

Department of Chemistry
College of Arts and Sciences
474-2739

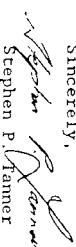
Dear Alumni:

At last we have managed to produce another newsletter. We hope you will find this to be interesting. We know that we have not acknowledged the achievements of many of you. We are new to the information gathering business. Please send us information which you feel would be of interest to your fellow alumni and we will make sure it gets into the next newsletter.

We appreciate the support that our alumni give to our program. We are able to offer scholarships on a regular basis and also provide for the financial emergencies that sometimes occur in a student's life. Please make sure that donations to the foundation are restricted to the Chemistry Fund.

We hope that our records are accurate. Please drop us a line to keep us up-to-date on your activities, or better still, pay us a visit.

Sincerely,


Stephen P. Fanner
Chairman/Editor

Production Staff:
Diana L. Walter
Tanya L. Streeter

DEPARTMENTAL NEWS

For Your Information

The number of students taking general chemistry continues to grow. General chemistry is a requirement for the new pre-engineering program and this program is expected to grow quickly. The nursing department is about to initiate a four year nursing degree program and we will be offering a one year course in general, organic and biochemistry specifically for this program. All the chemistry faculty have now been involved to some extent in teaching general chemistry.

The number of chemistry majors is still low. The percentage of graduates pursuing higher degrees is increasing. In addition to the new equipment described, the chemistry courses are making greater use of computers. These are used for molecular modeling, quantum mechanical calculations, spectra simulation, and a variety of teaching programs. Chemistry majors are also required to do on-line literature search, to use the computer as a word processor for laboratory reports and to use spread-sheet programs for repetitive calculations.

Short Course Successful

The Chemistry Department held a two-day workshop on March 24 and 25, 1988 for Community College Chemistry Instructors. A total of 19 chemistry instructors attended the workshop.

The topic for this workshop was Modern Instrumentation and Computer Simulation of Instruments. The Modern Instrumentation portion consisted of theory and hands-on experience on the Hewlett Packard High Pressure Liquid Chromatography, the Perkin-Elmer Fourier Transform IR and Perkin-Elmer Lambda 4 UV, the IBM NR80 Nuclear Magnetic Resonance Spectrometer and the Perkin-Elmer Gas Chromatograph-Mass Spectrometer. The Computer Simulation section used commercial programs and programs the Chemistry Department has written to simulate NMR and IR operation and spectra.

Doctors Birdwhistell, Chang, Gurst and Tanner provided instruction with the assistance of Phil Conklin and chemistry seniors.

New Equipment

This year we purchased three major instruments. A Perkin-Elmer 1700 F.T. IR has replaced the old Perkin-Elmer 621. (HCl and DCl Spectra can now be measured in about 10 minutes). We also purchased a P.E. Lambda 4C UV-Visible instrument which is controlled by the same data station as the F.T. IR. Thanks to a National Science Foundation (NSF) grant (from a proposal submitted by Dr. Chang) we have a Perkin-Elmer GC/MS system. This has a Finnigan Ion trap detector and can also be used as an independent G.C. with an F.I.D. detector.

Dr. Chiu has submitted a proposal to NSF for the purchase of modern thermoanalytical equipment. (We are still using 1967 apparatus).

FACULTY NEWS

Grace Chiu

Dr. G. Chiu is hard at work teaching Instrumental Analysis and Analytical Chemistry. Keeping busy with these courses, Dr. Chiu says she is still trying to catch up from last summer's vacation. She will be spending this summer at Florida State University in a summer research program.

FACULTY NEWS

Stephen P. Tanner

After teaching analytical chemistry over a short semester last summer Dr. Tanner spent 5 weeks in England visiting family and friends. He is now back teaching General Chemistry and Inorganic Chemistry. This coming summer he will be teaching the first half of both General Chemistry and Organic Chemistry I. After this, he expects to visit that exotic lakeside city of Cleveland, Ohio where his daughter will be participating in a summer violin program.

Dr. Tanner coauthored a paper on Manganese (II) phosphine complexes published in Inorg. Chim. Acta and had another paper accepted for publication.

Walter H. Jones

Dr. Jones is conducting quantum chemical calculations for the Naval Surface Weapons Center. His current studies concern metastable polymeric materials at high pressures under the S.D.I. (Star Wars) program.

Jerome G. Gurst

Last semester, Dr. Gurst taught a course in structure determination, which has changed immensely in the past few years. Molecular mechanics and molecular modeling has been introduced into the course, and all instruments from IR's to UV's to NMR's are operated by the keyboard on a computer.

During the Fall semester 1987, Gurst was involved with the pre-medical/pre-dental/pre-vet programs and especially the Program in Medical Sciences (PIMS) which is jointly offered by UWF-FAMU-FSU- and UF College of medicine.

This semester he left the University to teach a graduate course in stereochemistry at the University of Nevada in Reno.

He has enjoyed visiting with many UWF Alumni last year at various times and places. These included:

Joe Knorr - '87 Jim Stanfield - '81,
Lucy Combs - '86 Dave Shrout - '85,
Leo ter Haar-'80 Arthur King - '69.

Dr. Gurst would like to congratulate Dr. Thomas H. Pyritz who attended UWF in 1978-79 to prepare for dental school. After receiving his DDS, Pyritz opened his own practice at 1082 Highway 90E in Pace, Florida.

Dr. Gurst will be visiting Dr. Birdwhistell in Australia this summer before returning to teach the second half of general inorganic. Next spring semester he will be on sabbatical at Emory University.

William H. Halpern

In addition teaching Organic Chemistry, Dr. Halpern is still supervising Science Seminar for Superior Students, a weekly lecture program for high school students. The Mobile Science Laboratory, a converted city bus containing a series of integrated science experiments for high school students is still traveling to high schools in the panhandle region. These activities are just two of the projects supported by the Panhandle Center of Excellence in Mathematics, Science, Computers and Technology, a joint venture with FAMU. Halpern has also become involved in a military certification project to advise retiring military personnel who have the desire to become science and mathematics teachers.

Dr. Halpern will be busy this summer giving his time to a Santa Rosa Summer Institute, a Summer Institute in Environmental Studies and a National Committee on Computers in Chemical Education Workshops East. The CCEE Workshops East will be held at UWF August 7 - 11, 1988. If you have access to FIRNCOM, call Dr. Halpern at mail stop WILLIAM=HALPERN for more information.

Clifford Chang

Dr. Clifford Chang received a National Science Foundation grant last fall for a gas chromatograph-mass spectrometer at UWF, which will be used for both teaching and research.

His research in natural product chemistry was published in the Journal of American Chemists during 1985 and 1987. He returned to the University of Hawaii over the holidays to prepare another manuscript and chapter on naturally occurring isocyanic and related compounds from Australian Sponges.

Over the summer, Chang along with Sam Parsons (UWF 1987 graduate) uncovered new nylon stainblockers at Pensacola Monsanto's Technical Center. The discovery resulted in a coauthored, company-confidential report on Monsanto's Stainblocker which is competitive with Dupont's Stainmaster.

At the University, Chang was among the six faculty members who made the final decision on the third president at UWF, Dr. Morris Marx.

Ralph Birdwhistell

Dr. Ralph Birdwhistell, Professor of Chemistry, has accomplished many outstanding achievements this past year. His work at the University of Waikato on "Demonstrations and Experiments which Introduce Energy Transformations" has resulted in a paper in the Journal of the Australian Association for Science Education and a presentation for the New Zealand Science Teachers Association.

Other research done by Birdwhistell on "Alternate Frameworks" or "Preconcepts" resulted in an invitation to lecture at the 1987 2YC3 National Convention - "Preconcepts, Concepts, and Chemistry."

Birdwhistell plans to go to Monash University, Melbourne, Australia, to research "Problem Solving" and "Preconcepts in Chemistry" with Peter Fensham and Richard Gunstone. On July 2-7, Birdwhistell will make a presentation for ICASE in Canberra. In August, he will lecture on "Teaching Chemistry through Pop Corn" at the Biennial Chemical Education Conference at Purdue University. Looks like a busy summer for Dr. B.

Pamela Tanner

Ms. Tanner has been promoted from storekeeper to stores manager. She is a graduate of San Diego State University with a B.S. in Biology, Emphasis Botany. Her additional training has included Organic I and II, Physical Chemistry I and II, Analytical Chemistry, Experimental Chemistry II, and the Women in Science Seminar at Mt. Holyoke College. At present she is working toward another B.S., this time in chemistry.

CONGRATULATIONS TO PAMELA AND DAVE
TANNER FROM THE DEPARTMENT OF
CHEMISTRY. PAMELA GAVE BIRTH TO
CHRISTOPHER NASH, 6 POUNDS, 8 OUNCES,
MARCH 15, 1988.

Patricia Riehm

Mrs. Riehm, adjunct instructor, will continue to teach the general chemistry lab and organic lab this summer.

Philip Conklin

In addition to his duties as Manager of Laboratories, Phil has taught General Biology Laboratory. He has saved the department many thousands of dollars by servicing the NMR and other instruments.

Peter Greaney

Peter Greaney became master of the Center of Excellence's Mobile Science Laboratory in October 1986. Since then, Greaney has steered the bus to over twenty schools in Northwest Florida, several teacher workshops and a professional meeting in Clearwater, Florida. Other than a very expensive transmission along with a night in an I-10 rest area, Greaney says the show has run smoothly.

While the bus is at port, Greaney has been redesigning the laboratory format to use in middle schools.

Aside from bus activities, Greaney has contributed his time in conducting coastal field trips for teachers from or in Pensacola and New England, teaching part of a workshop for Santa Rosa County Science teachers, teaching a science education course at UWF and writing a new manual - "The Busdriver's Blues Guide."

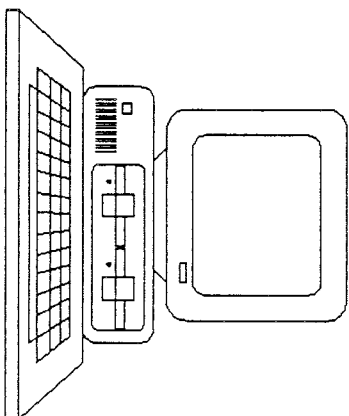
Greaney says that "Overall, it's been a good year and I'm happy to be here."

Diana Walker

Departmental Super Secretary now works with 3 different word processing programs, Lotus Symphony (for department record keeping) and several graphics programs. Diana expects to spend her summer vacation with her family in New London, CT.

Tanya L. Streeter

As secretary for the Panhandle Center of Excellence, Tanya has had many opportunities to use her degree in English to assist the department. She has assisted on this newsletter and will be offering her services for the next edition of the chemistry newsletter.



ALUMNI NEWS

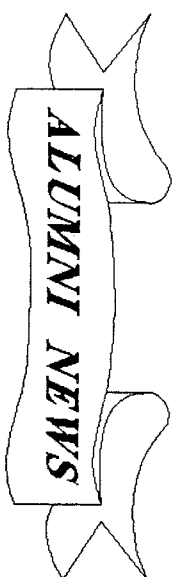
Larry Manziak (1970) is now Senior Research Fellow for Rohm and Haas Company in Pennsylvania.

Marion H. "Skip" Cates (1971) works for Honeywell, Inc. in Largo, FL. He has been awarded a patent for a Sorption/Desorption Gas Analysis Apparatus.

Wayne Richardson (1971) has been promoted to Corporate Vice President of Research & Development for C.P. Chemicals, Sumter, S.C.

Faye Bowers (1971) has sold her company, Pioneer Laboratories, Inc. to ERC International of Fairfax, Virginia. ERC International is a professional and technical service firm used by government and industry. Ms. Bowers started Pioneer in May of 1979 and has 36 employees to date. Though she has sold the company she still retains ownership of the land and building and will continue to manage operations.

Richard Miller (1972) has been promoted to Senior Research Fellow at Monsanto Fibers and Intermediates Company in Pensacola.



ALUMNI UPDATE

(If our current information on you or another former student that you know is not correct, please fill out and return).

Name _____ Maiden _____
Address _____ City _____ State _____ Zip _____
Employer _____ City _____ State _____ Zip _____
Higher Degree _____ Graduate School _____
City _____ State _____ Zip _____

OUR NEXT NEWSLETTER WILL BE OUR 20TH ANNIVERSARY ISSUE!

Do you have some interesting information about yourself that you want to share with others? (Degrees obtained, papers written, etc.)

ALUMNI NEWS

Lois Dixon (1976) will be teaching Analytical Chemistry this summer at UWF as an Adjunct Professor. She received her Masters from Duke University and her Ph.D. in Analytical Chemistry from the University of Florida. She was the 1976 Monsanto Award Winner.

Mark E. Ates (1976) has received his M.D. from the University of Miami School of Medicine.

Thomas Strickland (1976) is now working for Amgen, Thousand Oaks, California. He has been involved in the isolation and characterization of recombinant erythropoietin (EPO) for commercial purposes (see C&E News, Feb. 22, 1988, & Biochemistry, 1987, 26, 2633).

Rand Pombier (1977) - MS, University of Houston

Robert D. Mariani (1983) - PhD, Cornell University

Steve Nolan (1983) - PhD, University of Miami

Steve Thompson (1984) - MS, University of Florida

John Pace (1985) - MS Chemical Engineering, University of Florida

IN MEMORIAM.....

Robert L. Worth, 1983 Alumnus, died in an automobile accident on Tuesday, April 5, 1988. Funeral services were held on Saturday, April 9. Mr.

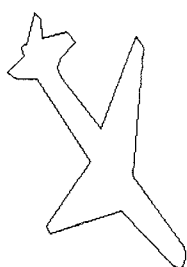
Worth was a native of Indiana but had been residing in Milton, FL for the past 9 years. He is survived by his wife, Sandra; daughter, Monica; and two sons, Robert and Christopher.

THE DEPARTMENT OF CHEMISTRY OFFERS ITS
CONDOLENCES TO THE FAMILY OF ROBERT L.
WORTH.

ALUMNI SCHOLARSHIPS

The following students received
scholarships from funds donated by
chemistry alumni:

H. Thomas Etheridge	- Gulf Coast Com Alumni Scholar
Jennifer A. Leupin	- UWF Lower Div.
Julie M. Rossing	- UWF Lower Div.
James Puckett	- Gulf Coast Com
Todd Lafrenze	- Gulf Coast Com
Kelly Reinhardt	- OWCC
Kathryn Lawrence	- OWCC
Richard Longoria	- PJC



GOING PLACES

1987 GRADUATES

Elizabeth Brasington is now in the chemistry graduate program at the University of Florida, Gainesville, FL. A native of Altha, FL, she attended Chipola Junior College prior to transferring to UWF. Beth was the recipient of the 1987 Merck Index Award.

Brandon Cruickshank is now at the University of Illinois in the chemistry graduate program. He was the 1987 Monsanto Award winner. Brandon transferred to UWF from Duke University.

Joseph Knorr is a graduate student in Chemistry at Virginia Polytechnical Institute, Blacksburg, VA.

Sam Parsons is a graduate student in Chemistry at the University of Texas. Mr. Parsons assisted Dr. Clifford Chang during the summer of 1987 and uncovered a new nylon stainblocker at Pensacola Monsanto's Technical Center.

Dawn Sorenson is presently living in California with her husband.

Marks Weeks is now a graduate student in Chemistry at Emory University, Atlanta, Georgia.

1988 GRADUATES

Vicki Conner, of Pensacola, will reside in her hometown. Her plans are tentative at present but she hopes to go into the local industrial workforce.

H. Thomas Etheridge, III, of Panama City, FL, has accepted a NSF Fellowship and will be attending the Univ. of Chicago. He is the 1988 recipient of the Alumni Scholarship and the winner of the Monsanto Award.

Mr. Etheridge did summer research on a LANDO-SOHIO fellowship at the Univ. of Minnesota. His research dealt with Dynamic Solvent Effects. Mr. Etheridge was the 1987 Vice President of the UWF American Chemical Society.

Brian Hammonds, of Panama City, FL, received an award for being an Outstanding Teacher Education Student. He is looking presently for a position in the Florida Panhandle.

Jennifer A. Leupin, of Cali, Colombia, has accepted a teaching assistantship and research fellowship at the Univ. of North Carolina, Chapel Hill. She is the 1988 recipient of the Merck Index Award.

Ms. Leupin did summer research on superconductivity at Florida State University. She is also President of the UWF American Chemical Society and recipient of a scholarship made available by the chemistry alumni.

1988 GRADUATES

Karen E. Mallery, of Shawnee, KS, will be married on July 2, 1988 to Ensign John Stuart Wadsworth in Overland Park, Kansas. Following the wedding, the couple will reside in Norfolk, VA. BEST WISHES TO KAREN AND JOHN FROM THE FACULTY, STAFF AND FRIENDS OF THE CHEMISTRY DEPARTMENT.

Jackie Patti, of St. Petersburg, FL, has accepted a teaching assistantship at the University of Lowell, Massachusetts. She made the National Dean's List in 1987.

Julie M. Rossing, of Gulf Breeze, FL, heads to Florida State University, Tallahassee. She has accepted a teaching assistantship and has received an academic scholarship. Miss Rossing is a member of Phi Eta Sigma, a Freshman Honor Society and was a recipient of a scholarship made available from funds donated by chemistry alumni.

Spence Slattey, Pensacola, FL, will be going to Florida State University. He has accepted a teaching assistantship.

CONGRATULATIONS TO ALL 1988 GRADUATES!

UWF ACS 1987-88 SEMINAR PROGRAM

"Binding and Activation of Molecular Oxygen", Dr. R. S. Drago, University of Florida. (Sponsored by the Univ. of Florida)

"A Swept-Potential Electrochemical Detector for H.P.L.C.", Dr. P. E. Sturrock, Georgia Institute of Technology. (Sponsored by Georgia Tech)

"Room Temperature Superconductivity", Dr. Morrobell-Sosa, University of Alabama. (Sponsored by Univ. of Alabama)

"MS/MS, A new Dimension in Mass Spectrometry", Dr. Gary Glish, Oak Ridge National Labs. (Sponsored by Oak Ridge Associated Universities)

"High Pressure Metastable Materials and S.D.I.", Dr. Walter H. Jones, University of West Florida.

"Tiny Time Pills and All That Stuff: The Chemistry of Drug Delivery Systems", Dr. David Kashdan, Tennessee Eastman Company. (Sponsored by Visiting Industrial Scientists Program)

"Stainblocker - The Right Stuff", Mr. G. Mclellan, Monsanto Company, Pensacola, Florida.