

# ChE NEWS

department of chemical engineering

## FROM THE CHAIRMAN.....

**T**his past year our graduating class was the largest in the history of our department with 42 BS graduates. We also awarded 15 MS degrees and 3 PhD's. However, beginning with this school year, our graduating classes will return to more traditional numbers. We will return to the 20-25 range for BS degrees, and our graduate enrollment has dropped slightly.

The job market is excellent for all the engineering fields. Job opportunities for chemical engineers have been especially good in the electronics and the pulp and paper industries. In addition the petroleum and chemical industries have begun a recovery from domestic downsizing and are beginning to hire our graduates.

During the next two years the College of Engineering will undergo extensive remodeling of Gauss and Johnson with some remodeling of Buchanan. The remodeling will give us an updated machine shop. The Gauss and Johnson remodeling will displace much of Electrical Engineering and some of Mechanical Engineering. Fortunately, we have a new Engineering/Physics building that will accommodate much of Mechanical Engineering. However, EE will be forced to squeeze into Buchanan, and space will be tight for two years.

Our students greatly appreciate your support over the past three years for our computer classroom/study room. We have completed the remodeling of this room, converting an underutilized laboratory room with no hood and inadequate ventilation into a first-class computer laboratory. We have ten computer work stations networked together. The room is great for group design projects, computer-based instruction, and for general student team and individual use. Department alumni have supported most of the remodeling costs and the computer hardware/software costs. We are grateful for this generous support.

Two areas where we especially need your continued support are our student chapter and our process control laboratory. Our student chapter relies on your support for field trips and attendance at regional conferences. Our process control laboratory needs new carpeting, new furnishings, and additional equipment. Thanks for your past and continuing support.

-- Roger A. Korus

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## WOODY ADMASSU

1996-1997 was a good year for Woody. He received two distinguished Alumni awards, again, for Faculty Excellence presented at the UI Alumni Awards Banquet in December 1996.

Woody taught four undergraduate and graduate classes that include transport phenomena, material and energy balance and senior and graduate seminars. His research area continued to be in remediation of heavy metal contaminated soils/sludges, modeling of bioreactor for mammalian cells, and the effect of physical and chemical conditions on gas separation using polymeric membranes. He has started cooperative gas membrane separation research with MG-Generon of Pittsburg, California. Graduate students **Atul Gupta (MS '97)** and **Anand Sethuraman (MS '97)** finished and successfully defended their theses and have submitted their work for publication.

Current graduate students Bryan Pereira, Zhiqiang Yu and Tom Breese are working in the areas of heavy metal sequestration using naturally occurring apatites, effects of chemical and physical conditions on gas separation membranes, and modeling of the removal of metals from paper and pulp waste water.

Woody has continued his work with undergraduate students. Under his guidance this year, his students won second place in the International Environmental Design Contest. The topics for this year's competition were "Deployment System and Sampling Design for Underground Radioactive Storage Tanks" (TASK I), "Remediation of Radionuclide-Contaminated Aquifer" (TASK II), and "Treatment of Plutonium Contaminated HEPA Filters" (TASK III). This year's group consisted of **Abbie Parker (BS '97)**, **Aaron Newton (BS '97)**, **Eric Strand (BS '97)**, **Lynette Mischkot (BS '97)**, **Aaron Mosher (BS '97)**, **Chris Taylor (BS '97)**, **Eric Nuxoll (ChE senior)**, and the lone ME, Bill Stowe. These students competed against 30 universities at the site of the competition, New Mexico State University in Las Cruces. They won four individual trophies and \$8,000. It has become a tradition for our students to do extremely well in this type of competition, which shows the strength of our department in providing students the knowledge necessary to solve challenging problems. Woody plans and is committed to bring a new group of talented UI ChE's next year for the 1998 contest in New Mexico.

**TOM CARLESON**

This past school year, Tom spent most of his time in Moscow. Fall teaching included the ChE 541 Chemical Engineering Analysis I and ChE 501 Graduate Seminar. Spring teaching included ChE 475/575 Air Pollution Control as well as co-directing the EnvSci 401/501 Seminar for environmental science students. Tom also worked with **Peter Steinhof (BS '97)**, **Brian Preussner (BS '97)** and **Christian Maupin (ChE senior)** on a ChE 454 design project for the Idaho Pulp and Paper Division of Potlatch Corporation (Lewiston, ID mill). The students evaluated options for replacing/ renovating the current lime kiln. Potlatch employee **Brian Brazil (BS '87)** helped direct the project.

Last fall, Tom and **Ryan McMurtrey (MS '97)** attended the 1996 AIChE annual meeting in Chicago where Tom and **Dick Zollars (WSU ChE chair)** co-chaired the session on Novel Experimental Methods in Interfacial Phenomena and Ryan presented a paper on his research with supercritical fluids. Tom was also invited to attend the 1996 Exchange Conference hosted by Lewis and Clark University where he gave a presentation on nuclear waste disposal and storage.

Tom's students continue work on emissions from the UI's wood-fired boiler. MS student "**Owen**" **Yonggang Li** was joined by "**Peter**" **Pu Wang** this past spring. Owen will be completing his work on correlating opacity with dust concentration this year and Peter is working on the relationship between carbon monoxide concentrations and boiler operating conditions (work funded by the UI Facilities Engineering section). Owen and Peter were aided by **Brian Preussner** and **Christian Maupin**.

**Terry Battisti (PhD '97)** successfully defended his dissertation this summer while working at Argonne Laboratory West in Idaho Falls. Terry's work concerns lead removal from acidic wastes by ion exchange and liquid extraction (work funded by Lockheed Martin Idaho Technologies, LMITCO). Terry was aided by **Ken Swalley (BS '97)** and **Abbie Parker**.

**Ryan McMurtrey** also successfully defended his thesis work on the use of supercritical fluids to extract metals from contaminated soils (work funded by the LMITCO-MIT University Research Consortium). Ryan is currently working at LMITCO. Ryan was aided by **Shaun Miller (BS '97)** and **Patrick Carnie (ChE senior)**.

**Jeff Tiegs (MS '97)** also successfully defended his MS work on numerical simulation of droplet extraction/absorption (work funded by the EPA).

The ASPEN simulation work for LMITCO under the LMITCO-MIT University Research Consortium was completed by **Gary Lowe (BS '96)** this year and a presentation was given by Tom at the INEEL this past summer.

**DAVE DROWN**

As always, Dave had a busy year. He traveled to Nashville last October where he and Lou Edwards moderated a panel on wheat straw pulping at the TAPPI Pulping Conference. **Nichole Goeden (BS '97)**, **Ben Wood (BS '97)** and **Aaron Mosher** presented papers that were revisions of their spring '96 ChE 454 projects.

ChE 454 kept Dave very busy as he supervised 6 diverse student projects. One project involving wheat straw ammonia pulping fertilizer was presented this past October at the San Francisco TAPPI Pulping Conference

by **Jill Mays (BS '97)**. Other student design projects focused on frying oil recovery processes and biodiesel plant and pilot plant designs.

Dave and **Eric Steffensen (BS '97)** completed installation and data acquisition instrumentation of ground coil heat exchangers in homes in Lapwai and Decatur Island, as well as a new installation of a noninstrumented system in Worley.

**Kristen Lavier (MS '97)** completed her thesis under Dave's supervision. The IPC/IACCI Nutrient Release Phase I project was completed and with the help of **Kristen**, **Marya Gross (ChE junior)** and **Devin Cole (ChE junior)**. Dave successfully got Phase II funded; **Marya** and **Devin** continue to work on this project.

Summer 1997 was very busy, with Dave conducting a Biodiesel Bench Scale Demonstration at a NCATT Boise Workshop. He consulted on several water conservation and oil recovery from crumbs projects. He also found time to take his son to five swim meets and became a U.S.S. certified Stroke and Turn official.

Dave started off the Fall 1997 term by taking a group from the AIChE student chapter on a fall rafting trip.

**LOU EDWARDS**

**Dr. Shawn Gu (PhD '95)** continues his position as Lou Edwards' anchor person. He is presenting a series of lectures, demonstrations and workshops in China and Singapore in October. He and Lou are also presenting two papers at the TAPPI Minimum Effluent Mills Symposium this fall. **Barry Malmberg (MS student)** presented a paper on "Cluster Engineering Simulation Tools" at the Pacific Section TAPPI Meeting in September. **Erin Pratt (MS student)** is working on optimizing condensate stripper operation. The objective is to get maximum benefit from the capital invested. **Aaron Mosher** is at Stora Teknik in Säfte, Sweden. He is working with **Hans Lindberg (MS '83)** for one year.

Judy Kidd's on-going effort as communications director, budget manager and general coordinator of our pulp and paper activities is greatly appreciated.

**BRAD ELDREDGE**

News from the University of Idaho at Idaho Falls Chemical Engineering: Classes have begun again at the University of Idaho at Idaho Falls. Fall registration had a new twist with the U of I and ISU combining student registration, services and fee payment. This combined effort comes as a direct result of the initiative taken by UI president Bob Hoover and ISU president Richard Bowen to streamline operations in Idaho Falls; reducing duplication of efforts and making the process more efficient and simple for students. Students sign up for classes, either with UI or ISU at one location and can "mix and match" classes to meet their needs without paying additional fees. In the past, if a student wanted to take classes from both institutions, they would have to pay duplicate fees to both. The combination will benefit both universities since students can take classes from both. Registrations from ISU students in UI courses have increased since the operations were combined.

The chemical engineering program in Idaho Falls is progressing well. Two students, **Marty Lindgren** and **Jennifer Snook**, graduated with Master's degrees in May. There are

several others who are on track to graduate in December. There are eight students in the ChE 223 class this fall of which five are prospective graduate students. The program is holding its own in terms of student numbers.

Brad traveled to Florence, Italy in May to present two papers at the first annual European Conference on Chemical Engineering. He was able to take his wife, Elaine, with him as they spent a few days after the conference sightseeing in Italy. During the summer, Brad worked at Argonne National Lab - West at the Idaho National Engineering and Environmental Laboratory. His work there focused on development of waste from ceramics for encapsulation of nuclear waste.

Brad is teaching a graduate level course on fluidization with students in both Idaho Falls and Boise. The course is being taught over the UI's compressed video system to allow live, interactive participation from students in both locations. He is also teaching two directed studies courses for students who are finishing their ME degrees. Brad helped with on-campus teaching and seminars this semester; directing the ChE 433 distillation experiment, filling in for Tom Carleson for a couple of days when Tom traveled to China, and giving a graduate seminar on some of his research in September.

### **MEL JACKSON**

Mel is finally (really) retired from his office and the University (haven't we heard that before??). Activities now include: leaving shortly with Betty for their 19<sup>th</sup> Elderhostel program (Texas); encouraging grandchildren including one in chemical engineering at OSU; keep trying to beat the stock market.

### **ROGER KORUS**

For the past two years Roger has offered a course in semiconductor device fabrication. The electronics industries has been a major employer of our graduates, and this has been one of our two most popular elective courses (the other is hazardous waste management). Thanks are due to our alumni who presented guest lectures in his class including **Robert Milligan (MS '89)** of Advanced Silicon Materials, **Jennifer Cox (MS '96)** of Applied Materials, **Matt Miller (BS '97)** and **Mike VanPatten (BS '97)** of Micron, **Jim Kenny (BS '86)** of Merix, and **Geoff Gilmore (BS '79)** of Electronic Controls Design. Dr. Korus welcomes guest lecturers for next spring semester. Please contact him if you are interested. These lectures were highlights of the class. This fall semester Roger is teaching a class in engineering statistics with a very industrial perspective. Some of you will remember the course which now emphasizes design and analysis of experiments for improving products and processes.

Roger has continued his research in applications of bacteria to pollutant degradation. Most of his research is supported by the National Science Foundation. He works closely with microbiologists who identify the soil bacteria capable of degrading chlorinated and nitrated compounds. Together they determine the optimum conditions for degradation, while Roger specializes in the kinetic modeling and reactor design. Currently he is working on the microbial degradation of perchloroethylene (tetrachloroethylene).

### **JIN PARK**

Jin continues his work on the vapor phase condensation and growth of fine particles, and on the fluidization of cohesive fine powders. **Mark Sanner (PhD '97)** completed his dissertation concerning the development and application of a dynamic plasma pulse reactor for the kinetic study of vapor phase nucleation. His work is summarized in two articles recently published. **Rajeev Fedane (MS '97)** completed his work on the hydrodynamics of a single rising bubble in a fluidized bed of Group A powders. His analysis and predictions will be published shortly.

Jin's teaching now includes a session of ChE 454, the senior design class. He advised a group of four students (**Joyce Lee (BS '97)**, **Barry Malmberg**, **Troy Morris (BS '97)**, **Shawn Wilson (BS '97)**) this past spring semester and saw to it that this group completed (or, well nearly so) the design of a 50 MTPH sulfuric acid plant. Jin found it very rewarding and hopes to be able to continue his participation in the senior design class.

This year Jin won second place in the UI Golf Course's Men's League Tournament. But he placed "only" third in the inaugural UI ChE's Student Golf Tournament. His conclusion: chemical engineers are good golfers.

### **J.J. SCHELDORF**

"JJ" had a pretty standard year teaching Material/Energy Balances, Heat/ Mass Transfer and trying to keep the undergraduate laboratory organized and running. The highlight of his year was the appearance of his first grandchild. On June 25, Jay Junior's wife, Joelle, gave birth to Sabine (suh-bean) Marilyn who checked in at 10 lbs 5 oz. It is rumored that "JJ" was observed muttering that he was "too young to be anybody's grandfather." He seems to have pretty well gotten over that and is really having lots of fun with "The Bean" who is a real cute little person.

### **GEORGE SIMMONS**

George recently completed a nearly two-year stint as Interim Provost for the University. George's new position will be Assistant Vice President for Research, where he will concentrate on grant opportunities with private foundations and the national laboratories (primarily INEEL and PNNL). During the fall semester he is serving as a Scholar in Residence for Associated Western Universities in Richland, Washington.

### **MARGRIT VON BRAUN**

The Environmental Science program, now in its fourth year, has kept Margrit busy as Program Director, with 200 undergraduates and 27 graduate students. After recovering from moving the program offices to Morrill Hall, Margrit spent her third consecutive summer in the Russia Far East. This time she was accompanied by a team of seven, including **ChE senior, Stephany Burge**, and two Environmental Science undergraduates. The UI students, on exchange with Far East State University (FESU) in Vladivostok, participated in an environmental field camp with 20 Russian students. In addition to learning about microbial and water quality indicators, the UI team learned a lot about how science is done in Russia in these difficult economic times. Their large cooler of donated laboratory glassware was most welcome. The team also collected nearly 70 soil samples around a lead

smelter and mining district reminiscent of our Silver Valley. Based on the results, Margrit is pursuing funding with her collaborator at FESU to do a comprehensive investigation of exposure pathways there. She still teaches Hazardous Waste Management and Risk Assessment, trying to include more international and mixed waste issues. Last July, Margrit was the plenary session speaker

at the Health Physics Society's Annual Meeting in San Antonio. Her talk, entitled "Communications at the Extremes: What Happened to the Center?," was about what happens when risk communication is limited to extreme positions.

### Bits 'n Pieces....

**Melissa (Munderloh) Smith (BS '92)** reports that life has been very good for her and husband Bill. They currently reside in Oklahoma and Melissa will be attending Oklahoma State University for their MBA program. Melissa would love to hear from fellow graduates and can be reached at: billmel@brigadoon.com.

**Jon Spiesman (BS '93)** recently sent some email and states he is quite happy with his experience at Monsanto in Soda Springs, ID. He was promoted to Furnace Area Process Supervisor over a year ago. He would love to hear from fellow classmates. His address is: 5105 Elizabeth Street, Pocatello, ID 83202; 208-237-4452.

**Vince Tretter (MS '66)** enjoys the Internet tremendously, sending email on occasion to keep us up-to-date. He reports that he and his family became permanent residents of Texas last year, and that Vince really enjoys deer watching from his front living room window. Their daughter was married last July, and son Chris, who graduated from the UI in Wildlife Management, is working for the Washington State Fish and Game Department. The Tretters' can be reached at: HC 03, Box 1104, Marble Falls, TX 78654-9214

**Dr. Kalidas Shetty (PhD '89)**, Assistant Professor, University of Massachusetts - Amherst, Laboratory of Food Biotechnology, Department of Food Science, 340 Chenoweth Laboratory, Amherst, MA 01003

**Dr. Johan Saltin (PhD '94)** work address: Jagarvagen 18, S-892 42 Domsjo, Sweden, 46-660-53338, johan.saltin@to.mh.se

**Dr. Gunilla Saltin (PhD '94)** work address: Mo och Domsjo AB, S-891 80 Ornskoldsvik, Sweden, 46-660-75000, gunillas@randd.modo.se

**Chris Walhof (BS '95)**, Management Recruiters of Boise, 290 Bobwhite Court, Suite 220, Boise, ID 83706-3966, 208-336-2499 (fax), BOISE!CW@MRINET.COM

**Annette Potter (BS '96)**, 14340 Addison Street, Apt 110, Sherman Oaks, CA 91423

**Dr. George B. Irving (PhD '66)** and Mrs. Joy D. Irving, 1831 Orchard Avenue, Moscow, ID 83843

**Randy Kirkbride (MS '84)**, Numatec Hanford Corporation, 509-372-2115, randy\_a\_kirkbride@rl.gov

**Pat Vance (BS '85)**, 8655 Rupp Farm Drive, West Chester, OH 45069-4528, 513-942-0588 (fax), patvance@msn.com

**Rajen Doshi (MS '90)**, c/o Pacific Simulation, 121 Sweet Avenue, Moscow, ID 83843

**Dr. Yongxiang Gu**, 512 N Lincoln Street, Moscow, ID 83843

**Donald R. James (MS '77)**, PO Box 4099, Danbury, CT 06813

**Wendy (Vowel) Obenauf (BS '95)** moved to Forest Grove, OR where she began work with Merix Corporation. Matthew David was born to Wendy and Robert on September 3, 1996. He weighed in 7 lbs, 10 oz and had light brown hair and blue eyes. Wendy enjoyed a few months home with Matthew before returning to work. Robert cares for Matthew while Wendy is at work. She reports they also bought a new home, and she looks forward to hearing from her classmates. Wendy can be reached at: c/o Merix Corporation, 1521 Poplar Lane, Forest Grove, OR 97116.

**Mavriky Kalugin (BS '96)** sent a lovely postcard where he noted he is working for ARCO, Alaska and is being converted into a petroleum engineer. His address is: 3838 Indiana Street, Anchorage, AK 99503, or he can be reached at: mkalugin@aai.arco.com .

**Erik J. Nelson, MD (BS '86)** and his family live in northern Japan on Misawa Airbase. Erik, his wife Nancy, and their two daughters Emily and Aubrey, enjoy hiking and skiing in the Hakkoda Mountains. Erik is the medical director of the department of anesthesia. His research was recently published in the Journal of Clinical Monitoring.

**Heather (Johnson) (BS '95)** and **Kurt Thorne (BS '95)** have had a whirlwind year filled with their wedding, the purchase of a new home, reseeding a new yard, settling into new jobs, and of course, finding the time to have fun. Heather and Kurt can be reached at: 1400 Edith Street, Pasco, WA 99301.

**Jim Haynes (PhD '89)** currently serves as the President of the Moscow-Latah County Economic Development Council.

**Chris Sharp (BS '94)** reports that the past year has been very hectic for him and his family. Their twin sons, Joel and Aaron, will be two years old this December. Older son, Nathan, will be four and half, and seems to keep his parents quite busy. Chris works as a Yield Enhancement/Process Engineer at Micron while Amie stays at home and works. The Sharp family can be contacted at: 871 East Cougar Street, Meridian, ID 83642.

**Wenrui Yang (MS '91)** reports that his family is doing very well. His wife, Binhua is attending a local college, hoping to pick up a few chemistry courses and hopefully a laboratory position. Daughter Heidi just finished the fourth grade, and son Henry will be entering kindergarten this fall. The Yang family can be reached at: 14 Welwyn Court, Trenton, NJ 08638.

**Tamer Choudhury (BS '94)** is working with his family on their paper mill in Dhaka, Bangladesh. Tamer reports it's been a learning experience in setting up a specialty paper mill. Tamer can be reached at: booster@ncll.com or goldfish@bangla.net.

**Brian Crites (BS '92)** and wife Cathy, report that while 1996 was not the year for starting their family, they did purchase their first home. Amber (golden retriever) and Kilyon (Irish Setter) enjoy the space and freedom, scouring the nearby hills for dead animals. Monsanto is treating Brian and Cathy well. Cathy works as a Cost and Maintenance Accountant. Brian keeps "making nodules and trying to save the company money." The Crites can be reached at: 2442 Hillside Road, Soda Springs, ID 83276, 208-547-2326 (home), 208-547-4300 (work) 208-540-5352 (cellular); critter@nicoh.com (home email); bacrit@ccmail.monsanto.com (work); crcrit@ccmail.monsanto.com (work).

**Lon McDaniel (BS '80)** notes that he has been working for VECO Engineering Inc., a part of the VECO Corporation. Lon supervises the process engineering group at VECO, with 21 chemical engineers and 2 petroleum engineers directly working for him. Lon can be reached electronically at: lamc@vecoeng.com.

**Jessica Ross (BS '96) and Travis Krumsick (BS '96)** recently purchased a home in Jacksonville, OR. They are both employed at Imation, and can be reached at: 1782 Ross Lane, Medford, OR 97501; 541-772-7011; email: jross@mmm.com.

**Jeff Warner (BS '84)** settled in San Antonio, TX after spending a few months in Colorado Springs upon graduation. He has been working at one semiconductor plant for the past 11 years, which six years ago was bought out by SONY. Jeff can be reached at: Jeff\_Warner@ssa-sa.sel.sony.com; 210-647-6325 (fax); 210-647-6364 (phone).

**Dr. Terry Battisti, c/o Argonne National Laboratory - West, PO Box 2528, Idaho Falls, ID 83402-2528**

**Paul Zimmerman (MS '90)** has been working for UOP for the past two years after his division at Unocal was bought out. Paul requested a transfer to the field and has been traveling the world for the past year. He's spent some time in India, Canada and Spain, and is currently in Korea overseeing a hydrotreater startup. Paul can be reached at: 103700.2352@CompuServe.COM.

**Abhay Bulsari (MS '86)** started his own company, AB Nonlinear Solutions OY, which provides solutions to mathematical modeling problems in process industries. Abhay notes that he receives more work from Sweden than Finland, and that this is a good indicator of the economy of Finland at this time. Abhay recently chaired the International Conference on Engineering Applications of Neural Networks in Stockholm. His email address: abulsari@ra.abo.fi.

**Steve Edward (MS '89)** writes that life on the alpaca farm is indeed wonderful. He is leading the effort to achieve certification of the ISO 14000 environmental management standard at the Oregon, Colorado and California facilities. Steve and Maureen can be reached at: 9511 SW Nixon Drive, Gaston, OR 97119-7769; 503-985-1945.

**Steve Chen (MS '93)** has pursued a new research interest: ultrapure water process targeted at semiconductor wafer manufacturing. He is currently in charge of a project in Phoenix, AZ, forcing him to travel back and forth from Oregon to Arizona. Carrie is excelling as a graduate student and has earned the interest of a computer software company in Beaverton, OR. The littlest Chen, Minerva, is staying with Steve's parents back in China. They hope to see their daughter soon. Steve and Carrie can be reached at: 18953 SW Christopher Drive, Aloha, OR 97007.

**The Kirk Daehling (MS '88)** family reports they had a wonderful year, busy shuttling kids to baseball, soccer and flag football practices. Mitchell will be in the fourth grade and enjoys baseball, soccer and flag football. Adam will be in the first grade and loves soccer. Kayla will be in kindergarten and appears to be quite the social butterfly. The vacation highlight was a week-long trip down the coast of Oregon and Northern California in a motorhome with some neighbors. Kirk and Brenda can be reached online at: kbdaehling@aol.com. Their address is: 2950 Clearwater Street, Pocatello, ID 83201.

**Nate Chipman (PhD '93)** and his family have been very busy over the past year. He has traveled extensively for Lockheed-Martin, mainly trying to establish the Plutonium Focus Area. This is a DOE-sponsored organization that is responsible for making sure that the technology required for post-cold war clean-up of weapons facilities is available. Nate was recently elected as Chair of the Nuclear Engineering division of AIChE. Marietta continues to teach at Rigby Junior High where she has been active in developing a block Math/Science/English course with two other teachers. Camille recently passed and acquired her driver's license and is considering which college to attend. Rachel will be in the 9<sup>th</sup> grade this year and has followed in her sister's footsteps in managing the highschool wrestling team. Andy will be in the sixth grade and is very active in sports, academics and Cub Scouts. The Chipman's can be reached at: 3035 Disney Drive, Idaho Falls, ID.

**John Walton (PhD '92)** notes that his family have had a splendid year. John is going through the tenure review process at the University of Texas-EI Paso. Claire reports that her dad still loves classical music, but seems to have given up on rock and roll. June is still teaching the second grade and is in charge of the school's choir and Christmas program. Claire continues to excel academically, being active in the band and math club. She also picked up a hobby: physics...theoretical physics to be exact. Arthur will be in the 8<sup>th</sup> grade and his favorite subject is band. He loves to play Warcraft on the computer, challenging his friends over the phone line. Roy and Mariah will be in the 6<sup>th</sup> grade this year and they are both in orchestra. Mariah plays the cello and Rory plays the viola. Mariah still loves art and horses. Rory is interested in building things and turtles. You can email the entire family at: walton@dzn.com or you can write them at: 505 Stonebluff, El Paso, TX 79912

**Dennis Vauk (BS '81)** sends word he is married with two children and resides in Wichita, KS. Dennis is employed by Koch Refinery and is doing very well with the company.

**Yihong Chen (MS '94)** and her husband report the birth of their son, Eric Huang, born July 31, at 7:57 pm. Eric weighed 8 lbs 8 oz and was 20.5 inches long.

**David Nelson (MS '85)** designed a program called Visual MESA and supervised it's installation in all major Chevron domestic refineries.

**Michael Rousseau (MS '88)** succeeds Mr. Jerry Truitt as general manager, marketing and sales, Carbon Products Division in Lake Charles, LA. He joined Reynolds in 1988 as a process engineer in Longview, WA. A native of Mossyrock, WA, Mr. Rousseau received his bachelor's and master's degrees in chemical engineering from the University of Idaho.

**L.G. Neal (MS '59)** recently made the news when it was revealed that his company Noxso Corporation, was suing the Olin corporation. Olin alleged that Noxso had committed several breaches in the agreement and they were prepared to take possession of the facility in Charleston, TN. Noxso President Neal is seeking a permanent injunction and more than 32 million in damages.

PacSim employees **Joelle Scheldorf (MS '95)**, **Jay Scheldorf (PhD '93)**, **Bill Strand (PhD '89)**, **Loren Euhus (BS '94)**, and **Jim Haynes (PhD '89)**, and Industra employees **Todd Brooks (PhD '97)** and **Zeecha Brooks (BS '95)**, presented a joint PacSim/Industra seminar held in Seattle last November. Among those in attendance, representatives from Boise Cascade Corp., Fraser Papers, Georgia-Pacific West, Potlatch Corporation, James River Corporation, Weyerhaeuser Technology Center, Cartons St-Laurent, Conrex, Industra and Pacific Simulation. The seminar focused on simulation, data analysis, statistical modelling and photogrammetry.

**Arthur E. Humphrey (BS '48, MS '50)** received the 1997 John Fritz Medal for his pioneering work in the field of biochemical engineering. Previous recipients of the Fritz Medal include Alexander Graham Bell, Thomas Alva Edison, Orville Wright and Herbert Hoover. During his 43+ year career, Dr. Humphrey's work has resulted in four patents, more than 275 research papers and three books. Dr. Humphrey is currently a Professor of Chemical Engineering and Director of the Biotechnology Institute at Penn State University. October 27, 1997 was a special day at the University of Pennsylvania where Dr. Humphrey was honored at a Symposium celebrating his career. Dignitaries from academia as well as industry shared their respect and praise of Dr. Humphrey. Later, a tour of the Vagelos Laboratory and a reception followed.

### STUDENTS IN THE NEWS:

Chemical Engineering students **Danielle Mangan**, **Jennifer Odle**, **Michael van de Vanter**, and **Deena Lilya** are part of a new College of Engineering project called Engineering Ambassadors. Their main responsibility is to provide alumni and prospective donors with accurate information about engineering at the University of Idaho. The students assist in giving tours of the engineering buildings, as well as working at various engineering functions such as Engineering Day, Women in Engineering Day and class reunions.

### STAFF PROFILE: Charles Cornwall =====

Charles was hired in November of 1996 to head our Chemical Engineering Instrument Shop. Charles hails from the small town of Hunters along Lake Roosevelt in Washington State. He grew up on a small cattle ranch and his love for working with his hands led him to the University of Idaho in the fall of 1989 where he enrolled in the mechanical engineering program. Charles also worked as an assistant to John Failla, the Instrument Maker for the Physics Department for about five years before taking a break from school and serving as a missionary in Denmark for 2 years. He returned to Denmark as a student at the University of Copenhagen for the fall term 1995. He met and married his wife Laila in March of 1996. Charles and Laila returned to Moscow where Charles earned his BS in Mechanical Engineering in May of 1997. The Cornwall's have one son, Joseph, who was born in March, 1997.

Charles and his old mentor, John Failla, now head up the UI's Scientific Instrument Shop. The old ChE shop has gone through some major modifications. Until recently, the shop only occupied Room 226. Two walls were removed to expand the shop into Rooms 225 and 222. Charles and John will be sharing space, equipment, and resources in the hopes of creating a more efficient and effective Instrument Shop. Both Charles and John are striving to create a shop which produces the highest quality work that supports research within the two respective departments as well as within the campus community.

### STAFF PROFILE: Judy Kidd =====

Judy continues to spoil her two new grandsons with extraordinary skill - toys, computer games, candy ---whatever they want - that's what grandma's do. She is also part-time carpenter at the "Camp Kidd" forest construction site and continues to wield her artist's brushes to paint any leftover scrap wood, logs, pine cones, rocks or birdhouses that happen to fall into her path. All this plus tending the department - busy, busy! She enjoys hearing from alumni that can find time to drop a line or e-mail. (jkidd@uidaho.edu).

### DONATIONS AND CONTRIBUTIONS

**We would like to thank those who contributed to the department and our endowed scholarship funds over the past year.**

Aleck and Pauline Alexander, Overland Park, KS  
 Scott and Kristy Algate, Pocatello, ID  
 Roger Anderson, Rancho Cordova, CA  
 Christian and Karan Anton, Boise, ID  
 Karen Archer, Houston, TX  
 Craig and Rebecca Barrington, Richland, WA

Paula and Blake Barthelmess, Moscow, ID  
 Michael Baumann, Downey, CA  
 Ann Baumgartner, Lewiston, ID  
 Dorothy and Major Larry Beery, Lawton, OK  
 Dwayne Bershaw, Corning, NY  
 Robert Bohman, Novato, CA

Brian and Toni Brazil, Clarkston, WA  
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**If you would like to make a contribution to the department or to one of our endowed scholarships, please send to: Chemical Engineering Department, University of Idaho, Moscow, ID 83844-1021. If you wish your contribution to go to a specific scholarship fund, please indicate which one you prefer: Archer, Cooke, Deobald, Drown, Heitz, Hoffman, Jackson, Lang, Roehl, Sample, Snyder, Tipton or von Ende.**

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**STAFF PROFILE: Jo Ann Rattey** =====

Jo Ann remains busy with her three kids, the oldest one a sophomore at Western Montana State College in Dillon. The younger two keep her routinely involved with daycare and grade school activities. A ¾ acre garden occupies much of her time during the growing season and she enjoys developing new recipes for her family and friends to enjoy. Teaching her oldest daughter hand crafts keeps her busy during the colder months. Two step-grandchildren spent most of the summer with Jo Ann, Bobby and the kids, making it a very hectic and wild summer. Jo Ann now entertains thoughts of going back to college part time starting spring term 1998.

**TAPPI --- AICHE NEWS**

The past year has been exciting for the UI chemical engineering student organizations. We have decided to combine the efforts of AICHE and TAPPI to pool our resources for better student events. The highlights of the past year included fall and spring picnics, plant tours, a sub-sandwich Christmas party, and the first annual ChE golf tournament. We also sponsored the Sojourn House, a home for women and children in crisis. We collected and donated 4 bags of groceries, as well as some household items, and a large box of stuffed animals. We are trying to beat our record of last year, planning a heavy schedule of activities for this new school year. A very successful raft trip on the Salmon River got the year started right by recruiting some new underclassmen. Upcoming events include picnics, plant tours, and maybe even a spring ski trip. Plans have also been made to attend the September Pacific Section TAPPI conference in Seattle.

**STUDENT OFFICERS: 1997-1998**

	<u>AICHE</u>	<u>TAPPI</u>	<b>Please remember, our student groups need your help. Be active! Be supportive!</b>
<b>President:</b>	Edwin Kim	Michael van De Vanter	
<b>Vice-President:</b>	Peter Tomchak	Patrick Carnie	
<b>Secretary:</b>	Jennifer Odle	Danielle Mangan	
<b>Treasurer:</b>	Seth Vore	Danielle Mangan	

**In Remembrance:**

Arnold, Thomas A.	BS '42	May 30, 1996
Clatfelter, Kenneth	BS '50	August 16, 1996
Crothers, Charles	BS '51	June 1996
Erramouspe, Joseph	BS '60	September 20, 1996
Hemingway, Harvey	BS '47	February 17, 1997
Lang, Kirk	MS '95	April 1997
Spurling, Gene	BS '44	May 1996
Smalley, George	BS '43	December 22, 1995
Vance, Robert	BS '34	July 28, 1996
		von Ende, Carl A. BS '33

September 3, 1997

This year we were saddened by Kirk Lang's defeat in his battle with cancer. Kirk was a PhD candidate working with Lou Edwards. Kirk came to the department in the fall of 1991 from James River Corporation in St. Francisville, Louisiana. In November of that year he was diagnosed with cancer. Kirk finished his Master's degree in the spring of 1995 and began work on his PhD, while continuing to battle his cancer with chemo and interleukin treatments. Kirk spent many long hours not only working on his degrees here, but also setting up our computer network system. He helped get our computer lab up and working and volunteered to help other students with problems in the computer lab. Spring semester, 1996, Kirk had to withdraw from the PhD program and return to St. Petersburg, Florida to stay with his father and continue treatment. He lost his courageous fight this spring. We have established a scholarship fund in Kirk's name. If you'd like to make a donation, please send your contribution to the Chemical Engineering Development Fund and mark your donation, "**IN MEMORY OF KIRK LANG**". If we do not receive enough for an endowed scholarship fund to continue through the years, we plan to set up a one time award for a future graduate student. In this small way, we hope to continue to remember our friend and co-worker, Kirk.

**STAFF PROFILE: Barry King** =====

Facing wild grizzlies in Yellowstone Park, feeding "my" horses, adding three new student computers to the ChE "cyber-lab", improving the laboratory experiments for unit ops and process control – business as usual.

=====

**WE ARE on the INTERNET!** You want to correspond with us? find out the latest in our research advancements? or just what's happening? we can be found on <http://www.uidaho.edu/che>. Individually, we can be reached at:

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**Here's wishing you the very best during this 1997 Holiday Season !!!!**