

University Of West Florida

Chemistry Department News

Charting a Course in the Pursuit of Science

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Departmental Scholarship Awards for 2006-2007



Julia Balazh, Birdwhistell Scholarship Awardee

The Department of Chemistry has awarded \$13,000 in scholarships for the 2006-2007 academic year to ten undergraduate chemistry students. Julia Balazh and Tyler Butler have been awarded a Ralph K. Birdwhistell Scholarship. To be selected for this prestigious award, a junior or senior chemistry student must show a potential to make substantial contributions in the field of chemistry. Dayoung "Diane" Ann has been named the first Grace Po-Yuen Chiu Scholar, an honor that is intended for outstanding international students in chemistry. Both scholarships are funded by endowments which honor founding members of the UWF Department of Chemistry.

Departmental Scholarships
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News from the Department

by Pam Tanner

The 2005-2006 academic year was a very busy year. Hurricanes continued to be a problem during the past year. Pensacola suffered a direct hit from Hurricane Dennis in mid-July (all UWF classes were closed for a week). We received only moderate effects from Hurricane Katrina in September (all UWF classes were closed for two days). UWF was very active in the Katrina relief effort by raising money, supplies, etc. In addition, several faculty members from universities affected by Hurricane Katrina temporarily relocated to UWF. The Department of Chemistry provided office spaces and resources to Drs. Kurt and Theresa Birdwhistell for several months while they were getting things back in order. We wish them the best as they try to get their lives and careers back on track.

After more than 20 years, Diana Walker left the Department of Chemistry to assume the position of office manager in the Computer Science Department. We were very fortunate to "steal" Cindy Williams away from the Registrar's Office. Cindy has been working at UWF for more than 20 years, and has been doing a great job in her new role.

The Department received some new instruments and upgrades on several key pieces of equipment during the past year. A new Jasco HPLC was purchased to replace an HPLC system that was damaged during Hurricane Ivan. With some remaining Hurricane Ivan repair money, we received a complete upgrade to the electrochemistry equipment that included new software, computer, probes, etc. We have worked out an agreement with the Center for Environmental Diagnostics and Bioremediation (CEDB) for use of their GC-MS. Currently, we have assumed responsibility for the CEDB GC-MS, and it is housed in our main instrument room giving students access to two GC-MS's; one with an autosampler system, and the other with a direct insertion probe. The GC-MS units have also received upgrades that involved new hardware and software. The Jasco J-710 was upgraded as well.

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Chairman's Letter

by Michael Huggins



Wow, what a year!! My first year as Chair of the Department has been such a wonderful experience that I hardly know where to begin. The University appears to have finally recovered from the enrollment drops due to Hurricanes Ivan and Dennis. The Department continues to see growth in our courses as well as in the number of chemistry majors – both at all time highs. Our new degree programs have increased our ability to recruit new chemistry majors.

During the past year, we have conducted two successful searches for new faculty members. Dr. Sirvent departed for a position at Vanguard University in Southern California and we opted to fill a void in analytical chemistry by hiring Dr. Pam Vaughan to replace Tara. Pam was

a visiting lecturer during the previous year, but started the Fall 2006 term in a permanent tenure track position. In addition, we hired Dr. Glenroy “Dean” Martin to fill the visiting lecturer position vacated by Dr. Vaughan. We are very excited to have both Pam and Dean join the department.

The Department has continued to increase our undergraduate research activities as shown in articles elsewhere in the newsletter. In addition, we are also taking a very close look at the mentoring opportunities provided to our students. In general, we think we can improve the mentoring for students who will be joining the workforce after graduation. In this light, we have initiated two programs. First, the Student Affiliate ACS at UWF (Chemistry Club) has partnered with the Pensacola Section of the ACS to provide opportunities for the students to interact closely with industrial chemists. These interactions should allow students to gain a better understanding of what life is like as an industrial chemist, what career opportunities are available, and much more. In addition, the Student Affiliate President now has a permanent position on the Executive Committee of the Pensacola Section to help the two groups work closely together. Secondly, the Department will sponsor several mentoring luncheons each semester for students to participate in a “round table” discussion with industrial chemists. Thus far, we have had two wonderful luncheons where students meet with a group from Solutia (many of whom were UWF Alumni) and with Larry Manziek (BS, 1970).

Cosette Serabjit-Singh (BS, 1972) delighted us with a return visit to Pensacola in November 2005 when she presented an outstanding seminar on Drug Disposition that was very well attended. Cosette was also the guest of honor at a student luncheon entitled, “Women in Science.” Female students taking chemistry courses (chemistry and biology majors alike) were invited to attend and participate in the discussions. Michael Summers (BS, 1980) visited to present lectures to the University community on the phenomenal diversity programs at the University of Maryland, Baltimore County, as well as his very successful research program. In addition, Alan Schrock (BS, 1979) presented an excellent talk about the exciting research being conducted at Dow. As you can see, alumni continue to give their time in order to help the Department provide students with a quality educational experience, and I appreciate that very much.

We are slowly preparing for Peter Tanner’s and Jerry Gurst’s departure next year into what we hope will be a long and happy retirement. We should begin having the new faculty in place very soon. The “Founding Fathers” (Birdwhistell, Chiu, Tanner, Chang, Gurst, and Halpern) have established a very high-level of expectations for the current generation of faculty. I see it as my job to ensure we maintain a quality program in Chemistry which builds upon the rich history of the Department.

Finally, we have undertaken a complete overhaul of our website. The new website was unveiled in May. We have added a page for alumni news, so please drop us a note if you have something you would like to share. I am always happy to hear from alumni. If you are in the area, make sure you stop by to see us. Good luck in the coming year!!

New Faculty Profile



Glenroy “Dean”
Martin

Visiting Lecturer

I am a graduate of the University of the West Indies at the Mona campus in Jamaica where I completed both my BSc in Special Chemistry (1996) and my PhD in Organic Chemistry (2003). My graduate work included the phytochemical analysis of the plants *Stemodia maritima* (Scrophulariaceae) and *Salvia coccinea* (Lamiaceae); the preparation of analogues of certain natural products; the fungal biotransformation of these secondary metabolites and their analogues as well as the development of an active site model of a cytochrome P450 enzyme system within the fungus *Rhizopus oryzae* ATCC 11145 (formerly *Rhizopus arrhizus*). In addition to my research activities I was granted the opportunity to teach Organic Chemistry in the undergraduate program.

After completing my PhD work I began my first postdoctoral position in the fall 2003 with Dr. William Fenical at the prestigious Scripps Institution of Oceanography (SIO), University of California, San Diego, CA. My research examined the isolation and characterization of novel bioactive marine natural products from sponges as well as from actinomycetes obtained from sediment samples. Apart from the success in my research, the year 2004 was considered special to me because this was the time my lovely wife Teresa gave birth to our beautiful daughter Tahira.

My brief exposure and new found love for the field of marine natural products led me to pursue a second postdoctoral appointment with Professor Russell Kerr at Florida Atlantic University (FAU) in the fall of 2005. While at FAU, I conducted research on the isolation of bioactive natural products from soft corals, cyanobacteria and other marine bacteria.

Having completed my research position, my family and I moved to Pensacola where I became a visiting faculty member in the chemistry department at the University of West Florida in the fall 2006. My current research interests include the fungal biotransformation of bioactive compounds from medicinal plants and marine sources such as sponge and soft corals. Future work will examine the isolation of bioactive compounds from marine bacterial isolates.

When not teaching or conducting research, I like to engage in fun activities with my family. This may range from occasional pillow fights to attending musical and other theatrical performances. Spending quality time with young people is also something that I enjoy doing as it gives me the opportunity to impact their lives in positive way.

In Memoriam

Dr. Grace Po-Yuen Chiu *1938 - 2006*

We regret to inform you that Professor Grace Po-Yuen Chiu died on Saturday, March 4th, 2006 at the age of 68. Her battle with cancer began in 2002 when she was two years from beginning her well-deserved retirement. When diagnosed, she went to be with her family in Toronto, Ontario, and she received medical treatment there. Although she did visit Pensacola a few times during this period, she was sapped of energy and not able to do all the things she loved to do.

Dr. Chiu, a native of Hong Kong, received her BS from East Texas Baptist College in 1957 and was awarded a PhD in Analytical Chemistry from the University of Minnesota in 1962. After a postdoctoral year at Indiana, she taught in Hong Kong before making her home in Pensacola at the University of West Florida. Dr. Chiu was a member of the Department of Chemistry from 1968 until her retirement in 2003. At UWF, she taught analytical chemistry, instrumental analysis, and general chemistry. She conducted research in analytical chemistry and

worked with scientists at Monsanto (now Solutia) during the summers. Grace received many grants to support her activities in teaching and research which also resulted in several University awards for teaching and service to UWF. She was active in her church and supported cultural events at UWF and in Pensacola.



Dr. Chiu was a wonderful teacher who made a tremendous impact on the lives of her students and a delightful colleague for the faculty and staff. After taking instrumental analysis, "Read the manual!" should be forever etched in our minds. "She even recited that mantra to me!" reports Dr. Gurst. She will be sorely missed. A website has been established by the Chiu family so that friends and former students can share their experiences and stories (<http://www.axxent.ca/~chiумemories/>).

Chiu Scholarship Established

Professor Chiu's family has endowed a scholarship fund at the University of West Florida with a very generous donation of \$50,000 to honor the memory of Dr. Grace Po-Yuen Chiu. Grace in many ways was an example of generosity and thrift—a woman who lived an extremely modest and simple life. Grace was generous with her time by spending it with friends and family, and generous with her money as she gave much of it away to charities that helped others in difficult circumstances.

The spirit of the scholarship relates to the experience that Grace went through as a single female immigrant from Hong Kong, supporting her study entirely by herself doing side jobs. The scholarship will be awarded to help students who are serious about studying chemistry and have financial need. The intent is to give priority to the support of international students studying chemistry is so far as that is possible.

The first Grace Chiu Scholarship in Chemistry was awarded for the 2006-2007 academic year to Dayoung "Diane" Ann. Diane is an outstanding student studying in our new Bachelor of Arts program for a career in chemical education.

Additional contributions to the endowment fund at the University of West Florida in memory of Dr. Chiu are welcome. If the total amount in the endowment reaches \$100,000 with the next two years, then the endowment becomes eligible for the State of Florida matching program. At the \$100,000 mark, the State will match at the 50% level. Thus, the \$100K would become \$150K. Donations should be designated to the Dr. Grace Po-Yuen Chiu Scholarship Endowment.

UWF CH

Support The Department

Giving to the Department

We hope that you are as proud of the Chemistry Department at UWF as we are, and your continued help will enable us to move forward to the next stage of our development. Gifts from alumni and friends help to enhance the quality of our educational programs and enable us to constantly raise our standards of excellence. Since the Department offers only undergraduate degrees in chemistry, all resources have a direct impact on our undergraduate students. Specifically, funds are used in one or more of three target areas and support our teaching and research as well as offer academic enhancements for students and faculty. Every gift is significant and appreciated! In addition, all gifts to the UWF Chemistry Department are tax deductible. The UWF alumni and friends website provides more information on how to make a gift to UWF at http://uwf.edu/alumni/ALUMNI/giving/how_to_give.cfm. Be sure to indicate your gift is intended for the Chemistry Department.

Areas where your donations make an impact:

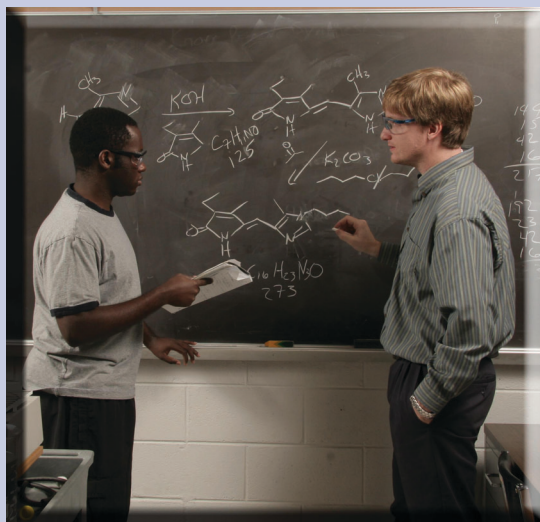
Student Support – Unfortunately, many of today's students must work to support themselves during their time at UWF. Due to rising tuition and fees and ever increasing textbook costs, student outside workloads are getting to the levels where there are major conflicts between school and work. Scholarships allow students to concentrate on their studies to a greater degree to get the maximum learning experience from their time in the Department and at UWF.

Research Support – In addition to the immediate impact donations have on the department's educational and research activities, there is the potential for a long term impact on the success rate of faculty member's research grants. Many of today's research funding agencies look at the current level of research activity in the department and the level of University and Department support for research activities, often in the form of matching funds, as major factors that influence their decisions to fund or not to fund. Thus, having funds to increase the department's research activities, and in some instances to use as "departmental matching funds", has a positive effect on our success in acquiring future funding from outside agencies such as NSF, Research Corporation, the American Chemical Society's Petroleum Research Fund, etc.

Equipment & Instrumentation - An integral and unique component of the chemistry curriculum at UWF has been and remains the students' "hands on" experience using the many available instrumental methods for analysis of chemical samples within the department. We have an extensive array of scientific equipment available for use by the undergraduates in both formal coursework and research. However, some of the instruments are rather old and in need of upgrades or complete replacement. In addition, there is some additional instrumentation that we are lacking which would make valuable additions to our educational program.

Chemistry Foundation Accounts and Endowments

Ralph K. Birdwhistell Endowment – The endowment funds Ralph K. Birdwhistell Scholarships for full time chemistry majors in honor of "Dr. B" and his enormous impact on his students, the Department, and the University as a whole.



Grace Po-Yuen Chiu Endowment – The endowment funds Grace Po-Yuen Chiu Scholarships for full-time chemistry majors in honor of Dr. Chiu and her tremendous impact on her students, the chemistry program at UWF, and the community. Preferably, the scholarships are awarded to international students.

William D. Smart Seminar Series in Chemistry Endowment – The endowment provides support a chemistry seminar series which features renowned scientists and serves to expose students and faculty to cutting edge scientific research and ideas. The endowment was started with the generous support of William and Mary Smart in 2005.

Alumni Scholarship Account – We provide departmental scholarships to deserving chemistry students based on academic performance. Students are typically chosen by a faculty committee based on performance in chemistry courses.

Chemistry Faculty Emeritus Account – In honor of the "founding members of the Chemistry Department", money contributed to this account allows Department to support awards, fellowships, and other programs in recognition of Drs. Clifford Chang and Bill Halpern for their service to Chemistry Department at UWF.

General Chemistry Account – Donations into this account allows the department to facilitate program growth and development, supplement professional faculty development opportunities, enhance classroom and laboratory technology, and many other important Department needs.

Chemistry

2005-2006 Chemistry Supporters

The Department would like to thank the following alumni and friends for their generous support during the 2005-2006 academic year. This allows us to offer undergraduate student scholarships and awards, in addition to enhancing our instructional and research activities. Thank you very much and we hope you can continue this philanthropic support.

Air Products & Chemicals, Inc.
American Chemical Society, Pensacola Section
Bergeron, Merry Jane ('00)
Birdwhistell, Miriam P.
Bradley, Daniel Evan ('03)
Calhoun, Elizabeth S. REM, CESM ('69)
Chang, Dr. Clifford W. J.
Endy, Marsha Lee ('80)
Etheridge, Dr. H. Thomas III ('88)

Galant, Joseph M. Jr. ('90)
Ging, Anthony J. ('69)
Gregg, Harold A. ('77)
Gurst, Dr. Jerome E.
Hewlett Packard Foundation
Manziek, Dr. Larry ('70)
Pombier, Rand P. ('77)
Reily, Dr. Michael D. ('82)
Ritchie, Dr. Adelia E. ('76)

Royappa, Dr. Arun T.
Skinner, Thomas L. III ('83)
Smart, Mary J.
Summers, Dr. Michael F. ('80)
Tanner, Dr. Stephen P.
Van Galen, Dr. Dean A.
Vaughan, Pamela



Summer Research

The Department of Chemistry continues to educate students through a variety of summer programs, allowing students to conduct research experiments in the fields of analytical chemistry, biochemistry and organic chemistry. The programs are funded by competitively awarded research grants, alumni donations, local companies, and other sources.

UWF students Dayoung Ann, Tyler Butler, Guilherme Cury and Katherine Davis were awarded Morelli-Quinteros summer research fellowships with the UWF Department of Chemistry. Jayme Lentz received a Women in Chemistry fellowship, and Patrick Barber and Chris Musto are working on a project sponsored by the American Chemical Society's Petroleum Research Foundation. Sarah Berrian, A.J. Burdette, Chad Dorsey, Jessica Jones, Amanda Miller and Adam Syfrett are working on projects funded by the Merck/AAAS Undergraduate Research Program, a collaborative research grant awarded to six faculty members from Chemistry and Biology.

The selected student participants spent 25+ hours per week in the research laboratory conducting experiments under the supervision of a faculty mentor. The students were also encouraged to present their research results at national and regional scientific

meetings. Many of last year's summer research participants presented posters at the 231st National American Chemical Society meeting and the annual meeting of American Association for the Advancement of Science.

The end of a wonderful summer of research was celebrated with a poster session and barbeque dinner on Aug 10th on the UWF Main Campus. Ten research posters were presented by UWF undergraduate and Project SEED students to an audience of ~70 people. Tanya Gallagher, Escambia H.S., David Florian, Pensacola Catholic H.S., and Eric Oliver, Pace H.S., presented the results of their Project SEED experiences in the research laboratories of UWF faculty members Pam Vaughan, Tara Sirvent and Michael Huggins. Seven UWF undergraduates (Jayme Lentz, Tyler Butler, Diane Ann, Katherine Davis, Patrick Barber, Josue Menard, and Amanda Miller) also presented their research results at the session.

The event was a joint meeting between the UWF Department of Chemistry and the Pensacola Section of the American Chemical Society. In addition, representatives from several local chemical companies were in attendance (Air Products, Solutia, Plasmine Technologies, and Pall Corporation). High school chemistry teachers from three area school districts were also present. This collaborative environment provided Department of Chemistry faculty and students the opportunity to interact with local professional chemists and area science educators as they strive to meet the needs of the local scientific community.

The Department of Chemistry would like to give special thanks to Air Products and the CAS Dean's Office for their generous support of the Project SEED program at UWF.

We have seen an increase in enrollment in chemistry courses and in the number of chemistry majors at UWF. This year, we also began offering our six new Bachelor of Arts tracks in Chemistry, with the following specializations: B.A. Chemistry with specializations in Education, Business, and Pre-Law; B.A. Chemistry/Biochemistry with specializations in Forensics, Environmental Science, and Pre-Medical. These new tracks are very popular and include a new basic physical chemistry course designed by Drs. Royappa and ter Haar.

Participation in undergraduate research continues to be a major priority of the department. Dr. Michael Huggins received a \$35,000 grant from the ACS Petroleum Research Fund for a project entitled "*Pyrrole Amides and Their Use as Building Blocks for the Preparation of Anion Receptors*". In addition, Dr. Tara Sirvent received a grant from the ACS to continue our efforts in Project SEED. Three high school students worked in the research labs of Drs. Sirvent and Huggins during the summer and were supported by the ACS grant, Air Products, College of Arts and Science Dean, and the Pensacola Section of the ACS. We hope to continue growing these programs.

Departmental Scholarship Awards for 2006-2007

Continued from page 1

The Department of Chemistry also awarded scholarships to Amanda Miller, Patrick Barber, Kent Reagan, Rachel Chamberlain, Sarah Genet, Guilherme Cury, and Jessica Williams. These students have demonstrated excellent performances in their chemistry programs. The Department of Chemistry faculty are very pleased and proud to be able to provide financial support to students pursuing an education in chemistry.

All scholarship awards are supported entirely from the very generous donations of alumni, faculty and friends of the UWF Department of Chemistry.

Faculty Updates

The 2005-2006 academic year was exciting and included many changes. Dr. Michael Huggins was appointed Chair of the Department of Chemistry when Dr. Peter Tanner stepped down after 25 years of service. Dr. Leo ter Haar was appointed Chair of the Computer Sciences Department while retaining his position as Professor in Chemistry.

Peter Tanner: As you might imagine, Peter is still very active even though he is no longer chair. He has just returned from a sabbatical leave where he was conducting research in the assessment of student learning at the University of Monash in Melbourne, Australia. Peter held discussions with faculty members in several departments at both Monash and the University of Melbourne. In addition, he attended seminars in the College of Education and presented a paper co-authored by Mike Huggins at the Australasian Science Education Research Association in Canberra. Needless to say, Peter is bursting

with innovative ideas to improve our courses and assessment methods.

Tim Royappa: Dr. Tim Royappa spent a fruitful sabbatical in the spring and summer of 2006. His project was an extension of previous theoretical research conducted at UWF with undergraduate students James McDonough and Vivek Suri. His current project focuses on additional mathematical functions which might serve as diatomic interaction potentials. Together with Vivek he tested a total of fifteen modifying functions against experimental data for eleven molecules! Some of these potentials performed quite well compared to previously published functions with the same number of adjustable parameters. They are in the process of writing another paper describing their results.

Pam Vaughan: We are delighted that Dr. Pamela P. Vaughan accepted an appointment to a tenure-track assistant professor position. Pam is an analytical chemist who will teach general chemistry II, analytical chemistry, instrumental analysis and others classes on the department's course offerings. Her research focuses on photochemical reactivity of natural water components including CDOM (colored dissolved organic matter) and quinone-containing pesticides. Analytical techniques such as radical-trapping are used to quantify photochemically produced reactive oxygen species (i.e. hydroxyl radical and superoxide). Future studies will examine the relationship between photochemical and bacterial degradation of these compounds.

Pamela Tanner: Dr. Pamela Tanner is kept very busy coordinating the general chemistry labs and teaching one of two large lecture courses (100+ students per section). The general chemistry labs are running at capacity in the "new" labs in building 58A. Her creativity continues to be challenged as we look for novel ways to engage beginning scientists and provide bench space for their experiments.

Tara Sirvent: Dr. Tara Sirvent resigned her appointment at UWF and has left Pensacola to accept a position at Vanguard University in Orange County, California. Vanguard is her alma mater so she has returned "home".

Jerry Gurst: Dr. Jerry Gurst continues to serve as co-chair of the 28th Gulf Coast Chemistry Conference which was held on Pensacola Beach last August. Jerry has finally finished repairing his beach house from damages received during Hurricanes Ivan and Dennis, but he has put the beach house on the market and currently lives in Dr. Chiu's old townhouse which he bought after Ivan as a "temporary" solution to the problem. Jerry is continuing to do spectroscopic measurements for a workbook on spectroscopy and serving on the Faculty Senate as he slowly prepares for his retirement after the Fall semester 2007 (along with Peter Tanner).

UWF Undergraduate Researchers at 2006 Spring ACS Meeting



Eight undergraduate research students and two faculty members from the UWF Chemistry Department attended the 231st National American Chemical Society (ACS) Meeting in Atlanta, GA March 26-30th. The students, seniors Chris Musto, Nikki Paschen, Patrick Barber, and Jason Blaney; and juniors Jayme Lentz, Kristen Richards, Lindsay Munro, and Wesley Schonborn traveled together to Atlanta. On their way, they stopped at several Universities to visit the chemistry departments where they were introduced to current graduate students and advisors and given much information concerning graduate study. On Monday, March 27th the students presented posters of their research results from their experiences in the research labs of Drs. Tara M. Sirvent and Michael Huggins.

In addition to presenting their own research results, the students had the opportunity to hear cutting edge science talks on a diverse array of topics (forensic chemistry, food chemistry, space and planetary chemistry, organic chemistry and many others) from some of the world's best scientists. This list included several Nobel Laureates in Chemistry who were also presenting at the meeting. The students also attended many of the functions social functions that are designed to allow undergraduate students to meet students and faculty from graduate schools and the chemical industry.

Wesley Schonborn and Jayme Lentz were participants in Biological Chemistry Summer Research Program sponsored by the Merck/AAAS Undergraduate Science Research Program. Patrick Barber, Jason Blaney and Lindsay Munro were participants in the 2005 Morelli-Quinteros Summer Research Fellowship Program in the Chemistry Department. Jayme Lentz was one out of 14 recipients that received a travel grant from the Women's Chemist Committee of the ACS sponsored by Eli Lilly Co. The students would like to thank the Pensacola Section of the ACS, the CAS Dean's Office, and the Undergraduate Research Awards program for their financial support.

Alumni News

From time to time, we get updates and news from many of our alumni, unfortunately not as many as we would like. Please drop us a line with any announcements that you would like to share with the department or other alumni. You can send us an email at chemistry@uwf.edu, stanner@uwf.edu or mhuggins@uwf.edu, and we will include your news in the next installment of the newsletter and post it on the Department's website. Here are the most recent tidbits from alumni.

Chris Culbertson (1991), assistant professor of chemistry at Kansas State University - Chris is the recipient of the 2006 Award for Young Investigators in Separation Science. The award is given by the American Chemical Society Division of Analytical Chemistry and is sponsored by Agilent Technologies. It recognizes young scientists who have made unique and outstanding contributions to the field of separation science. The award symposium will be next year in Chicago. It's the second honor Culbertson has received for his work this year. He also earned a \$530,000 National Science Foundation grant to develop "lab-on-a-chip" technology.

Tracy Marks (2002) - I have been working in Tallahassee with the FL. Dept. of Agriculture as a chemist since right after I graduated. I've done very well with them, and have been promoted twice in 3 years to where I am a chemist III presently. I have most definitely become a very valued employee to them. (Excerpt from email)

Allison Swilley (2004) - Recently moved to Tennessee where she will be teaching honors chemistry at Central High School in Memphis this fall.

UWF STUDENTS Hard at Work

Graduates 2005 - 2006

Jason Blaney
Angelina Sansone
Chris Musto
David Wells
Rebecca Paschen
Lyndsay Munro
Rebecca Higgins
Ray Terryn
Virginia Eller
Alan Turner
Tony Skrobacki

2005 - 2006 Awards

Freshman Chemistry Award –
Kent Reagan

**Grace Chiu Award in Analytical
Chemistry –** Dayoung "Diane"
Ann

Ralph Birdwhistell Award –
Chris Musto

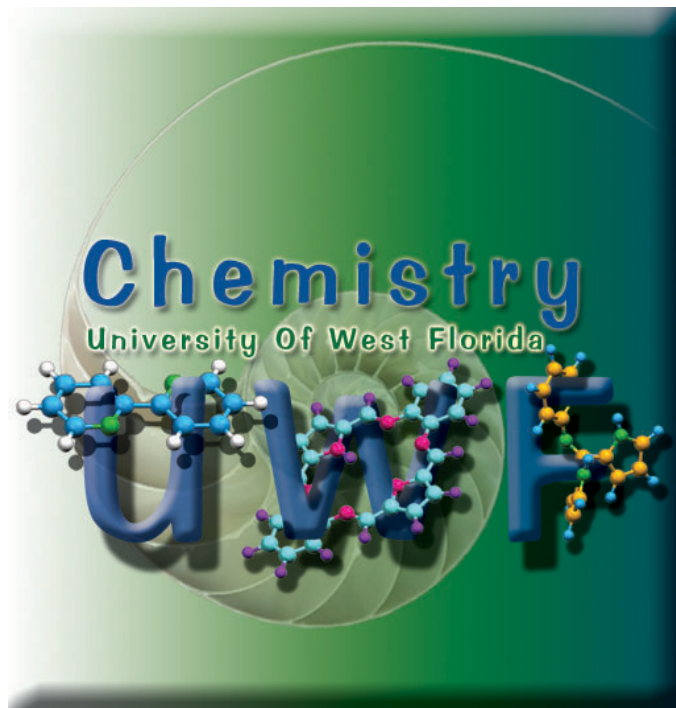
Merck Award – Jason Blaney

Senior Chemist Award –
Ray Terryn

Organic Chemistry Award –
Rachel Williams

UWF Chemistry News

11000 University Parkway • Pensacola, FL 32514



Chemistry

Department

A collage of chemistry-related images. On the left is a large, stylized nautilus shell. In the center, two students are in a lab; one is pointing at a chalkboard with chemical structures and equations, including $\text{C}_6\text{H}_5\text{NO}$ and $\text{C}_6\text{H}_5\text{NO}_2$. On the right, a student is at a computer, and another is in a lab setting. The word "News" is written in large, white, 3D letters at the bottom right.

News

University Of West Florida