currently research manager for El Paso Products Company.

WILLIAM HOLLINGSWORTH, B.S. (Class of 1977)
Graduate student, UC Berkeley

JOSEPH S. FRANCISCO, B.S. (Class of 1977)
Graduate student, MIT

L. E. KIDWELL, JR., Ph.D. (L. Hatch)
Manager, Hydrocarbon Research, Pennzoil Products Company. (Shreveport, Louisiana)

ELWOOD H. LaBROSSE, Ph.D. (R. Williams)
Recently was appointed as Associate Professor in the Department of Pathology, and I am continuing to investigate the biochemistry of tumors of neural crest origin. On the personal side--My wife Emma and I are about to celebrate the second birthday of our first grand-daughter (and first grandchild)--John and Alison's daughter, Kendra. (University of Maryland School of Medicine, Baltimore)

TERRY D. TILLEY, B.S. (Class of 1977)
Graduate student, UC Berkeley

STANLEY J. McNEME, D.D.S. (Class of 1974)
Received my BS in '74 and DDS in '78. The newsletter brought back many memories, many enjoyable. (Amberg Dental Clinic)

PAULETTE BAUER-MIDDLETON, Ph.D. (R. Wyatt)
Presently I am the atmospheric chemist on a multidisciplinary team organized to develop better methods of integrating scientific information and social values for policy analysis dealing with environmental problems. Personal research interests include atmospheric transformation processes of gases and aerosols and impacts of aerosols on the environment. Have become an avid hiker and skier. (Boulder, Colorado)

UT Chemistry Newsletter

Alum Retorts

DAVID M. MOHILNER, Ph.D. (N. Hackerman)

Professor of Chemistry at Colorado State University. Teach Physical Chemistry and have active research program in interfacial electrochemistry.

JOSEPH T. MALOY, Ph.D. (A. Bard)

Now in my third year as Associate Professor of Chemistry at Seton Hall and trying to bring Texas culture to Northern New Jersey!

LESLIE G. NUNN, JR., Ph.D. (H. Henze)

The Process Chemicals Division of Diamond Shamrock Corporation recently announced the promotion of Leslie G. Nunn, Jr. to senior patent counsel. He holds B.S., M.S. and Ph.D. degrees from UT Austin as well as a law degree from Seton Hall University.

Les joined Diamond Shamrock's Patent Department in Newark, New Jersey in 1965. He later served at the company's T.R. Evans Technical Center in Fairport Harbor, Ohio. At the present he is located at Process Chemicals Division's headquarters in Morristown, N.J.

During his service with Diamond Shamrock, he has obtained U.S. and foreign patents on many important Diamond Shamrock products including chemical specialties, electrochemicals, pesticides and feed additives.

A native of Uvalde, Texas, he resides with his wife in Pearl River, N.Y.

WILLIAM H. ORME-JOHNSON, Ph.D. (W. Shive)

Went to U of Wisconsin, Madison in 1965. Postdoc -- Prof Biochem 1965-1974; 1979 accepted post as Professor of Chemistry, MIT; wife is Nanette Roberts Orme-Johnson, Texas B.A. 1959, Wisconsin Ph.D. 1973. Nan is now Principal Research Scientist in Chemistry at MIT.

JUDSON S. SWEARINGEN, Ph.D. (E.P. Schoch)

Judson S. Swearingen of Los Angeles, CA, is president of Rotoflow Corp., which he founded 35 years ago. He has no plans to retire. Rotoflow manufactures and sells turbo expanders worldwide, used for industrial deep low-temperature refrigeration for LPG recovery, air separation, etc.

Alum Retort

DAVID F. PICKETT, Ph.D. (C. Anderson)

At present I am supervising engineering of nickel-cadmium and nickel-hydrogen satellite battery systems in a total of 11 satellites while being directly involved in R&D on nickel-cadmium, nickel-hydrogen and high energy non-aqueous batteries (Did I get a Ph.D. to work this hard?). (Palos Verdes, CA)

THEODORE J. PHILLIPS, Ph.D., M.D. (Class of 1974)

Received Ph.D. in Immunology in 1979 and MS in 1981 from Southwestern Medical School at Dallas. Intend to pursue clinical research in Neuroimmunology.

MICHAEL C. PIRRUNG, Ph.D. (Class of 1975)
Completing NSF Post-Doc at Columbia under G. Stork.

WALTER TIPPIN, B.A. (Class of 1977)
Junior Dental Student -- UT San Antonio.

VALENTIN C. RIO, B.S. (Class of 1976)
I'm employed as a process development engineer in a steel plant where the iron oxides in iron ore are reduced to iron using hydrogen at high temperature to react with oxygen. The hydrogen used comes from reforming of natural gas. (Received M.S. November 1979 KSU) (Puebla, Mexico)

JOE L. SADLER, Ph.D. (A. Bard)
Purchasing Agent, Catalyst & Chemicals-present functions. Previously analytical research & development supervisor (Celanese Chemical Co., Inc.). (Dallas, Texas)

JUEL P. SCHROEDER, Ph.D. (M. Dewar)
Retired as Professor Emeritus from Chemistry Department, University of North Carolina at Greensboro, May 31, 1981. (Indianapolis, Indiana)

FREDERIC J. WEBER, B.S. (Class of 1977)
Adhesive bonding, dynamic mechanical/acoustic properties of elastomers and composites are two of the areas in which I have been working since graduation.
Bought a house in Austin.

Alum Retort

GEORGE M. SIMS, M.A. (R. Eakin)
Vice President - Technology, Hycel/
Boehringer Mannheim. (Houston, Texas)

MARK WARNACK, B.A. (Class of 1978)
Recently promoted to position of Senior Technologist - Production Department - Quality Control and Product Development.
Would like to see more about fellow ex-students - those with undergraduate degrees. (Baytown, Texas)

CLAUD W. PAYNE, B.S. (Class of 1976)
Systems Representative (started Aug. 1978) with IBM in Houston. M.S. from University of Rochester in organometallic area from Dr. A.S. Kende & R. Eisenberg.

RAYMOND P. KWONG, B.S. (Class of 1979)
Now attending medical school at UTHSC, San Antonio, Texas.

JAMES S. BOGARD, Ph.D. (D. Kohl)
We have been in Oak Ridge a year-and-a-half, now. Next to Austin, it's about as ideal a place to live as you are likely to find. There are as many clubs and cultural activities as in a small city, and the level of intensity to which most people engage in various hobbies is surprising. I acquired amateur radio as a pasttime while we were at Argonne National Laboratory, and the Oak Ridge Amateur Radio Club is active in almost every facet of the hobby. I am currently the Public Service Coordinator for the club.

My job in Oak Ridge is with the Y-12 Plant's Development Division. Besides working at Y-12, I also hold an appointment as a Visiting Professor at Knoxville College in Knoxville.

JUANITA NEWMAN GEARING, Ph.D. (P. Parker)
Doing research in the fate (mechanisms and rates of transport of various organic pollutants in marine environment using large (13,000 l water, 1 ton sediment) microcosms. (Jamestown, Rhode Island)

JAMES WHITE, B.S. (Class of 1978)
Received M.S. in Computer Science from U. of Wisconsin, Madison. (Dallas, Texas)

K E E P I N T O U C H !

In order for our address file to be as complete and up-to-date as possible, please complete the biographical information form below and return to us, if there have been any changes in the last 12 months. The bottom part of this sheet provides space for news about you or your comments. We'd like to hear from you! Mail to: University of Texas at Austin, Department of Chemistry, Austin, TX 78712.

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Biographical Information

1*SURNAME* _____ 2*FIRST & INITIAL* _____ 3*TITLE*(Dr., Mr., Ms.) _____

5*SEX* _____ 7*HOME STREET ADDRESS* _____

8*CITY, STATE* _____ 9*ZIP CODE* _____ 10*DATE* _____

11*PHONE* _____ 12*PROFESSIONAL GROUP*(Industrial, Academic, Self-Employed, Other) _____

13*131*COMPANY OR INSTUTION* _____ 132*STREET OR PO BOX ADDRESS* _____

133*CITY, STATE, ZIP* _____ 134*BUSINESS PHONE* _____ 135*DATE* _____

14*141*DEGREE* _____ 142*DEGREE DATE* _____ 143*DIVISION*(Anal, Biochem, Inorg, Org, Physical) _____

144*FACULTY MEMBER ASSOCIATE WITH FOR DEGREE OR INDIVIDUALIZED INSTRUCTION _____

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Professional and/or personal news about yourself for inclusion in the Spring 1982 edition of the newsletter.

Comments regarding the newsletter and suggestions for what you would like to see included in future editions.

Reprints. Please send me reprints, if available, of recent publications of the following faculty member(s): _____