On May 8, 1999 NDSU Chemistry majors joined in commencement ceremonies held at the Fargodome.

1998 - 99

**Bachelor’s Degrees**
Jeremy Daum
Ryan Eddy
Lisa Ellingson
Andrew Ertelt
Marcia Guetter
Gary Kummet
Stephanie Moe
Heather Nash
Aaron Smith
Jennifer Twalt
Ethan Venzke
Brian Very

**Master’s Degrees:**
Michael Johnson
Maxwell Lucci

**Ph.D Degrees**
Michael Edwards
Eric Hagastuen

Dr. Glass, Aaron Smith, Dr. McCarthy, Ryan Keddy, Andrew Ertelt, Heather Nash, Brian Very, Stephanie Moe, Jeremy Daum, Dr. Boudjouk, Dr. Hershberger.

Drs. Dean Seidler, Eric Hagastuen and Michael Edwards.

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Chemistry Department Events Gallery

Linda Stoetzer, our 30 Year Veteran, enjoys her new (used) computer.

Greg Oswald presents at 3rd ND College Chemistry Faculty Conference. Greg Cook (L), Ryan Winburn (Cr) and Charmane Disrud look on.

Renee Peterson and Marissa Wisdom, 1999 and 1997 Freshman Chemistry Award Winners.

Stephanie Moe shows off her ACS periodic table mousepad to Dr. Derek Killilea, Chair of Biochemistry. Steph was the Merck Award winner as our outstanding graduate in organic chemistry or biochemistry.

Chem Club member Nichole Howe helps with the 1999 State Science Olympiad at NDSU.

Dr. Andres Campiglia, Martha and Breno.

Broberg Center Regulars: Aaron Smith and Tad Stewart.

Brian Very, Goldwater Scholar and Undergraduate Research Fellow, received American Institute of Chemists Award as an outstanding graduate.

New Molecular Visualization Laboratory in the Chemistry Dept.

Drs. Mallik and Cook received a grant from the Student Technology Fee Action Committee to develop a molecular visualization laboratory for the Chemistry department. Currently, the facility has been set up and is open to all organic chemistry students and majors (Ladd 311). At the core of the facility is one dual-processor Silicon Graphics Octane computer and the modeling software (CAChE from Oxford Molecular Inc.). This computer has enough processing power to accommodate future expansion of the facility (2 x 250 MHz processors, 386 MB RAM, 22 GB hard disk, digital camera). Five PC’s interact with the Octane for modeling and other computational needs. The facility will be used to supplement Chemistry instruction by visualization of molecules and animation.
**ND EPSCoR Receives $3 Million Grant**

The North Dakota Experimental Program to Stimulate Competitive Research has received a $3 million renewal grant from the National Science Foundation. The grant, which will be disbursed over three years, is intended to improve the state’s science, engineering and mathematics infrastructure. It is the maximum the state could receive through the program.

“This is tremendous news for North Dakota,” said Philip Boudjouk, Distinguished Professor of Chemistry and ND EPSCoR program director. “We have received grants like this in the past and they have allowed us to make great strides. It is a broad-based program that cuts across many areas.” The grant will be matched with $3 million in state funding, plus indirect costs approved by the State Board of Higher Education.

In its application ranking, North Dakota competed with 12 states and scored in the top two. Not all states received funding. “What triggers this is the commitment North Dakota has made to build its research infrastructure at its two research universities,” Boudjouk said. “One of the evaluation points is the strength of commitment of a state to improve itself.”

Boudjouk said the ongoing research support program has stimulated economic development, through such things as technology transfer. “This is an important part of the rural states’ future. Developing a science and technology base encourages economic development,” he said.

EPSCoR’s mission is to increase the success rate of researchers in the state for merit-based grants; put North Dakota on the path to systemic reform in science, engineering and math education; increase opportunities for students and faculty to develop their capabilities; and develop strong links with business and industry.

**EPSCoR Announces New Graduate Fellowship Program**

North Dakota EPSCoR will implement a new Graduate Fellowships program in the fall semester of 1999. The program is designed to increase opportunities for graduating seniors from North Dakota University System institutions to obtain master’s and/or doctoral degrees in science, engineering and mathematics at North Dakota’s research universities. One of the first fellowship recipients is Travis Martin who graduated from Valley City State University in May. Travis will work toward a graduate degree in physical or analytical chemistry.

**EPSCoR Promotes Two People**

Cathy Lerud (UND) and Elizabeth Jung (NDSU) were promoted to Administrative Assistant at ND EPSCoR program this past spring. Ms. Lerud has been with the

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**See you at the GLRM!**

**32nd Great Lakes Regional Meeting**

June 4 - 6, 2000

*Hosted by the Red River Valley Section*

Fargo, North Dakota

The Department is the principal organizer of this meeting. Dr. McCarthy is the General Chairman and Drs. Boudjouk, Cook, Garvey, Hershberger, Jacobson, Mallik and Sibi are working on the program and meeting operations. We are also getting great help from UND, MSU, CC and other area faculty.

**Symposia & Special Session Topics**

- Agricultural and Food Chemistry
- Asymmetric Synthesis for the 21st Century
- Biochemical Approaches Toward Understanding Physiological Processes
- Biomolecular Recognition
- Chemical Education
- Environmental Analytical Chemistry
- New Chemistry of the Main Group Elements
- Polymeric Coatings
- Structure-Property Relations in Polymeric Materials
- Theoretical/Computational Chemistry

*There will be special events for NDSU Alumni and undergraduate majors.*

for more information and program contacts:
http://www.chem.ndsu.nodak.edu/glrm
The new NMR lab, with three new Varian NMR spectrometers installed, took shape over a period of seven months. Beginning in December 1998, the NDSU physical plant tore out the wall between Dunbar 253 and 254 and began the renovation project that included a new ceiling, floor, windows, cabinets, air conditioning, compressed air and nitrogen gas delivery system, and an emergency cryogen exhaust fan that has been tested under quench conditions. Some of the infrastructure renovation went on behind the scenes, including a compressed air filtration and drying system in the attic and a mechanism for automatic switching from air to nitrogen gas in case of an air compressor shutdown. The room renovation lasted from December 1998 through May 1999. By February, the second floor of Dunbar Hall was lined with crates and boxes from Varian and Oxford. Installation began in early April 1999.

Stage 1 shows the uncrating of the 500 MHz Oxford magnet, still on the pallet jack. Stage 2 shows some of the physical plant personnel who helped with every stage of the NMR project, including hoisting the magnets into place. In Stage 3, an Oxford technician is shown bolting the 500 MHz magnet to the temporary legs, later replaced by anti-vibration legs. Stage 4 shows one of the many visiting dignitaries who stopped by during installation to give advice on the process. In Stage 5, the magnet dewar is pumped down and prepared for addition of the cryogens (liquid nitrogen and liquid helium).

The picture in Stage 6 shows a plume of gas exiting the helium manifold. The helium cryostat was first cooled by liquid nitrogen and then cooled by liquid helium until it was filled with one hundred fifty liters of liquid helium. A total of 750 liters of liquid helium was consumed during the installation, including 300 liters boiled off in the two quenches that occurred while the magnet was being brought up to field. Stage 7 shows the mapping after the shim magnet has been charged. Stage 8 shows the 500 MHz NMR ready for action: the spectrometer console (which also houses the field gradient amplifier) is to the right of the magnet. The antivibration legs are in place. Not pictured is the SUN workstation. Installation of the 300 MHz, 400 MHz,
and 500 MHz Varian NMR spectrometers was completed in the first part of July 1999.

The new equipment was funded by a competitive award from the National Science Foundation’s Major Research Instrumentation Program and by matching funds from the University.
The Rodgers group would like to congratulate Ms. Aruna Viswanathan, who successfully defended her Masters dissertation in late July. She has decided on a change of career path and we wish her well as she enters the NDSU Computer Science program this fall.

Since the middle of June we have had the pleasure of working with Mr. Thane Underdahl, who will be entering the NDSU graduate chemistry program this fall. Thane has been working on the synthesis and spectroscopic characterization of an asymmetrically functionalized porphyrin and a novel autoassembled oligomer of its iron complex.

Lei Tang and Kent attended the 9th International Conference on Bioinorganic Chemistry (ICBIC) in Minneapolis during July. The conference had over 800 attendees and, in addition to the diverse lecture topics, there were more than 600 posters to take in. Kent and Lei presented a poster on transient resonance Raman spectroscopy of FixL and Kent chaired an interesting lecture session on protein-based biological sensing.

Science Bound student, Lisa Volk continued her work on heme proteins in our laboratory during the summer. She presented her results on the catalase/peroxidase, KatG, from Micobacterium tuberculosis at the North Dakota Science, Engineering & Mathematics 7th Annual Poster Session on July 28.

The researchers in Dunbar 151 along with spouses, significant others, and children recently took a canoe / camping trip to Crow Wing River near Menahga, Minnesota. Everyone had a great time, even my husband and I after tipping our canoe on some rapids!!! The weather was perfect, the water was clean, and many forms of wild life were seen.

We would like to welcome Stacy Rohlik (see picture) to our research group. Stacy is a Junior Chemistry major with the Polymers & Coatings option. She joined our lab at the end of spring semester and continued to work with us throughout the summer months. Stacy graduated from Wabasso High School in 1997 and grew up in Wabasso, Minnesota. Her interests include water-skiing and rollerblading. Brent Reems is currently working on writing his thesis and should be defending for his master’s soon. Jie He recently got back from an extended trip to Tianjin, China. While Jie was home he married his long time girlfriend, Xiaoying Sun. Xiaoying recently received her American Visa and is planning on arriving in Fargo soon. We congratulate Jie on his marriage!!!

Dr. Dennis E. Tallman is as busy as ever! He will be attending, chairing a session, and giving a talk at the International Corrosion Conference in South Africa on September 25th through October 1st. Twice during the next year Dennis will be heading south to Australia to explore new conducting polymer strategies for corrosion control with our partners in research at the Intelligent Polymer Research Institute, University of Wollongong, Wollongong, Australia. The first trip will be from November 1st through December 15th, 1999. The second trip will be from February 1st through March 31st, 2000.

Dennis has also been busy with his other passion, Handball. He is the 1999 North Dakota State Doubles Champion, Masters Division, with his partner, Dr. Jeffrey Suttle. He is also the 1999 Manitoba Open Singles Champion, Masters Division.
“A Journey in the Microcosm with a Molecular Organization Man”

Wednesday, September 22 8:00PM
Beckwith Recital Hall

“Lives and Times of Small Molecule Dioxygen Carriers”

Thursday, September 23, 3:30 PM
Dunbar 152

featuring...

Dr. Daryl H. Bush

Broberg Lecture will feature 2000 President American Chemical Society

This fall’s Broberg Lecturer, Dr. Daryl H. Busch, President-Elect of the American Chemical Society, is the Roy A. Roberts Distinguished Professor of Chemistry at the University of Kansas, a position he has occupied since August of 1988. Previously he was a faculty member at The Ohio State University where he rose through the ranks from Assistant Professor (1954) to Presidential Professor (1987). His research in basic transition metal coordination chemistry fathered modern macrocyclic ligand chemistry and created the molecular template effect.

The Cook Group

By: Dr. Greg Cook

The Cook Group has been very busy this summer. There have been a few new additions this year. Graduate student Hui Yu joined the group last May and postdoc Dr. (Shankar) Sankaranarayanan and his wife Mathangi, originally from India, arrived at the end of July after living in Germany. Hui and Shankar are working on aspects of the palladium-catalyzed kinetic resolution projects ongoing in the lab.

A number of undergraduate researchers were on board over the summer. Miranda Hvinden, a science bound student, continues her work with graduate student Scott Erickson on new indium-catalyzed radical reactions. Scott Reule, a McNair fellow, joined us this summer to aid in the synthesis of a number of our key molecules and Aaron Ferguson has been exploring some new cobalt-mediated isomerization reactions. Scott Peterson, a Goldwater scholar and McNair fellow just returned from a summer semester in Germany and will continue his work on the synthesis of novel aza-sugar compounds. His work last year with Dr. Sathya Shanker culminated in a publication in the new American Chemical Society journal, Organic Letters. The Cook Group hosted a Governor's School student this summer. Kjirsten Swenson worked under the direction of Miranda to prepare some substrates for the kinetic resolution project. So, the labs have been full this summer!

The science in the Cook Group has continued to grow along with the personnel. The group was well represented at the National ACS Meeting in Anaheim last spring. Scott Erickson, Dr. Shanker, and Scott Peterson presented posters and Dr. Cook presented an oral paper. Dr. Cook also attended two Gordon Research Conferences this summer where he presented one talk and three posters. In addition to the Organic Letters paper, a few other manuscripts are currently being prepared.

Funding for the science has been pretty good. With some support from NIH and NSF, the projects in the Cook Group continue to develop. However, according to Dr. Cook, it is still a struggle to fund a level of science that is internationally competitive. "The biggest concern I have is how to provide financial support for my students" says Dr. Cook. "I worry about this everyday. I know I'm paying out more money than is coming in. With the rising costs of research, grants just don't go as far as they used to. I'm pleased the Chemistry Department had the foresight to
Faculty, Staff and Students

A new product developed by Gregory Gillispie, Professor of Chemistry, was featured on the cover of the June issue of Laser & Optics magazine. The international publication features articles about laser technology and new product announcements. Gillispie’s tunable laser is a device used by chemists, physicists and engineers for scientific research.

ND Chemistry Faculty Develop Plant Pigment Experiments for College Chemistry Courses

Students sometimes say that introductory chemistry labs are uninteresting and not connected with their lives and interests. Overcoming these perceptions is one goal of a workshop held on August 9-11 at NDSU.

Dr. Gary Stolzenberg, Lecturer in the NDSU Chemistry Department, and six ND college chemistry faculty extracted and analyzed plant pigments from berries, barks and leaves of native North Dakota plants. All of the materials had a Native American cultural or medicinal connection.

Participating faculty included N. Balakrishnan of United Tribes Technical College (Bismarck), Daniel Buresh of Sitting Bull College (Fort Yates), Charmane Disrud of Turtle Mountain Community College (Belcourt), Thomas Gonnella of Mayville State University, Larry Groth of UND Lake Region, and Anne Malan of Cankdeska Cikana (Little Hoop) Community College (Fort Totten).

The workshop was supported by a National Science Foundation grant known as NDSU CoMSTeP, the Cooperative for Math and Science Teacher Preparation. The goals of the grant are to attract more talented students into math and science teaching careers, and to improve the teaching of the math and science courses taken by future teachers.

Dr. Mukund Sibi Receives NDSU Research Foundation Grant

The NDSU Research Foundation has awarded nine grants totaling $37,832 under its Research Development Support Program. The funding comes from investment earnings on the endowment established with revenue from research fees and royalties on intellectual property managed by the foundation.

“This is the second year of our funding research at NDSU,” said Dale Zetocha, foundation executive director. “The funding has grown and we are encouraged by that. We hope to see it increase each year in the future.”

Mukund Sibi, professor of chemistry, received a $5,000 Innovation Award for his work with a practical synthesis of beta-amino acids. The category is for research and development projects that anticipate future patent or copyright activity and have commercial potential. The awardees were chosen from 24 research proposals submitted by NDSU faculty and reviewed by the Research and Consulting Committee.

Sibi Group News

By Tara Ternes

The Sibi Lab has welcomed a new post-doc, Yasutomi Asano (Kyoshin) to the group in April. He is from Kyoto, Japan and his new wife, Miho, recently joined him in Fargo.

Our group has also expanded into a new lab. Dunbar 250 has been painstakingly remodeled to accommodate organic chemistry, and post-docs Chen and Kyoshin are thoroughly enjoying their sparkling new lab. Graduate students Tara Ternes, Mei Liu, Pingrong Liu and Justin Sausker all presented posters at the ACS meeting in Anaheim, CA this past March, and undergrad Greg Bjorkland presented a poster at the EPScOR undergraduate poster session in July.
**Faculty, Staff and Students**

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**Welcome**

**Dr. Seth Rasmussen**

Dr. Seth Rasmussen, an Inorganic Chemist, joins the Chemistry Department. Seth received his bachelor’s degree in chemistry from Washington State University. He went to Clemson University in S.C. where he received his Ph.D. in 1995 in Inorganic Chemistry. He held a postdoctoral research teaching position at the University of Oregon before accepting a position here.

His research interests are: 1) Synthesis and physical studies of conjugated polymeric systems incorporating the coordination of active transition metals; 2) Synthesis of multidentate ligands capable of bridging multiple active metal centers.

**Other Departmental Changes**

Greg Oswald starts a continuing position this fall as lecturer and teaching lab coordinator.

Gary Stolzenberg will be the organic teaching lab coordinator.

William Diamanti will expand his horizons this year by teaching several evening labs.

Renee Essig will move to an Administrative Assistant position in the Tri-College University in September.

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**McNair Scholars Program names students**

Four NDSU students have been selected to participate in the McNair Scholars Program.

Chemistry is proud to welcome Scott Ruele. He is a junior in biotechnology, with plans to pursue a doctorate and specialize in orthopedics or pediatrics. His faculty mentor is Gregory Cook, assistant professor of chemistry, and his library mentor is Lura Joseph, Chemistry Library.

McNair Scholars are selected from NDSU undergraduates who meet the program criteria and who show an aptitude and an interest in agricultural, engineering, science, mathematics or pharmacy research. To be eligible for selection, McNair Scholars need to be income eligible, first-generation college students, or from groups traditionally underrepresented at the graduate level for doctoral study. The program encourages scholars to pursue careers in college teaching and research upon completion of the doctorate. Each scholar is supported by an NDSU faculty and library mentor.

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**Congratulations!**

**Dr. Kenton Rodgers Tenured**

Tenure was granted by the State Board of Higher Education at its meeting on April 30 for Dr. Kenton Rodgers. Rodgers received his Ph.D. in 1988 from the University of Iowa. Postdoctoral experience was gained from 1989-93 at Princeton University. He joined North Dakota State University in 1993 as Assistant Professor and was promoted to Associate Professor in August 1998.

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**30 Years!**

At the Employee Recognition Luncheon Tuesday, April 13, among those honored was the Chemistry Department’s Linda Stoetzer, Account Technician, for her 30 years of service. Linda has been nominated for the Gunkelman Award several times!

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**Goodbye to...**

**Dr. Allan Fischer**

Fischer, who retired this year, has held the office of the Dean of the College of Science and Mathematics and the interim presidency in his 31-year career. His warmth and caring attention will be missed. He will be remembered for his brainchild, the North Dakota Governor’s School.
SUNDAY AFTERNOON

Introduction -- Mukund Sibi (North Dakota State)
Session Chair -- George O'Doherty (Univ. Minnesota)
Amos Smith (Univ. Pennsylvania)
James Cook (Wisconsin-Milwaukee)
Craig Forsyth (Univ. Minnesot)
John Stille (Eli Lilly)
John Boukouvalas (Universitat de Laval)
Bill Donaldson (Marquette University)

MONDAY MORNING

Session Chair -- Greg Cook (North Dakota State)
Tomas Hudlicky (Univ. Florida)
Xumu Zhang (Penn State)
Graham Jones (Northeastern)
Steve King (Abbott)
Viresh Rawal (Univ. Chicago)
Richard Tillyer (Merck)

MONDAY AFTERNOON

Session Chair -- Irina Smoliakova (Univ. North Dakota)
Don Matteson (Washington State)
David Ager (NSC Technologies)
Marvin Miller (Univ. Notre Dame)
Robin Polt (Univ. Arizona)
Rebecca Braslau (UC-Santa Cruz)
Ellen Baxter (Johnson & Johnson)
Yian Shi (Colorado State)

TUESDAY MORNING

Session Chair - William Shay (Univ. North Dakota)
Jim Takacs (Univ. Nebraska)

TUESDAY AFTERNOON

Session Chair - Viktor Zhdankin (Univ. Minnesota-Duluth)
Tom Hoye (Univ. Minnesota)
Our Scholarship Recipients Say “Thanks.”

Our student-scholars wish to offer many thanks to those who have contributed to the Chemistry Department scholarship and award endowments. Scholarship recipients received their awards at the College of Science and Mathematics’ “Day to Celebrate Scholarship” rally. This year’s scholars are:

**Donald Bolin Scholarship**  
Rebecca R. Wertish (Faribault, MN)  
Patrick J. Griffin (Fargo, ND)  
Elizabeth A. Hillerson (Yankton, SD)  
Linda M. Mizeur (Williston, ND)  
Jonathan Zurbey (Cottage Grove, MN)

**Chemistry Department Honor Scholarship**  
Angela Eppler (Fargo, ND)  
Todd M. Roper (Shakopee, MN)  
Tad D. Stewart (Williston, ND)

**Lawrence Debing Scholarship**  
Mei Liu (Beijing, China)

**R. E. Dunbar Scholarship**  
Matthew C. Kidd (Lison, ND)  
Rachael A. Peterson (White Bear Lake, MN)  
Aaron Schwartz (Lakeville, MN)  
Michelle M. Wiest (North Mankato, MN)  
Galen Sedo (Rugby, ND)

**Brady Brunsvold** (Glyndon, MN)  
**Jamie Baxter** (Minot, ND)  
**R. E. Dunbar Scholarship** (continued)  
Troy Kummer (Williston, ND)  
**Michael Kroll** (Williston, ND)

**Milde Scholarship**  
Victoria Gelling (Grand Forks, ND)

**Sugihara Scholarship**  
Christina M. Bulisco (Grand Forks, ND)  
Stephanie L. Lerach (Oakdale, NM)  
**Krista M. Fisher** (Dickinson, ND)  
**Renee B. Peterson** (Grandin, ND)

**Wedel Scholarship**  
**Marissa A. Wisdom** (Washburn, ND)  
**Stacy Rohlik** (Vesta, MN)

**EPSCoR Awards**

Bismarck, worked with Dr. Mallik.  
* Rachel Peterson, a sophomore from White Bear Lake, MN worked with Dr. Campiglia.  
*Shane Stafslien, a senior in Microbiology worked with Dr. Boudjouk.

The ND EPSCoR Advanced Undergraduate Research Awards program provides up to $2500 for undergraduates who join a faculty laboratory for summer research. For the summer of 1999, the NDSU AURA Awardees included the following:  
* Nicole Howe, a senior chemistry major from West Fargo worked with Dr. Sheridan in Zoology.  
* David Nelson, a freshman from

If you are in town, please stop by Ladd 104 and visit. Also, we’d love to hear from you and what you are doing! Please keep us updated on address changes.
From...the Mallik Lab:
Contributed by Md. Abul Fazal.

A warm welcome to you all once again from Dunbar 251. It is nearly six months since we updated you last time. So, let’s look at the recent happenings in the Mallik lab.

We have just finished a busy summer. In addition to the regular members, our lab got a speedy start at the joining of summer researchers. Like every year, a high school teacher, Sara Forness (from West Fargo High School) joined us this year. She worked on the synthesis of new polymerizable amino lipids with Bidhan. Sara has a farmhouse and has agreed to train our group on horse riding. An undergraduate student from University of North Dakota, David Nelson, worked in our group as an EPSCoR AURA fellow. He conducted initial experiments on the hydrolysis of phosphate esters by synthetic copper complexes (a new area of our research). With encouraging results, he plans to continue his research at UND under joint supervision of Dr. Lakshamn (UND) and Dr. Mallik (NDSU). Governor’s school student Emily Arthur (from Ellendale) was busy with synthesis of compounds containing three triazacyclononane units. Synthesis of other metal complexes kept Joy working hard throughout the whole summer. Three posters were represented from Mallik lab in the 7th Annual REU Poster Session. Another undergraduate student, Jennifer, is preparing for her debut in the job market. She already has one interview trip coming up. We all wish her all the best!

Bidhan is concentrated on his liposome project as before. Meanwhile he got his paper published in the Journal of Organic Chemistry. Another manuscript with Fazal on protein recognition has already been submitted to the Journal of the American Chemical Society. Their work on the recognition of peptides is being sent for publication. Sun finished his coursework last Spring and now is working as a full time researcher towards his Ph.D. Fazal has finished his coursework for MS and is now getting the research done for the degree. Bidhan’s project on liposome has been recently competitively renewed by the National Institutes of Health for another three years. Dr. Mallik presented the results on protein recognition at the Fall national meeting of American Chemical Society (New Orleans).

After a pleasant summer, Fall is at the door. We are ready to step forward with full strength. We are expecting another productive semester as the summer was. So hope to see you again with the stories of success and promise.

Department of Chemistry
Million Dollar Campaign

The Department of Chemistry at NDSU has initiated an endowment fund for Chemistry Graduate Student Fellowships. The initial goal is to raise $1 million. This will provide interest income which will be directly applied to supporting graduate students in our MS and PhD programs. Gifts are tax deductible and may be sent directly to the NDSU Development Foundation, P.O. Box 5144, Fargo, ND 58105-5144. Designate your gift to “Chemistry Graduate Student Fellowship Fund”. You may make a gift by credit card by calling 1-800-279-8971 or 701-271-0296. Any size gift is very much appreciated.
Chemistry Club News

The Chemistry Club once again had a successful year in 1998-1999. Members participated in many community outreach programs such as, programs for area elementary schools and an exhibit at Yunker Farm. To raise money to the annual ACS TRIP the Chem Club was busy selling goggles and exam study booklets. Fifteen members attended the American Chemical Society national meeting in Anaheim, CA. There, the group participated in various poster presentations or their research and outreach activities.

The Chemistry Club is looking forward to the 1999-2000 school year. We will be involved in outreach and fund raising programs and are planning a trip to the 2000 American Chemical Society national convention in San Francisco. We would like to invite all incoming chemistry majors to join, and we ask all who are interested to watch for the signs that will be posted outside of the Broberg room.

1999 - 2000 Officers
President: Tad Stewart
Vice President: Stacy Rohlik
Secretary: Stephanie Lerach
Treasurer: Krista Fisher
Advisor: Drs. Eaton and Sibi

Chem Club Members, Yunker Farm.

The McCarthy Group
By: Dean Grier

The McCarthy group is nearing completion of their four year DOE project dealing with long-term alteration of disposed and utilized coal combustion by-products. Ryan Winburn, Stephanie Lerach, Renee Peterson, and Dean Grier each gave presentations from this work in August at the 48th Annual Denver X-Ray Conference held at Steamboat Springs, CO. Ryan (Dr.!) Winburn will be teaching at Minot State University beginning this fall. Jeff Walsh received his B.S. and will be working as a geologist in Steamboat Springs, CO. Marissa Wisdom returns to the group this fall, having spent the summer as a research fellow at Mayo Clinic. Pat Griffin, who finished the bulk of a large project for the MCL this summer, returns this fall as a synthetic chemist in the Boudjouk group. Bryan Bortnem joined a biotechnology research group, and Eric Jarabek has taken over his responsibilities of instrument maintenance and calibration.

Bryan and Raquel Jarabek dropped by last month. Bryan is enjoying his Ph.D/M.D. program at Georgetown University. Future Astronaut Raquel was on her way to Houston for a ride on the famous “vomit comet”.

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