

Augustana

Augustana College
Sioux Falls, SD
57197

Department of Chemistry Alumni pHilter

Spring 1999

<http://inst.augie.edu/~viste/>

Current chemistry staff

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Department Receives Pittsburgh Conference Memorial Grant

The Pittsburgh Conference Memorial Grants Program, which has been in operation for more than a decade, provides modest funds to smaller undergraduate institutions for purchase of equipment that is to be used primarily for teaching. This year the Department received one of these grants to purchase four Titronic 97 Piston Burets to be used in conjunction with four department data acquisition systems (computer with Windows95, data acquisition card, and Labtech Notebook data acquisition software) for an automated titration experiment in Analysis (CHEM 242). The student's in Advanced Analysis (CHEM 311) this fall have done the preliminary work of interfacing with Labtech Notebook via RS-232 serial communication to control the buret during a titration and to collect the titration data from a pH meter or a dipping probe colorimeter. (Two colorimeters were received from a 1990 Pittcon grant). The complete system worked smoothly for both of these projects; we look forward to trying out the systems in Analysis in Spring 99. The titrators are a welcome addition to the department. We are grateful to the Pittsburgh Conference Memorial Grants Program for the grant that supplied them.

Summer Research and Presentations

Seven Augustana students participated in Summer Research within the department last year. Four of the students were half-time teaching assistants in the laboratory coupled with half-time research experience. The other three worked full-time on research.

Rebecca Aden, a rising Senior, assisted Chem 120 labs and conducted research with Dr. Hanson. Her research topic involved conducting a Sandmeyer reaction and following the reaction using the GC-MS. Unfortunately our trusty GC-MS, a never-failing instrument for the past four years, decided to kick up its heels during Rebecca's research time. She recovered by using another GC system. Rebecca has spent Fall semester, 1998, studying in France.

John Berdahl, a rising Senior physics major, assisted both Physics 221 and 222 and did research with Dr. Vander Lugt. His project involved astronomy, and use of computer-enhanced imaging. John spent many hours in the Hills, MN cemetery with telescope trained on the heavens all night long to record planets and constellations.

Jenny Bjergaard, a rising Junior, assisted the organic labs and worked with Dr. Viste on laser light scattering of surfactant solutions, among others. A good deal of improvisation was needed to build the apparatus for this project.

John Gilbertson, another rising Senior assisted Chemistry 145 with Gene Erickson and also spent half-time doing research with Dr. Viste. The previous summer, John had catalogued and organized the department's

FT-IR polymer library. This summer, he learned how to set up and use the Attenuated Total Reflectance attachment (ATR) and found he could get exciting spectra not only of polymeric films, but also sticky residues. He used the circle cell attachment to look at solutions of surfactants. John has thus become a department expert in IR of polymers.

Steve Moeckly, a Junior, spent full time working on the NSF project with Gary Earl. Steve has the opportunity to get acquainted with the newly upgraded FT-NMR and use it to follow the rate of a quaternization reaction. In cooperation with Drew Paulson, he helped optimize the reaction conditions for a possible commercially viable process. In addition, Steve found a method to displace methyl carbonate anions with hydroxide on quaternary ammonium salts. After the frustration of attempts to filter calcium hydroxide solutions, he fell upon the idea of using anion exchange resin columns.

Drew Paulson, another Junior, also worked full time on the NSF-EPA project and got a chance to break in the new \$11,000 two-liter Parr high-pressure reactor to synthesize quaternary methyl carbonates. After perfecting that synthesis, he worked to prepare a diester amine that would be more biofriendly as a quaternary product. The esterification using acid chlorides was frustratingly poor, however Drew found that classical Fischer esterification in the Parr reactor worked well.

Dianna Wineinger, a rising Senior, worked with Moeckly and Paulson on the NSF project and undertook to perfect an HPLC method to analyze quaternary ammonium compounds. Mimicking a literature article,

results were poor. Reflecting on the literature article, she found they were not separating quaternaries from starting amines, but rather quaternaries form vastly differing molecules in a chemical formulation. Adjusting the HPLC method allowed her to separate and identify product from reactant in the quaternization process that Paulson was carrying out in the pressure reactors.

Presentations: In February, 1998, eleven Augustana students made poster presentations in the rotunda of the SD statehouse in Pierre. Four of those students were from the previous summer's work in the chemistry department: Dianna Wineinger, Mike Hanson, Drew Paulson and John Berdahl. The occasion was sponsored by EPSCOR in cooperation with the SD Board of Regents. Approximately 55 students involved in undergraduate research from various SD colleges and universities were present, so Augustana's 11 represented 20% of the total.

In April, Mike Hanson, currently graduate student at UC-Berkeley, Dianna Wineinger, Drew Paulson, John Berdahl, and John Gilbertson made presentations at the SD Academy of Science meeting held at Black Hills State U.

In May, Mike Hanson presented his NSF research at the American Oil Chemist's Society meeting in Chicago to the Surfactants and Detergents Division. An international mix was in the audience, and he received requests for copies of his presentation from individuals from Japan, the UK and Canada as well as the US. Two gentlemen from the East Coast, one a retired research director of Witco Chemical in Connecticut, engaged Hanson in vigorous

dialogue about "how you make those slides animated". They had apparently never seen a Presentation Workshop presentation. Mike was golden. Granted, the other presenters we saw simply used the overhead projector. As the only undergraduate presenter at the meeting, (others were graduate students and mostly industrial chemists), Mike raised the bar on presentations quality..

Milt Hanson is Division Chair

J. D. Thompson, Physics, served as Chair of the Natural Science Division 1992-98. In January 1998 J. D. chose to step out of this position. J. D. is retiring from Physics at the end of 1998-99. After a careful search, Milt Hanson was selected as our new Division Chair, appointed by President Wagoner to a three year term beginning August 1998. In the meanwhile, Arlen Viste served as Interim Division Chair for about seven months (following earlier terms 1976-79 and 1987-92). Congratulations, Milt!

Jetty Duffy-Matzner Joins Us Part-Time

Dr. Jetty Duffy-Matzner is teaching Chem/Phys 115, Introduction to Physical Science, during Spring 1999. Jetty taught most recently at SUNY-Cortland.. She and her husband Dr. Steve Matzner are parents of two young sons. Steve is a new tenure-track faculty member in the Biology Department. Jetty's e-mail address is duffy@inst.augie.edu

Froemke Lecture - 1998

On Friday, November 6, 1998, the Augustana chemistry community was delighted to have Dr. R. Roy Kintner return to campus and serve as the Froemke lecturer. Who else but RRK can remember all the Froemke stories from their last years in the old science building? Besides, we all needed the opportunity to find out how the last four years have been going for Dr. Kintner since his retirement from Augustana. Almost all the students had to meet him for the first time! Can you imagine his spending the last four years in Sunny California? Of course, and working half-time at California Lutheran University the whole time!! (Truth be known, we are certain Roy has been spending more like full-time there teaching labs, organizing stockrooms, instituting safety and compliance programs, etc. And there is no one more qualified or better suited for their job!)

On Friday afternoon, a reception in his honor was held in the Pendulum lounge. Numerous former students, Augie alums and current and emeriti faculty were present. "Reflections" was the title of his Froemke Lecture, and it revealed much of Dr. Kintner's life's choices regarding going into teaching, where to do that, some of the frustrations and delights of building GSC, and learning to live in it, etc. Most of the talk revealed Roy's love of people- both students and colleagues. Undoubtedly both the Chemistry department and Augustana College will long reflect the influence and efforts of RRK.

A dinner in celebration of the occasion was held in the Banquet Room at Theo's Restaurant. Of the 35 guests, more than two dozen current students were present. Truly a good day was had by all! Please return soon, Roy! Don't wait another four years.

New First Year Chemistry Majors

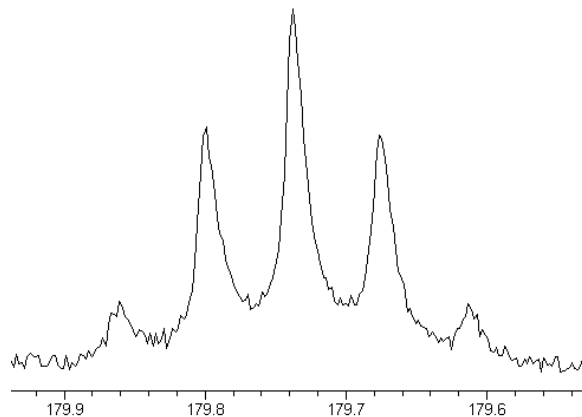
In Fall '98 we were joined by 20 new chemistry majors: **D. Scott Aberson** (Sioux Falls, SD), **David Baker** (Clear Lake, IA), **Erin Bonjour** (Clarinda, IA), **Bill Delfs** (Spring Lake Park, MN), **Ethan Englund** (Karlstad, MN), **Trina Fabian** (Staples, MN), **Kathrine Fagerhøi** (Oslo, Norway), **Heidi Grahsl** (Brooklyn Park, MN), **Tim Groeneveld** (Chancellor, SD), **Jeremy Haugen** (Fargo, ND), **Mark Helberg** (Sioux Falls, SD), **Ryan Herr** (Brandon, SD), **David Homan** (Redwood Falls, MN), **Jason Ivie** (Brandon, SD), **Sara Kock** (Chancellor, SD), **Andrea Meyer** (Brookings, SD), **Nichole Miller** (Fargo, ND), **Anne Slinden** (Sioux Falls, SD), **Andrea Szkarlat** (Burnsville, MN), and **Dominique Venzant** (West St. Paul, MN). This year six of these new students started out in Organic I (CHEM 201)!

We are actively recruiting for next year, so if you know of any potential chemistry majors (or others students that may be interested in Augustana), direct them our way or let us know. We will follow up individually on these prospects.

NMR Upgrade

In the Spring 1997 Newsletter we reported the happy news that Gary Earl received a very significant research grant from NSF/EPA, "Preparation of More-Biofriendly Quaternary Ammonium Compounds and their Decomposition to Useful Reagents". This included funds to renovate our old Hitachi NMR, converting it into a FT unit with new control unit and computer. The equipment funds require a 50% match, and Augustana has kindly supported the first part of the conversion, which took place in December 1996. This technology comes from **Anasazi Instrument Co** of Indianapolis. At that time we indicated that we hope to complete the conversion with a C-13 probe and also other nuclei later. We have 50% of the funds to do so from the NSF grant.

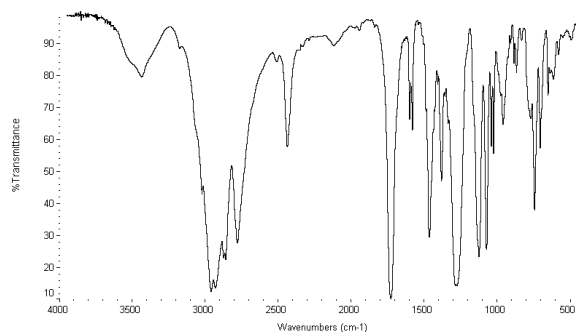
This has now come to fruition. In late August 1998, Anasazi installed the additional hardware and software to do ^{13}C and 30+ other nuclei, including ^{31}P , ^{11}B , and ^{29}Si for example. During January 1999 Arlen Viste spent a productive Interim Leave testing the multinuclear capabilities of this Anasazi EFT-60 FT-NMR instrument, now with a magnet from a Varian EM 360A. Here is a sample ^{11}B nmr spectrum of the BF_4^- ion, showing the spin-spin coupling of the four ^{19}F with the ^{11}B nucleus. Thanks to Gary and matching support from Augustana, we now have splendid multinuclear capabilities to use in courses and student-faculty research.



New Nicolet FTIR

In late August 1998 we also took delivery on a new Nicolet Avatar 360 FT-IR ESP. This was purchased with funds from the Roland Wright Chemistry Endowment and gifts to our department from alumni and friends. Thanks to all whose generosity helped with this project. The Wright endowment was described in last year's newsletter. Our IBM Instruments IR/32 FTIR is still working too.

We put the Nicolet FTIR to work immediately in courses in Fall 1998, including Gary Earl's 1 credit FTIR Instrument Proficiency course. Here is a spectrum of Tygon polymer B-44-4 from one of the spectral libraries, related to interesting student work in Milt Hanson's Interim 99 course in The Chemistry of High polymers.



Augustana Chemistry Alumni Class of 1989

Anita (Eich) Leslie

Anita was working for Hy Vee Groceries when she was a student at Augustana and is now the Hy Vee's personnel manager for Sioux Falls. Anita is married to Mike Leslie and they have three lively boys aged 5 years, 3 years, and 2 months. Mike works for Dakota King but in the summer this enterprising couple operates their own ice cream truck. They serve ice cream and snow cones at picnics, festivals, parties and celebrations in Sioux Falls and all around. Busy as they are, they find time to go to Disney World each year and enjoy skiing in Colorado in the winter. 4700 East Belmont St., Sioux Falls, SD 57110-4238, (605) 371-3607

Susan Lyman

Susan attended the University of California-Berkley and received the PhD in molecular and cell biology in 1996. She then moved to a post-doctoral fellowship at Scripps Research Institute in La Jolla, CA and she is now a research associate at Scripps. 8400 Via Mallorca, Apt K, La Jolla, CA 92037-2616, slyman@scripps.edu

Tim Malling

For the past 2.5 years, Tim has been practicing family medicine in Paynesville, MN. He is in a clinic with seven other physicians serving a village of 2400 persons and the surrounding area. Following graduation, Tim attended medical school at the University of Minnesota-Duluth for two years, spent a year in a family practice clinical site in Crookston, MN and finished up at UM-Minneapolis, earning the MD in 1993. His residency in Family Practice

Medicine was spent in Eau Claire, Wisconsin. Tim married Laura Hanson, '89 and they have two beautiful children aged 3 and 10 months. As I talked to him, he and his father were planning to go ice fishing on a nearby lake. (*phone interview by the editor*) 29958 State Hwy 23, Paynesville, MN 56362, (320) 243-3361

Beth (Sponholtz) Muckleroy

Beth became a graduate student in chemistry at Rice University after graduation. She studied Physical Chemistry for 1.5 years and then decided that other opportunities were more interesting. One memory that she has of her Rice experience is of taking a class from Richard Smally, the Nobel Prize winner. She said that he is a great teacher. In 1991, Beth began working for Champion Technologies in their quality control laboratory. Champion Technologies makes and sells oil field production chemicals of all sorts. After a couple of years in quality control, she moved into their new analytical services division and worked there for 6 years. Along the way (to use her words) she had the experience of being married for four years (hence Muckleroy). Augustana taught her to use all experiences to their best ends. Beth is now engaged to a Canadian, Robert Cleary, and they plan to be married on March 27, 1999. She will become a permanent resident of Canada and will then seek employment. While at Augie, Beth took some art courses. She has continued to make things and has an interest in starting a craft business in her home. Apt. 1710, 2010 Ulster Road Northwest, Calgary, Alberta, Canada T2N4C2, (403) 289-5463, bethmuck1@AOL.com.

Jonathan Toso

Ten years. Ten years? TEN YEARS!!! How can it be? I'm not that old. Am I? Do you mean the persons at Augie now were in grammar school when I was at Augie? That can't be, can it? Well, let us set about bringing the chem clan up to speed in the life of one of its own.

In the fall of 1989 I matriculated to Chicago as a member of the freshmen class at the Illinois College of Optometry (ICO). That fall, winter, and spring I planned and executed a few trips to Augie to visit my bride to be: Mary Ann McConahie (I had received a positive response to an interrogative regarding the bond of marriage in July of 1989). That bond was formed in the Chapel on 11 Aug 90 and a wonderful life began.

Life took us back to Chicago where we settled into an apartment about six blocks from Loyola University's lake shore campus, at which Mary was attending a Masters of Education program. I continued at ICO. The following summer we finally took our honeymoon: to Mackinaw Island between the upper and lower peninsulas of Michigan. We highly recommend it as a vacation destination.

Mary completed her Masters on 09 May 92 and obtained gainful employ at DeVry Institute as the Director of Student Activities. I began my senior rotation and found that I could actually put all this didactic information to use.

Finally on 23 May 93 I received my doctorate. What a day!! And it wouldn't be complete without a minor crisis - I left the car headlights on. Then followed a few

moves within seven months: July 93 to Indianola, IA; Sep 93 to Owatonna, MN; Jan 94 to a house in Owatonna, MN. We really enjoyed Owatonna so much so that I auditioned and was given a part in the community theatre production of "Fiddler on the Roof". It was ten years earlier that I had been in the same play in high school. Trinity Lutheran Church needed a Director of Parish Education so Mary answered the call, thoroughly enjoying her work there. Unfortunately she was only able to enjoy her work for six months because in the fall of 94 we decided that my career was not going forward and so we took a position in Sioux City and moved AGAIN in Dec 94 - just before our beautiful daughter Rebecca Jean McConahie Toso was born on 29 Dec 94.

Life was now full of new challenges. To spice it up, in addition to raising our daughter (read Becca training us), we joined First Lutheran Church where we attended choir; performed in a Christian band; Mary took a new position as Director of Parish Education; and I served on the church council. For an Easter production the church put on the musical "Godspell" for which I resurrected the role of John the Baptist/Judas which I played exactly ten years (there is that motif again) prior at Augie in the Little Theatre. What fun!! The lady who directed that show was having auditions for a community theatre play about a men's quartet "Forever Plaid" - she encouraged me to "go for it". She cast me in the role of Smudge - who is a clumsy geek, and I screamed "typecasting" but to no avail. Mary will attest that the theatre bug bit me and the case may be terminal.

During that production Mary was carrying our second child who we met on 13 Oct 97.

Jacob Richard McConahie Toso is a joy and so much a boy. Two months prior to his arrival we made another move, UGH! But this time to a home which we adore and gives us plenty of room. However - we were/are seldom in it other than to sleep. I convinced Mary that she should tryout for a theatre production slated for the spring of 1998. The show "Taffetas and Cardigans" revolves around an upstart female quartet and a somewhat accomplished male quartet. We were both lucky to be cast and although Mary had a small case of the jitters she quickly shone in the spotlight. She really connected with her three "sisters" and has a mild case of thearthritis.

Our lives took another step this past November as I decided to "go out on my own". I am in the midst of starting a practice. Currently I am able to devote one and one-half days to its needs the remaining days find me staffing other offices to keep the Toso ship afloat.

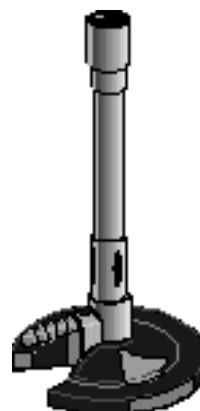
Fun is found in the lives of raising two children. But Mary, Becca, and I did manage to fly south in June to take in Disney World. For those of you who had not attended - it is well worth it. Especially if you have children - the joy on their faces is pure and it warms your heart just recalling the experience. Becca still loves to watch the video we shot on that vacation.

Ten years. Well I suppose it is possible. It seems like yesterday I was stumbling through my senior project presentation at Chem Sem, and drinking Jolt cola to stay awake and cram for p-chem. Last night I had the privilege to hear the Augie Concert Choir - and although I miss my chemistry colleagues - it is choir, which

triggers a certain chord within me. I certainly hope that the remaining four '89 chem grads (Anita, Susie, Tim, and Beth) are doing well.

Thank you for this opportunity to share a portion of our lives with you. Please call anytime 712.255.4937 or zap me at "drjltoso@hotmail.com".

Chirally yours,
Jonathan L. Toso, O.D. '89



Other Alumni News

J. A. Severson, class of 1949

Dr. Severson has retired from obstetrics and gynecology. He and his wife, Patricia, have four children. He has recovered from quintuple heart bypass surgery in February of 1996 and now manages several real estate holdings.

William R. Johnson, class of 1958

Bill retired as a Senior Research Consultant at the US Steel Research Laboratories in Monroe, PA in February of 1998 after 39 years in the Electroplating Group. He and his wife, Jean, plan to stay in western Pennsylvania doing woodworking, weaving and volunteer projects.

Larry Francis, class of 1969

Larry and his wife Rosanne both took early retirement from IBM in the spring of 1998. They purchased an RV and intend to travel around the USA and Canada, a lifelong dream for them. In July they took a course on how to use and maintain their RV - the only place they found to do this was at the University of Idaho in Moscow. They made several trips to the mountains in North Carolina during the fall and are spending the winter in Florida. Although they are amateurs at being retired, Larry says they will practice and work hard at it. Contact them by e-mail at topdoggerel@ibm.net

Steve Holmes, class of 1971

Steve and his family have been in Houston ten years where he works

with Shell Oil. Currently, he is responsible for the technical development and management of US Shell's automotive lubricant portfolio. He is also Head Office Quality Assurance representative for finished lubricants in the US. E-mail at saholmes@shellus.com or SH725451@msxwhwtc.shell.com

Bob Goltz, class of 1976

Bob Goltz and his family stopped by to visit with the department after Christmas. Bob received his PhD from University of Iowa in Biochemistry and now works for Dow Chemical in Midland, MI. He is a senior scientist in the area of separations and ion exchange. Bob's wife, Linda (Rozeboom) is also a 1976 alum.

Jody Klaassen, class of 1988

Jody has a PhD in chemistry from MIT and is a Senior Research scientist at SVT Associates, a small company located near Minneapolis. The company is involved in a number of projects related to the material growth and device manufacture of wide band-gap semiconductors, in particular, the group III nitrides. Bright blue LEDs now commercially available are based on nitride semiconductors. The company makes photodiode detectors from GaN and the related material AlGa_N; because these materials are chemically inert and resistant to high temperatures and high radiation doses, the photodetectors are ideal for use in harsh environments of dose meters for UV processing

technologies such as polymer or paint curing. There are also applications for nitride materials in high power, high temperature electronics such as high power amplifiers or high current switches. E-mail Jody at klaassen@svta.com or write to him at SVT Associates, 7620 Executive Drive, Eden Prairie, MN 55344

Jeff Jeremiason, class of 1990

Jeff had a temporary position with the Chesapeake Biological Laboratory involving a study of organic contaminants in Grand Traverse Bay, Lake Michigan. He says he learned some valuable new analytical techniques - and a lot about fish. He tentatively accepted a position at the MN Pollution Control Agency where he will be in charge of conducting contaminant research on fish in lakes in MN and Lake Superior. He and his wife, Maria, and three-year-old daughter, Emma, are looking forward to moving back to MN.

Mike Moran, class of 1990

Mike married Robin Pulscher, also a 1990 Augie grad, after his second year in medical school at USD in Vermillion. Robin taught at Corral Drive Elementary School while Mike did his clinicals in Rapid City. Mike became interested in ophthalmology and found a place in the program at Kresge Eye Institute which is affiliated with Wayne State University/The Detroit Medical Center. He and his wife are now living in Detroit - they had a baby girl named Jani on Dec 12, 1998. E-mail

at mmoran@med.wayne.edu

Dan Engebretson, class of 1991

Dan received his PhD in Chemistry from Michigan State University in the spring of 1998. He and his wife Amy have two children and are now in Fargo, ND. E-mail at akbedse@corpcomm.net

Steve Johnson, class of 1991

Steve received his Ph.D. in 1998 from Iowa State University and is now teaching at West Virginia Wesleyan College. Wesleyan is similar to Augie, and Steve says he often uses his experiences in the Augustana chemistry department as a guide to how things should be done. E-mail Steve at johnson_s@wwvc.edu

Jeanne Pfaff, class of 1991

Jeanne enjoys teaching at Winona State University in Winona, MN. She is also the director of a contract lab housed in the department, but certified by the MN Department of Health. This lab employs students to test industrial and municipal water samples. E-mail Jeanne at jpfaff@vax2.winona.msus.edu

Lynda Rasmussen, class of 1994

Lynda received her doctorate from Pacific University College of Optometry in May, 1998. In July she married Grant Jones, O.D., from Vermillion, SD. She and her husband now live at 334 E. 28th in Torrington, WY 82240.

Rich Weaver, class of 1994

Rich now works as a chemist for Halliburton Energy Services in Duncan, OK

Dayna Groskreutz, class of 1996

Dayna, a med student at the University of Minnesota, Duluth, is working on clinicals in the Twin Cities - she says she is looking forward to actually using all the information she has learned.

Nichole McKee, class of 1997

Nichole is a graduate student at the University of Georgia working on fast time resolve laser spectroscopy. She reports that her daughter, Jess, says ya'll all the time now and is really good at mimicking that southern dialect much to her mother's dismay. Nichole has learned to solder, build small electronics that handle high voltages, and to use just about any type of machinery from drill presses to band saws - check out her lab at www.arches.uga.edu/~maduncan or e-mail her at mckee@sunchem.chem.uga.edu

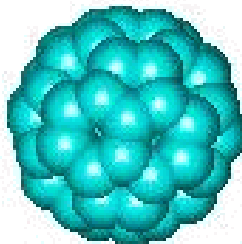
Former faculty

news from **Faryl Foster**, 1969-72

Can it really be 26 years ago that I, Marian, Jill and Kevin headed out from S.F. in our U-Haul truck? We retired from our Illinois jobs in Dec., 1992 and moved to FL for a teaching job at Pensacola Junior College (maybe you knew this). 6 1/2 years at the end of this school year and we are quitting for good. Not sure where we will live in retirement. Marian works as a student at the PJC library (almost went nuts alone at our house in the country the first year) a few hours a week. Daughter Jill is a physician in ocular plastics at Cleveland Clinic and son Kevin is still a student (currently at DSU in Madison where he is also caretaker of Marian's Mom) with about 300 credits but no degree. I guess he's happy, but is not at the right school just now. We get to SD every year but when you are not in session. We will meet again sometime.

Faryl Foster
3541 Stratford Ln
Pace, FL 32571

E-mail: ffoster@pjc.cc.fl.usa



1998 Seniors

Six chemistry majors graduated in May, 1998. Three of them had actually finished everything by December, 1997, and were mentioned in the last newsletter, but we have included an update here.

Cheryl Campbell married Eric Hage in August following graduation. Her husband will graduate in May, 1999, so Cheryl is still in the area. Her plans for this year and beyond are still unsettled.

Michael Hanson started as a graduate student in chemistry at the University of California, Berkeley in June, 1998. His summer research went well - In Mike's words: "For starters my summer of research was extremely productive, I spent my time learning how to purify and crystallize catalytic antibodies for the eventual structural determination using x-ray crystallographic techniques. ... After many sleepless nights and more than a few cups of coffee I almost have my structure completed (I used Molecular Replacement to find the phases so it didn't take very long) and hopefully in month or two I will have my name on my very first co-publication. Needless to say I'm very excited." Mike adds: "Additional news, I finally joined Raymond Stevens lab group, officially, (that's the group I worked for during the summer) the lab works primarily in structural biology and neurochemistry. As a prerequisite for joining this group I had to agree to move to Scripps Research Institute in La Jolla, California a suburb of San Diego." <hanson@adrenaline.berkeley.edu>

Janelle Uilk accepted a part time position at the Naval Research Lab in Washington, D.C. She is also a graduate student in chemistry at George Mason U in a cooperative program with her job at the Naval Research Lab. Janelle writes: "So far things are going well out here. I am usually only at George Mason for classes twice a week and seminar so I still don't know a whole lot about the school or the people in the Chem. dept. I just finished talking with the Dept. head there and it looks like I'll be able to have my Master's work all finished by the end of next summer...at least a semester sooner than I thought it would be. That was good news since I always seem to be in a hurry to get school done. I'm really enjoying the job at NRL. So far, I've gotten the GPC here in the office going and learned a few other new instruments. Our group just purchased an Atomic Force Microscope about a year or two ago, so it looks like I'll probably turn into a pretty adept AFM user. <juilk@osf1.gmu.edu>

Else Umbreit is a student in the School of Pharmacy at SDSU. <umbreit@dtgnet.com>

Lorena Welch and her husband Mike became the proud parents of twin girls, Isabelle and Desiree, born June 3, 1998. Beyond caring for the twins and their other two children, Lorena's plans are unsure.

Wyatt White Horse's graduation was the culmination of a long process for him but he persevered and is now in the School of Medical Technology at the University of Wyoming, Laramie, WY. Wyatt is scheduled to take the board exam in Jan 1999. <wyattwh@uwyo.edu>

Scholarships 1998-99

Gifts from friends and alumni provide several scholarships specifically for chemistry majors.

Chemistry Department Endowed Scholarship (gifts from chemistry alumni)

Dan Denevan, a senior from Sioux Falls, SD

Gary E. Garrett Memorial Scholarship

Dianna Wineinger, a senior from Sioux Falls, SD

John Saetveit Memorial Scholarship

Deanna Donohoue, a junior from Helena, MT

Viste Chemistry Scholarship

Jennifer Bjergaard, a junior from Sioux Falls, SD

Some Other Scholarships Received by Chemistry Majors

Chem majors were also recipients of two of Augie's most prestigious scholarships.

Tom Opheim, a junior from Ada, MN, and Dianna Wineinger, a senior from Sioux Falls, SD were awarded the **Christopherson Scholarship**.

Four of the five recipients of the **Y.T. Johnson Pre-Med Scholarship** are chem majors - Eric Klawiter, a junior from Tyndall, SD, Eric Lauer, a senior from Andover, MN, Tom Opheim, a junior from Aden, MN, and Drew Paulson, a junior from Sioux Falls, SD

Further Scholarships Received by Chemistry Majors

AAL Lutheran Campus Scholarship

Matthew Bovee, a junior from Andover, MN

Jenica Bohlen Memorial Scholarship

Steve Moeckly, a junior from Vermilion, SD

Boy Family Scholarship for Theater

Deanna Donohoue, a junior from Helena, MT

Herman P. Chilson Scholarship

Steve Moeckly, a junior from Vermilion, SD

Edwin and Cora Hanse Scholarship

Jared Likness, a junior from Britton, SD

William Randolph Hearst Scholarship

Michelle Cederburg, a sophomore from Rapid City, SD

Michel Steffen, a sophomore from Carver, IA

Adrian Helgeson Scholarship

Rebecca Aden, a senior from Omaha, NE

Dr. Harold Krueger Vespers Scholarship

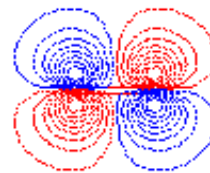
Zachary Beecroft, a senior from Wentworth, SD

John T. Vucurevich Scholarship Fund

Michelle Cederburg, a sophomore from Rapid City, SD

Carl and Hilma Youngdahl Memorial Award

Megan Schrunk, a sophomore from West Des Moines, IA



1999 Alumni File Update

What's ? (nu) With You?

Date _____

Name _____

Address _____ **City** _____

State _____ **Zip** _____ **Class Year** _____

Fill us in on what's happening in your life. New address? E-mail address? Home page? Married? Children? Change employment? Further education? Degree? Hobbies? Trips? Awards? Prospective student to recommend for Augustana? If you find that any of the information mentioned in this newsletter is inaccurate, please let us know.

Mail to: Arlen Viste
Department of Chemistry
Augustana College
Sioux Falls, SD 57197-0001

Or send e-mail to any of us.
E-mail addresses are on page 1.