

# Science Math Associates (SMA)

## News from NNU

### School of Health and Science

Volume II, Number 2

Fall 2001

#### Department of Nursing's First Accreditation

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The Department of Nursing achieved an important milestone in its development on October 10-12, 2001. The department underwent its first accreditation assessment visit by the Commission on Collegiate Nursing Education (CCNE). All of the standards for accreditation were judged to be in compliance except for two sub-components of one standard. These two activities could not have been without a graduating class. The report of the assessment team will be submitted to the national accreditation committee for consideration and final word regarding the results will be received in the spring before graduation.

The faculty and chair of the program knew the risk of seeking accreditation without having graduated its first class. Yet, all agreed that this was the best course of action for the sake of the graduates. Knowing that four other schools had been successful in similar circumstances and believing that this was God's direction, the faculty proceeded. The successful report was affirmation of the strategy taken.

Dr. Judith Stocks – Nursing Department Chair

The CCNE visitors commended the university for the work that had been completed in a short time frame and the quality of the faculty and program. The nursing faculty felt great pleasure in the recognition by the visitors that only by "divine intervention" had so much been accomplished.

#### Homecoming Activities for SMA

**Along with** other Homecoming Activities, Science Math Associates (SMA) will have a breakfast on Saturday morning, November 24, from 8 a.m. to 9 a.m. in the Wordsworth Meeting Room. This is a great chance to meet friends, new, current and retired professors and to hear an excellent presentation by current students. Cost will be \$4.50, which you can pay at the door. You can then attend the Homecoming Auction in the Brandt Center, starting at 9:15 a.m.

## **Close call for Jim Zimbelman on           ber 11, 2001**

**"I** was a lot closer to the action than I would have liked. I was on an American Airlines flight scheduled to leave National Airport at 9:21 a.m. Tuesday morning (to give lectures for the Smithsonian in Peoria). We left the gate on time but quickly returned when the pilot announced that the FAA grounded all AA flights. Shortly after we left our plane, the jet hit the Pentagon; the airport Authorities ordered the evacuation of the airport (although at the time they did not announce the reason for the evacuation.) I fortunately had no checked luggage, so I went directly to the metro (subway) station right by the airport, where I saw (and smelled) a big fire to the north, but still did not really know what it was. The metro driver said we would have to stop at the Pentagon City station because of a 'police emergency' at the Pentagon station. Once above ground by the Pentagon City shopping center, I could clearly see the black smoke coming from the west side of the Pentagon. Police stopped all traffic, so I decided to walk north to the next nearest metro station at Arlington Cemetary, following the empty freeways. This took me right by the west side of the Pentagon. As I walked along Highway 27 amid numerous military personnel, one of the military guys stopped by a piece of tubing on the highway, which was leaking a dark fluid. He bent down and checked the liquid, and then told a companion that it was airplane hydraulic fluid. That was my first indication of what had actually happened. I still thought it must have been a private plane of some kind, and only learned the awful truth when I finally got home."

## **Meet The New Faculty**

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**usan E. Draine** comes to NNU from the Division of Nursing at Olivet Nazarene University, Bourbonnais, Ill. Susan has been teaching at ONU for eighteen years in her clinical specialty of adult nursing with a focus on critical care and trauma. Professor Draine is a major in the United States Air Force Reserve and has been an active member of Air Force Reserve for seventeen years. Susan has received the Air Force Commendation Medal and the Air Force Meritorious Service Medal.

Susan's undergraduate degree was earned at ONU and her master of science at the University of Alabama at Birmingham. She also earned the MBA at Olivet. Susan maintains certification in critical care, which requires many hours of clinical practice each year, as well as documentation of currency in the skills and competencies of critical care.

Personally, Susan is married to Chuck who was involved in the reserves for many years. In fact Susan and Chuck met in the reserves. They have three children who live in the Midwest. "Milo," their dog, moved with Susan and Chuck to Idaho and continues to dominate the family.

Susan's skill and expertise compliment the needs of the nursing faculty. She is actively involved in development of senior level courses that involve clinical practice in Intensive Care Units, Cardiac Care Units and Oncology. In the spring, Professor Draine will teach Leadership and Management for Nursing.

# S



**haron Stephen** received her undergraduate degree at the University of Nebraska in Omaha and her master of nursing at the University of Washington. She earned her post master's Nurse Practitioner at the University of Utah as well as her Ph.D. Sharon's doctoral dissertation, "Fatigue in Chronic Heart Failure" was selected for a Nursing Research Award and was presented at the Heart Failure Conference in Washington, D.C. in September of

this year.

Dr. Stephen was a community case manager for Chronic Heart Failure at St. Alphonsus in Boise, Idaho, before coming to NNU. Sharon's clinical specialty is heart failure and gerontology. She has practiced in Wash., Ore., and Idaho and has taught at the University of Utah, Boise State University and Mount Hood Community College. Currently, Professor Stephen is teaching Community Health Nursing and will be managing the senior preceptorship in the spring. Sharon's clinical specialty and credentials give her many options in the job market. Her choice of NNU is a blessing to the department and the university.

Sharon has two teenage daughters who are volleyball stars and good students. Her husband, Stu, is a respiratory therapist at a hospital in Boise. The family has lived in Boise for fifteen years and enjoys the many recreational activities available in the Treasure Valley.

**D**



**an Lawrence** comes to NNU from Raytheon Missile Systems in Tucson, Ariz., where he worked in the AIM-9X analysis group in the Electro-Optical Subsystems Department. Dan received his Ph.D. in physics from Purdue University specializing in Experimental Condensed Matter Physics. He received his MS degree in physics from Virginia Commonwealth University in the area of Theoretical General Relativity. He received his undergraduate degree from NNU in 1992.

"Coming back to teach at NNU has been a long time dream," replied Dr. Lawrence. "Both my wife's and my responsibilities had come to an end at our church in Tucson. We began to pray for God's plan for our lives and it was at this point that we received an invitation to apply for the position open in the physics department at NNU. God lead us to Nampa and after almost a semester completed, I'm having the time of my life. Be careful what you ask for, sometimes God gives you the desires of your heart." Dan and wife Kamela have two precious little girls; Kristin (26 months) and Kelli (5 months).

## REUNIONS

Every Thanksgiving NNU celebrates Homecoming with the return of hundreds of alumni to enjoy a play, music programs, sporting events and special alumni functions. Science Math Associates, a group of alumni and friends who actively support the School of Health and Science, has its annual breakfast on that Saturday morning. Class reunions for this fall include the class of '96 for its five-year reunion and every class in five-year intervals back to the forty-year reunion for the class of '61. Class reunions for the 45 through 60-year reunions will be this spring at graduation. On May 10 there will be reunion activities for the classes of '56, '51, '46, '41, and '36. The '50 year reunion class will march in the graduation ceremonies on May 11, 2002.

The following activities will be of special interest to you:

- Tuesday, November 20 – 7 p.m., Science Lecture Hall. Dr. Jim Zimbelman will speak about "A Close-up Look at Mars." This is a public lecture, which will be repeated at 2 p.m. on Saturday, November 24, in Felter Lecture Hall.

Humanity has been fascinated with Mars since our ancestors first noticed it as the unblinking red object that seemed to "wander" among the fixed stars. Telescopes first revealed mysterious faint patterns on the Red Planet, but the advent of spacecraft exploration gave us our first detailed views of the Martian surface. This lecture will review our exploration of Mars Global Surveyor spacecraft currently operating in orbit around Mars, and summarize our plans for continued spacecraft exploration through the rest of the decade.

- Wednesday, November 21 – 4 p.m. Science Lecture Hall. Dr. Jim Zimbelman will speak on "Differential Global Positioning System Topographic Measurements Applied to Geomorphology."

Precision topographic measurements can now be obtained for a variety of landforms through the use of special receivers and the constellation of Global Positioning System (GPS) satellites orbiting the Earth. This lecture will review how the GPS system operates, with examples from a lava flow in New Mexico and sand dunes in Arizona for how this data can be applied to specific problems in geomorphology, where the shape of landforms is interpreted to reflect the processes that led to their formation.

This lecture will be more technical than the Mars lecture and is aimed more for students.

- Friday, November 23 – 10 a.m., Alumni and Friends Chapel in the Brandt Center.
- Saturday, November 24 – 8 a.m. to 9 a.m., SMA Breakfast in the Wordsworth Meeting Room. The speaker will be Dr. Joe Kronz who will receive the Leon Doane Young Alumnus Award in chapel on Friday.

## Ten-Year Reunion

Don (physics '91) and Deborah (elem. education '90) Carter are planning to return to NNU this fall for Don's ten-year reunion. After leaving NNU, Don taught high school physics and chemistry for four years. Don wanted to get back to his original goal of working in the aerospace industry, so he began work at Boeing in Seattle in the Accident and Incident Investigation group. Don completed a master of aerospace engineering at the University of Washington in June of 2000. Currently Don is with the Flight Safety group at Northwest Airlines in the Minneapolis/St. Paul area. He is manager of the Flight Operations Quality Assurance program and serves as the flight data recorder expert for Northwest in the event of an incident or accident. Don and Deborah have two children; Thomas, four; and Katherine, one.

## Fifteen-Year Reunion

**A**rt Bahrs, (computer science '86) is working as a senior programmer/analyst and assistant system manager for Denkor Dental Management, which is the parent company of Columbia Dental Group of Idaho. Art is recovering from having a discectomy and fusion done on his neck to repair damage from an accident two years ago. Art writes "I am looking forward to seeing all of my classmates and teachers and all the changes to the campus when we return to campus this fall for our 15-year reunion. I have been telling my wife, Sandra, about how nice the campus and my teachers were. Sandra is looking forward to seeing the campus and Idaho for the first time this fall at the reunion."

## Twenty-five-Year Reunion

**D**r. Jim Zimbelman (mathematics '76) joined the National Air and Space Museum (NASM), Smithsonian Institution (SI), in 1988, following post-doctoral and staff scientist positions at the Lunar and Planetary Institute in Houston. He is one of the staff research scientists in the Center for Earth and Planetary Studies, a department devoted to the study of Earth and the planets through the use of remote sensing tools and field analog investigations. Most of his research is supported through competitive research grants from NASA's Planetary Geology and Geophysics Program; he has served in many advisory and panel review positions for this NASA research program. Jim's research interests concentrate on two major themes: the study of long lava flows on planetary surfaces, and aeolian (wind-surface interactions) processes such as sand dunes and wind-eroded landforms. The lava flow work involves analysis of images of lava flows on planetary surfaces, geologic mapping of regions on Venus where lava flow fields are prevalent, field studies of long basaltic lava flows in New Mexico, California, and Hawaii, and with collaborators he is applying the results from this work to laboratory simulations of lava flows with carbowax (SUNY-Buffalo) and computer simulations of lava flow emplacement (Univ. of Tokyo). The aeolian studies involve geologic mapping of an area on Mars subjected to extensive wind erosion, investigations of sand dune mobility on Mars, and field studies of sand dunes in the Mojave Desert of California. In addition to basic research in planetary geology, Jim was named the curator of the "Exploring the Planets" gallery at NASM in 1998. In this capacity, he oversees all updates and new installations within the gallery, and is chairing a group working on recommendations for an entirely new planetary gallery in the coming years. He also gives many public lectures on planetary topics as part of SI's outreach efforts across the nation.

Since joining NASM, Jim has published 31 peer-reviewed articles in scientific journals and books, three geologic maps of Mars, and >140 abstracts accompanying presentations to scientific audiences at various conferences. One of his most recent publications is a book co-authored by J.R. Zimbelman and T.K.P. Gregg entitled "Environmental Effects on Volcanic Eruptions: From Deep Oceans to Deep Space" which was published by Kluwer Academic/Plenum Publishers last year.

## Forty-Year Reunion

**D**r. Lee Carter (eng. physics '61) is currently a technical consultant after taking early retirement from Battelle Northwest Laboratories five years ago. Lee is co-author of a book "Particle Transport Simulation with the Monte Carlo Method," author or co-author of 14 technical journal manuscripts, 20 technical reports and 56 technical meeting publications. Lee met Gerry Lindley at NNC and they have been married 43 years. They have four children: Carol, Mike, Linda, and Wayne. They are looking forward to Reunion 2001 and visiting Carol and grandchildren Tyler and Chelsea.

## In Memory

### Ivis Marie Hopper Powell Nursing Scholarship Funded



In memory of Ivis Powell, the Ivis Marie Hopper Powell Nursing Scholarship has been started by her estate.

Ivis Powell, 80, of New Plymouth went to be with her Lord and Savior on August 31, 2001, having passed away peacefully at home. Ivis was born December 8, 1920, in Ontario, Ore., to Walter James and Vineta Parton Hopper. After five years in Ontario her family moved to the Boise Valley, where she attended several schools. She graduated from Midvale High School in 1939. Ivis then graduated from Samaritan Hospital School of Nursing in 1944 and from Northwest Nazarene College with a bachelor of science in Nursing in 1945. That fall she sailed for Swaziland, South Africa, where she worked in a mission hospital for sixteen years. She returned to the United States in 1962 and worked three and one-half years at the hospital in Council, Idaho, as director of nursing services. On March 14, 1966, she married Milton Wesley Powell and moved to his farm south of Fruitland, Idaho. Milton was called home to heaven in August 2000 and in August 2001, Ivis passed away from pancreatic cancer. Ivis was a strong lady who had a

deep love for the Lord and His work and used her nursing skills to touch many lives. Her desire to serve will live on through the students that receive the "Ivis Marie Hopper Powell Scholarship" at NNU funded by her estate.

If you would like to donate funds to the Nursing Scholarship please contact Darrell Marks at (208) 467-8529 or email him at [dmarks@nnu.edu](mailto:dmarks@nnu.edu) or the SMA email [sma@nnu.edu](mailto:sma@nnu.edu).

### Darrel and Judy Bloomquist Student Library



In memory of Darrel R. Bloomquist, the Darrel and Judy Bloomquist Student Library has been started with a donation of Darrel's books and memorial gifts. The purpose of the library is to provide specialized learning resources for student programs in mathematics and computer science, biology, chemistry, and physics.

Darrel R. Bloomquist, 47, of Meridian, Idaho, passed away Thursday, May 24, 2001, at home with his family following a courageous battle with cancer. Darrel was born June 5, 1953 at Elkhart, Ind., to Merrit and Violet Bloomquist. He moved to Nampa, Idaho, where he attended elementary school through college years at NNU. Following graduation he and his wife Judy moved to Pullman, Wash., for his graduate work and he completed his education with a Ph.D. in physical chemistry. Immediately following graduate school he was offered a job with Hewlett-Packard in Boise and spent more than 20 years being actively involved with research and development of new products.

People wanting to donate material or funds to this library may contact David Redfield, (208) 467-8361 or email him at [daredfield@nnu.edu](mailto:daredfield@nnu.edu). With information concerning alumni and friends, please contact Darrell Marks at [dmarks@nnu.edu](mailto:dmarks@nnu.edu) or send an email to [sma@nnu.edu](mailto:sma@nnu.edu).

### Ramblings of the Sole Female Survivor of the Physics Class of 1984

by Karen Gerdes

# H

Back Row: Dr. Sharpton, Jim Hanson, Joe Ness; Front Row: Karen Gerdes, Alan  
Cramer, and Duane Lane. Not pictured: Tom Christianson & Eric Mackin



ere I am beginning my 16th year of teaching high school math and physics, and I can't imagine doing anything else at this time in my life. I guess you could say that I love warping the minds of tomorrow's leaders. When I was a high school senior, the last thing I ever wanted to be was a teacher, especially not a high school teacher. I knew how obnoxious high school students could be. When selecting a major for college, I took my father's advice and chose something I enjoyed. So, I began my years at NNC (I still call it that in my mind) as a math major. At this time Dr. Ganske had the dubious honor of working on one of my many schedules. After taking my first year of physics, I "refined" my major to physics. Once again Dr. Ganske got to rework my schedule (twice in one day). I still wasn't sure what I wanted to do, but during my junior year I spent a lot of time with friends who were going through the education department and I found the idea of working with students appealing, so I decided to "adjust" my degree to allow for physics and teaching. This time Dr. Ganske helped me with some of the red tape required for that change. Even though I wasn't technically in his department any longer, the poor man couldn't get rid of me. Dr. Ganske is one example of the various people at NNC who advised me, supported me, and encouraged me when I wanted to make the many "revisements" of my major. So, here I am a veteran teacher.

When I was getting ready to go back for my 15-year college reunion, the one question that did not worry me was "what will my classmates think of my job?" At my ten-year reunion I had found my former physics classmates supportive and accepting. As college seniors we all had "great" plans, and as the years progressed we found that "great" meant different things for each one of us. I believe that being the best teacher I can be and investing my time in my students' lives (and spoiling my nieces and nephews) is my great plan. Similarly, I believe that my classmates have found that doing their different jobs, raising the families God has given them, and investing themselves in their families, friends, and colleagues is the "great" plan for them. There were ten of us who graduated with a physics degree in 1984 and seven of us were at the 15-year reunion (see picture). As college students we had spent many hours together in the old physics lab and classes, but as alumni we aren't able to spend that many hours together. However, for one weekend we could reminisce about the snake that almost got away, the earthquake that sent us running outside, the time that Dr. Sharpton ran out of gas in the middle of Nevada, and remember why it was that we have remained friends.

I believe that attending a small Christian college, learning in small classrooms, and interacting on a personal level with my professors and classmates were conducive to the learning and maturing process that occurred while I was at NNC. It allowed me to revise my goals, stretch my abilities, and accomplish tasks I never dreamed I could do. My involvement with extracurricular activities, such as intramurals, student government, and CIM, provided me with an outlet when the academics became overwhelming. They also allowed me to develop personal strengths. Once again, my professors were involved in many of these activities. In so many areas of my life, they have left a fingerprint that reflects their expertise, compassion, and involvement. I hope to emulate that with my own students. So, on Monday mornings, as I look out at my classroom of bright and eager faces – okay, maybe they're

tired and stressed faces – and they ask me why atoms have protons and not something else, I can reflect back on the great wisdom of my former professor Dr. Marks and reply, "for the same reason that ice cream doesn't have bones." And once again, I will remember my college days when learning was sometimes difficult, but also challenging, and friends were made that would last a lifetime.

## **Dean's Corner**

**by David Redfield, Dean of Health and Science**



Greetings to all of you as we work through the meaning of September 11, 2001. The effects have been both subtle and dramatic. Students preparing for their future, wonder what changes this will bring. Alumni and faculty hear of friends and acquaintances that were closely affected by those events. Even now, we are caught up in concerns about our mail and its potential threat and concern about the loss of life occurring in Afghanistan. We all work at understanding: why; how should I respond as an individual; and how should I respond as a Christian? As faculty we have the additional responsibility of modeling Christ's likeness for our students and facilitating their investigation of their thoughts and feelings.

Writing before September 11, I would only have been telling you about the new faculty in nursing and physics, reporting to you that the initial accreditation team report of findings by CCNE was extremely positive and the reviewers will report that all standards were met-highlighting that there are 269 students in the School of Health and Science (70 in nursing), boasting that freshman enrollment at NNU is up, reporting that Dr. Dan Nogales was successful in a resubmission of a grant to NASA for funds to create a new science course for pre-service teachers, and proudly boasting that we had 12 students presenting posters and two speaking at the M. J. Murdock Undergraduate Research Conference at Gonzaga University on Nov. 2-3. Now, somehow, those all seem somewhat tempered by the events of September and by the response of the students to those events. While some of the same activities —times of prayer, moments of silence, outpouring of gifts— have also occurred at public and non-Christian private universities, I believe the responses of our students are the result of the same quality and character which sets them apart when they graduate.

I thank you for your concern, your prayers and your influence on the behalf of the faculty and students. Again, we would love to hear what is going on in your lives. Drop us a note on the SMA E-mail ([sma@nnu.edu](mailto:sma@nnu.edu)) or by written correspondence. You can check out this SMA Newsletter and other Newsletters out on the Web at <http://interests.nnu.edu/healthandscience>.

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