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FHSU – Thanks for the Memories

In the spring of 1982 I was in my fifth year of teaching at Victoria High School. Our first son, Brent, was a year old and my husband and I had struggled finding a reliable, nurturing babysitter for him. After one particularly frightening experience, I had had enough. I loved my job, but I loved my son more, so I resigned my position to stay home with him. In the spring of 1983, I got a call at home from Dr. Ellen Veed, Math Dept. Chair. I still remember her first words: "Well – are you bored yet?" I had to admit, maybe a little. With two degrees from FHSU, I was very familiar with the department and the faculty, and they knew me. Dr. Veed asked if I would like to teach a couple of College Algebra classes for them the following school year and Brent could go to Tiger Tots, a new on-campus pre-school that had just opened up. I accepted. In those days, enrollment closed at 65 for Gen Ed classes. My first semester I taught 130 students in two sections – quite a change from Victoria High School. That year I also got pregnant in August with our second

son, Jared. He was due in May, after finals, but wouldn't you know it, he came two weeks early. Dr. Jeff Barnett and Dr. Ervin Eltze filled in for me at the end of that year. The following year I stayed home with my boys. But the year after



that, I got another call, and I've been here ever since. During the past 27 years I have taught half-time, full-time, three quarters-time, 90% time (don't ask) and night classes. I have watched my colleagues morph from my former teachers into my former students. In both cases, they were the best, most congenial colleagues I could have ever hoped for. I have taught every Gen Ed offered in the department (some against my will. Dr. Sandstrom said it would "stretch" me. I had a different word in mind.) I have attended and presented at countless

conferences (and got snowed in for 3 days during one of them!) I have attended 31 FHSU Math Relays, first as a participant bringing students from Victoria, up through coordinating the entire event. I have traveled all over the state for Scholarship SRPs, edited the Newsletter, organized the Library, and written countless common finals. I also sponsored Math Club and KME for more years than I can remember. There were softball games, mud volleyball games, dress-up Halloween parties, Santa gifts (with Santa in attendance), Find-the-Party parties, and Scavenger Hunts (One student got a speeding ticket while racing back to the party – you know who you are!)

But I did not choose my profession for the Service or Scholarship. I am a Teacher, and that is why I have been here for 27 years. Thousands of students, some more memorable than others, have passed through my door, and each one has taken a little piece of me home with them. Twenty-seven years ago I believed that teaching was a noble profession. I still do.

So why then, am I retiring early? Here's my answer. I don't want to be that aging quarterback who lost his spark and stayed in the game one season too long. I want my last play to be a 60 yard pass into the end zone for a touchdown. I'm warming up my arm...

Math Relays 2011... or... How Well Did the New Card Reader Work?

By Bill Weber



Nolan Trapp, Bev Unruh, Keith Dreiling, and Paul Flesher take care of registration at Math Relays.

Preparation for the 2011 version of Math Relays was quite interesting. Too interesting. We had just been through the broken card reader incident the year before and had purchased a new reader, so obviously even with the best laid plans, even calm and relaxed Bill (that's what people tell me), had to wonder what this year's Relays would bring.

Turns out, there wasn't a mon-

ster at the end of the story, and the Relays were a complete success! This is due to the countless hours of preparation, planning, and coding done by Dr. Zeng, Mr. Sadler, and Bev. I am so fortunate to work with such great people on a daily basis! We are also now closer to having a completely online registration system, but most importantly feel more confident that we won't have our card reader break down during the Relays or Finals Week!

In class 1A, the overall team winner was St Johns

Catholic, in the 2A/3A category, TMP-Marian, and in the 4A-6A category, Hutchinson took top honors. For a complete listing of team placing and individual winners, please check our website <http://www.fhsu.edu/macs/Math-Relays/Past-Winners/>

The 34th Math Relays will be held on Thursday, November 8, 2012. We look forward to another fun day of around 600 students coming to FHSU to take math tests!

Dr. Hongbiao Zeng's Sabbatical Leave

Dr. Hongbiao Zeng was on sabbatical leave during spring semester 2011. This sabbatical leave was originally approved for 2009 -2010 academic year. Due to economic reasons the sabbatical leave was postponed to 2010-2011. Dr. Zeng's original plan of visiting Southeast University in China could not be fulfilled but he found many other activities to occupy his time.

During his sabbatical, Dr. Zeng worked with Dr. Keyu Jiang, an associate professor from Department of Informatics to apply for the Department of Defense Information Assurance Scholarship Program funds. The

amount of \$1750.00 was awarded with optional \$374,556.36.

Dr. Zeng also spent a lot of his sabbatical time writing new software for the department Math Relay's event. The new software was successfully used in 2011. This software handles registration, grading, and generating reports for the event.

Dr. Zeng submitted two problem proposals and four research papers as author or co-author. Two problem proposals were published in the *Pentagon* math magazine and one paper was accepted to be published in the *Journal of Business & Leadership: Research, Practice and Teaching*.

Summer 2012

ONLINE

MATH 010 Intermediate Algebra

MATH 110 College Algebra

MATH 250 Elements of Statistics

MATH 331 Calculus Methods

ON CAMPUS

MATH 660 Partial Differential Equations — 10:20-11:35 M-TH

Students preparing for Math Relays



Mathematics Faculty Assist with Science Olympiad

Science Olympiad is a national, non-profit organization dedicated to improving the quality of K-12 science education through participation in Science Olympiad Tournaments and incorporation of the Science Olympiad into classroom curriculum.

Science Olympiad competitions are like track meets, consisting of 23 individual and team events. Each year, events are updated to reflect the ever-changing nature of biology, earth science, chemistry, physics, computers, astronomy, engineering, and technology. By combining events from all disciplines, Science Olympiad encourages a wide cross-section of students to participate.

Students who participate in Science Olympiad are taught advanced science through active, hands-on participation. All events involve team work, group planning, and cooperation. There are now over 5,500 middle schools and high schools from all 50 states who participate in Science Olympiad.

The Department of Mathematics and Computer Science at Fort Hays State University has been actively involved in coordinating, organizing, and judging events for the past several years. Members of the MACS faculty were involved in the 2012 Regional Olympiad held on February

14 and 16. Keith Dreiling judged Helicopters for the middle school students. Bill Weber judged Write It Do It for both divisions. Mission Possible was judged by Jeff Sadler on Feb 14. Bill Weber assisted with Fermi Questions while Tej Strestha judged Compute This for Division B. If you ever want to help with or observe a Science Olympiad competition, contact Lanee Young. You will enjoy the experience of watching these young minds at work.



Tej Shrestha Joins MACS Faculty

I was born in a remote, small village in the Middle East hilly region of Nepal in 1966. My parents and older brothers were farmers. I started my schooling in 1970 in a small primary school which was about one hour walking distance from my parents' home. After I completed 3rd grade I had to go to high school, the nearest one was two-and-a-half hour walking distance from my father's house. So, I stayed in a room shared with friends. We had only one-day weekends and I had to use that one day to bring a whole week's worth of groceries from my parent's place. I prepared meals, cleaned dishes, and continued my studies, finishing high school in 1982.

I attended Tribhuvan University in the capital city of Nepal, Kathmandu, in 1983. At the time it was the only university for Intermediate of Science (ISc) study. I completed my ISc degree in 1986 and continued my higher studies while working as a full-time high school mathematics teacher. I worked there for six years and completed my MS in Mathematics from Tribhuvan University in 1991.

My university teaching career began in 1992 in one of the beautiful cities in Nepal, Pokhara. I taught university and high school classes there for more than 7 years. I then moved to the capital city, Kathmandu, in August 1999 and started teaching in one of the first and largest private engineering colleges in addition to my full time university teaching.

In Fall 2003, I was admitted to the graduate program in the Department of Mathematics at Kansas State University. I am thankful to K-State for offering me graduate admission and a teaching assistantship. I worked as a GTA in the KSU Department of Mathematics until I earned my PhD in Mathematics in 2010. I had the opportunity of teaching College Algebra, Trigonometry, General Calculus, Calculus I, II, III, Differential Equations, and Matrix Theory (MATLAB) [recitation as well as full responsibility (in summer)].

I joined the University of Wisconsin, Washington County, West Bend as a Lecturer in the Department of Mathematics in fall 2010 and worked for one year. I taught multiple sections of Intermediate Algebra, College Algebra, and Trigonometry in fall, interim, spring, and summer.

In Fall 2011, I joined the Department of Mathematics and Computer Science at Fort Hays State University as an Assistant Professor. I taught Calculus I and Elementary Statistics in the fall and am teaching Linear Algebra, Calculus Methods, and Elementary Statistics this semester. I am blessed to be here with helpful, friendly, and kind people in the MACS Department as well as the university.

I am living here with my wife Sumana Pradhan and son Saurav Shrestha.



Trevor Siebert, Keith Dreiling, and Gloria Johnson at the Halloween Party

The activities of KME/MACS Club are neither strictly increasing or strictly decreasing. The KME Spring 2011 Banquet was held in The Memorial Union on May 9. The new initiates were Emma Dreiling, Paul Flesher, Linnea Gustafsson, Emily Lowry, Kaitlyn Paul, Landon Taylor. Dr. Rory Terry, professor of economics, illuminated the connections between the world of mathematics and finance.

KME/MACS Club News

This fall KME/MACS Club kicked off the new school year by meeting with all freshmen math and computer science majors. A pizza party was held with all students and faculty late in the fall. . . the faculty ended up eating a lot of pizza. I wonder if Dr. Dreiling forgets to tell students on purpose. The annual softball game was not held this year. Many of the faculty were busy watching their kids play soccer and chess on the weekends so the season was suspended. A MACS Club Halloween Party was held at Steven and Judy Brummer's house. There were some inter-

esting costumes worn by faculty and students alike. Steven, Ethan, and Ella did a great job of creating a haunted house for the MACS students. Faculty and students enjoyed eating Mexican food and playing games together.

Pi Day was celebrated with real pie on March 14 (of course). We had over 15 pies and many attended.

We are continually looking for activities that the students and faculty can do together but it is difficult to determine the optimal time to maximize student involvement. Hopefully there will be more parties this spring.

GRATITUDE TO MACS DEPARTMENT ALUMS and FRIENDS

The Department of Mathematics & Computer Science enjoys this opportunity each year to list the donors who have given so generously to our department. Without your contributions it would not be possible for us to award scholarships to our deserving majors. Please check out the list of students receiving scholarships on page 10 of this newsletter. We wish to thank each of you who have shared your financial resources with the University, and especially wish to thank those of you who designated the MACS Department as recipient. We also appreciate the employers who matched your contributions. Individuals or companies contributing to the Spring 2011 campus drive or Fall 2011 Tiger Call are:

Thyla Aldrich, Lavern and Cari Andrews, Al and Tina Anguish, Gary and Bernice Bell, Charles and Charlotte Bigler, Shannon Billinger, Rex and Beverly Blanding, Stacy Boyd, Susan Bozeman, Jerry Braun, Stephen and Judy Brummer, Darren Brungardt, Charitable Gift Fund of Fidelity Investments, Kent and Lisa Colwell, Willis and Alma Crabtree, Mary Cunningham, Craig and Anita Curtis, Thomas and Emily Decker, David and Theresa Dilley, Mary Dinkel, Kyndra Dobson, Scott Claassen and Francine Dreiling, Keith and Pam Dreiling, Kay and Mildred Dundas, Carolyn Ehr, Casey Eichenauer, Kenneth Eichman, Gregory and Shelley Feist, Leslie and Karen Freeman, Gary Kipp, Vernon and Virginia Kisner, Norwin Kohls, Richard and Sandra Kratzer, Mike and Carmen LaBarge, Darrell and Sheila Latham, Larry and Donna Leitner, Don and Linda Lesovsky, Erik and Bryna Sandstrom, Ron and Cathy Sandstrom, Robert and Christine Sauber, James Schieferecke, Jeanine Schieferecke, Dan and Mary Kay Schippers, Daniel F and Mary Kay Schippers Family Gift Fund, Ronald and Kim Schmidtberger, Bryan and Melissa Schoepf, Janet Schuetz, Justin and Wendy Scott, Timothy Seltmann, James and Lida Sharp, Pat and Kathy Spicer, Gail Stanley, Robert and Lucretia Streit, David and Betty Taylor, K & L Trimmer Foundation, Ken and Linda Trimmer, Blake and Crystal Vacura, Douglas Vahle, Ellen Veed, Charles and Reta Votaw, Charlene Weber, Bill and Tiffany Weber, Donald and Mary Werner, Joe and Sandra Whitley, Gary and Virginia Wilson, Rex and Margaret Wilson, Marilyn Wilson, Leroy and Sharon Winklepleck, Wilbur and Shirley Wood, Lane Young, Hongbiao and Michelle Zeng, Eugene and Mary Zimmer

Apologies are extended if someone's name was inadvertently left off the list. We appreciate each and every donation received! These contributions are so important in allowing us to attract and retain mathematics and computer science majors; which then gives these students the opportunity to become successful citizens such as yourself. If you know of any potential mathematics and computer science majors, please let us know by sending us their names.

Where Are They Now?



The last time I was a student on FHSU's campus, I was taking 17 credits of upper division classes, 10 of which were math courses (including my senior thesis). Surprisingly, I survived. Now, after my wedding in Washington, a month adventure to Thailand, Japan, Korea, and California, a year studying in Nova Scotia to finish up a second degree, and a graduation celebration at FHSU followed by a brief move to Ontario, I've landed back in Hays managing the sales and operations for a small architectural visualization firm by the name of Global 3D Arts.

Global 3D is a specialty company that builds custom scale models and 3D photo-realistic media such as renderings and animations. The projects are typically schools, universities, hospitals, housing developments, franchises or other large construction projects, but the variety of project types is vast. A few of the projects we are currently working on include a lighted, interactive scale model of FHSU's campus complete with the new Tiger Place Suites and the soon-to-be Schmidt-Bickle Training Facility, a 3D photo-realistic animation of a proposed mining site in North Carolina,

and a half liberty bell replica. We also just recently completed a 3D realistic animation of a proposed, multi-story car dealership in Miami as well as a scale model of Michigan's capitol building that was used as a casting mold for a 'Students Re-inventing Michigan' award. Each project comes to life simply because someone is trying to make their idea a reality, and they need someone to help them (as well as their investors and prospects) to visualize it.)

The company is small and each project (and client) is unique. This means that everyone working at Global 3D wears many hats. For example, I do everything from closing deals to managing finances and logistics to sweeping miniature sidewalks. I've also been managing several websites and transitioning the company operations to 'the cloud' to improve our efficiency and communications. With most of our clients and employees elsewhere in the world, my job has inherent flexibilities and challenges. Everything relies heavily on flexibility, adaptability, and communication. For example, I was juggling freight logistics from Asia for a project in Philadelphia while at a resort in Mexico last week. The uniqueness of each project also means that no 'standard' answers are laid out to follow. The ability to foresee and solve problems before they ever have a chance to occur is an incredibly powerful tool; it's remarkable how much time and money a little bit of foresight can save!

Despite the variety in projects and tasks, several technologies are essential to all

aspects of my job. For example, I regularly use tools such as Quickbooks, Excel, Joomla! (a user-friendly content management system for websites), Solve 360 (a gmail integrated, cloud solution for customer relationship management), and various Google Apps. I also use communication tools such as Yahoo!, gmail, and Chikka chats as well as various email/vmail/fax/webform to text programs. Since most of our projects are architectural in nature, I also frequently have to review and discuss AutoCAD, DraftSight, Google SketchUp, and 3ds Max files and be able to understand and visualize blueprints, site-plans, floor-plans, and scales. Every once in a while, though, I get my hands dirty and plant a miniature tree! At the end of the day, I go home to my husband, Brent, and our rescue mutt, Ember, and I wonder, "What will tomorrow bring?"

by Rita Risting

Torch Award 2011



Troy Morash, a 2011 graduate in Mathematics and Michelle Webb, a 2011 graduate minoring in mathematics were finalists for the Torch Award 2011. Michelle was the winner of this prestigious award.

Torch Award Winner 2010-- Andrew Leiker



Andrew received degrees in math and physics in 2010. He spoke at the Graduate & Faculty Brunch on May 13, 2011. Below is the transcript of his speech.

Hello everyone. It is definitely an honor to be with you today and congratulations to all of our future graduates. After receiving the Torch Award last spring, I was fairly sure I would be the first torch recipient not invited back. Well, to my surprise and possibly to the dismay of some of you, I was asked to join you here today. Do not worry though. I will try to keep my speech brief.

Thirteen years ago, I had my first experience at Fort Hays State University when I was a Boy Scout spending an entire weekend camping in front of Gross Memorial Coliseum. Most of my memories of that long weekend are marred by rain, but I do remember one thing specifically: I remember telling myself that I would never come back to this muddy campus again.

Unbeknownst to my younger self, I would end up on the Fort Hays State University campus many times as I grew up in Hays, and not until seven years after my truly traumatic Boy Scout experience did I come to appreciate the silliness of the statement I had made. In fact, it was six years ago, in this very room that I began to understand Fort Hays State Uni-

versity's excellence. At that point in time, I was a TMP-Marian student competing in the 2004 FHSU Math Relays.

There is a common theme not only characteristic of the FHSU Math Relays but of many exceptional FHSU events, such as the student government's big creek clean up or the physics department's physics road show. This common theme is also entrenched in multiple aspects of the day to day activities taking place on the FHSU campus and presents itself in the teaching of numerous FHSU faculty members. That theme is selfless contribution, as evidenced in the student governments' environmental clean up, the physics road show's commitment to education, and many other areas on campus. Every day FHSU gives back to its graduates, students, the community of Hays, and all of Western Kansas, and for this I am truly thankful. Yet, saying thank you to FHSU the institution is rather abstract and does not do justice to the individuals that constitute Fort Hays State University. Therefore, I would rather specify that I am indebted to the people: the faculty, the employees, and the alumni of Fort Hays State University for not only making our university great, but for giving back to me and my community.

Without diminishing my gratefulness for everyone's contributions, I would feel like I was cheating the College of Arts and Sciences Faculty and my former research advisor Gavin Buffington without specifically mentioning the positive impact they have had on

my life. I am sure the same goes for all of the 2011 graduates. There is a faculty member or FHSU employee who has stood in your corner and pushed you to strive for more, an individual who has had a positive impact on your life not out of narcissism but rather genuine interest in your well being. With that in mind, please remember that it is never too late to say thank you.

Still one thing remains missing from my speech. I have not said thank you to the students. The possibility of FHSU giving back to the community is a minute point without you, specifically the soon-to-be graduates. You have worked so hard and deserve much of the credit for making Fort Hays State University an amazing place. I know that with the efforts you have put forth and the time the faculty has invested in you - many of you will go on to do great things in your lives. I say this because much of my own growth that took place during my four year undergraduate career at Fort Hays has already greatly contributed to the work I do as a first year medical student, such as doing clinical research or writing health care policy. I debated whether or not I should have brought these points up earlier, but then I realized each individual's experience at FHSU is so unique that it provides an appropriate culmination. It gives you the opportunity to reflect on your career at Fort Hays State University and consider how you have grown stronger. Thank you and I



2011 GRADUATES

Allisson Sommers, Rita Gnizak-Risting, Kylie Simpson, Troy Morash, Devon Mitchell, Bill Allen, pictured with Lanee Young, Keith Dreiling, and Jeff Sadler.

Adam Falcon – Computer Science

Mark Garrett – Computer Science

Mark is attending graduate school at the University of Dallas.

Bill Allen – Mathematics/Teaching

Bill is teaching at Ness City High School.

Nichole Delzeit – Mathematics/Teaching

Nichole is teaching at Dodge City Middle School.

Emily Lowry - Mathematics/Teaching

Devon Mitchell — Mathematics/Teaching

Devon is an intern with Focus International in Wichita.

Allison Sommers – Mathematics/Teaching

Allison is teaching at Victoria High School.

Rita Gnizak-Risting – Mathematics Industrial/Academic

Rita married Brent Risting on July 31, 2010 and is the operations manager at Global 3-D Arts in Hays. She intends to pursue her PhD in applied mathematics.

Troy Morash - Mathematics Industrial/Academic

Troy is working at First National Bank in North Platte, Nebraska

Kylie Simpson - Industrial/Academic

Kylie is working full time at Hays Veterinary Hospital. She and Greg Sander are planning an October 2012 wedding in Hays.

Alumni News

Jeff Porter

Jeff is still working for IBM, but relocated from Denver to Norton about six years ago to be closer to family.

Jerold Harris '89

In June 2011, Jerold was honored by the National Science Foundation as a state finalist for the Presidential Awards for Excellence in Math and Science Teaching, the highest recognition a kindergarten through 12th-grade math or science teacher can receive for outstanding teaching in the United States.

Harris, who has been teaching at Hays High for 15 years, was chosen as one of three Kansas finalists in the math teacher category. State final-

ists received \$500 each and earned the right to compete at the national level.

Judy (Braun) Brummer '93

Judy completed her Master's degree in 2011 at FHSU. She earned her MSE with an emphasis in mathematics and is now employed full-time as an instructor in the MACS department.

Mark Pahls '95

Mark and wife, Angie, are the proud parents of son number five. Samuel Nicholas was born December 27, 2011. He has four brothers, Dylan, Benjamin, Jacob and Elijah. Mark continues as an adjunct in-

structor for the MACS Department and his wife Angie teaches art at TMP-Marian High School in Hays.

Megan (Helm) Alexander '98

Megan taught math for seven years in Goddard before obtaining her counseling degree from Wichita State University. She has been a counselor in Goddard for five years.

Submit your news for next year's MACS newsletter by emailing jmbrummer2@fhsu.edu or visiting our Facebook page at <https://www.facebook.com/pages/Fort-Hays-Mathematics-Computer-Science/209949342349529?sk=wall>

Retired Faculty News

Erv Eltze

We have not been doing much traveling recently. Our news is that we are having a house built in Olathe and should be moving sometime this spring. I have learned that it is impossible to know when a builder will finish a house. It is a ranch style, handicapped accessible, with a bedroom and large family room in the basement and an elevator, which seems to be part of the delay in getting it finished.

Ruth Pruitt

I spent several weeks in the hospital this fall and although I have recovered from the abdominal surgery I am still suffering ill effects due to my MS. The six grandchildren, ages four to twelve, are growing too quickly. The Oregon bunch flew in for Christmas but had to land in Great Bend because the Hays airport was closed due to a blizzard. They enjoyed the snow, more than they ever get at home. We Skype the ones in Arkansas occasionally to keep up with them.

Charles Votaw

As usual, we have not done much out of the ordinary this past year. Probably the most notable from our point of view is that our family (minus one granddaughter) was together for Christmas this time. It has been several years since that has been possible. Especially significant is that our grandson was able to be here after having served in the army for four tours of duty in the Middle East. We're hoping he won't have to go back. Otherwise, we're pleased to be in reasonably good health.

Rosalie Nichols

For us it has been a very full year. We were in Las Cruces until the middle of March. We put our house in Hays on the market at the end of March and it sold in two days! We made one trip with a rental truck to give furniture to our children in Pittsburg, Kansas, Kansas City, and Lincoln, Nebraska and another to bring things to Las Cruces.

We took a small ship cruise up the coast of Maine in July. We took several road trips -- to San Francisco and Alexandria, Virginia for Weeden's Clan MacLeod and some trips in our small plane to see family. Carolyn Ehr owns a condo close to ours and we see her often. We are enjoying sunshine and a dry climate.

Ron Sandstrom

When we received Keith's note for a report of our activities, Hays was reporting 19 degrees. We were on a beach in Hawaii where the temp was 73 degrees. Sorry about that. As some of you know I have been teaching two on-line classes each semester. It sure is nice being able to do that from Hawaii, Maine as it was in October, or Derby in December taking care of the boys. Other trips included a cruise to 7 Baltic Sea countries in August and a week in Ouray, Colorado for Cathy's family reunion. I am still preaching about once a month in our local four church parish and have become a darn accountant. I have agreed to keep the books for the Rush County Historical Society and Rush County Relay for Life. It was a good thing this summer was so hot and dry because I have not had time for gardening. Not really—I am going to put up some sunshade this summer. I sold my 53 Cadillac for scrap when it came time to putting it back together and it was going to take more money than I was willing to put into it.

Cathy is still doing a prayer shawl ministry along with 20 some pairs of socks. I even got a pair. Her main job however is making sure I stay outside and don't interrupt her routine.

Elton Beougher

I decided I'd better write for the newsletter so Keith doesn't make up something about me. I don't have too much to tell. You don't want to hear about my aches and pains. We don't have a dog that does cute tricks. We have 13 grandchildren and they are so intelligent and have achieved so much it would fill the whole newsletter. I have so much retirement money coming in I can't spend it fast enough. Maybe I should have let Keith make up stuff. He could probably have done a better job.

Carolyn Ehr

My home for the last six months has been (and is) Las Cruces New Mexico just north of El Paso and the Mexican border. I am classified as a snow bird since when winter approaches in Hays, I fly south. There is so much new to learn about such as culture, history, geology, customs, religious practices and so on...as I am the immigrant in a foreign setting. And loving it. I will be back by the end of March to check in with all of you. Peace.

The Activities of Non-Retired Faculty

The Mathematics and Computer Science faculty are actively involved in original research, publication, presentation, problem solving and proposing. The following is a partial list of scholarly activities by the department in 2011.

Co-submitted grant proposal to NSF for the Noyce Scholarship Program. Submitted a proposal to present at NCTM Regional Conference in Fall 2012. Presented "Using Logic Puzzles to Develop Number Sense" at KATM Conference in Topeka. *Real Risks in a Virtualized World: How Virtualization is Changing the Way We Manage, Assess, and Mitigate Risk*, accepted to be presented at the 2011 Business & Leadership Symposium, Hays, Kansas, October 10-11, 2011, *A Forensic Analysis of Windows Registry*, accepted to be presented at the 2011 Business & Leadership Symposium, Hays, Kansas, October 10-11, 2011. *Security Issues of Current Home Based WLANs*, accepted to be presented at the 2011 Business & Leadership Symposium, Hays, Kansas, October 10-11, 2011. *Information Filtering Against Information Pollution and Crime*, accepted to be presented at the 2011 Business & Leadership Symposium, Hays, Kansas, October 10-11, 2011. *On Digit Partition and an Interesting equation*, The Sixth International Conference on Dynamic Systems and Applications, Atlanta, GA, May 25 – 28, 2011. *Teaching RSA Using Spreadsheet*. MAA Kansas Section Meeting at Baker University, Baldwin City, KS, March 4 -- 5, 2011. Problem 679, *The Pentagon*, Page 59, Volume 70, Number 2, Spring 2011. Problem 680, *The Pentagon*, Page 59, Volume 70, Number 2, Spring 2011. Department of Defense, Information Assurance Scholarship Program, rewarded \$\$1750.00 with optional \$374,556.36. 2011 – 2012. FHSU Faculty Summer Research Grant, summer 2011. CCSC 22nd Annual South Central Regional Conference, Huntsville, TX, April 15 – 16, 2011



There are no words to describe what happened here....



Trevor Siebert, Kaylee Sotelo, Christopher Stevens, Greg Traffas, Bill Weber, Tiffany Weber, and Keith Dreiling enjoy watching the dunk tank.



Left: Judy Brummer and Dr. Elton Beougher laugh as Bill and Lanee get dunked.
Right: Bill Weber waiting to get dunked... again.



Scholarship Awards for 2011-2012

by Jeff Sadler

The tradition of financially supporting numerous MACS Department students through scholarships continued as more than \$25,000 in awards was provided over this current academic year. The scholarships were funded primarily from the generous contributions by alumni and friends of the MACS Department. The department is blessed to be continually supported by so many alums who continue to financially support the MACS Department's mission even within these more challenging economic times.

As in the recent past, MACS scholarships are broken into three categories as listed below.

Nineteen dedicated students were awarded \$14,800 from the prestigious named-scholarships in the MACS Department. These scholarships are financed through both endowed dollars and newly received designated contributions, some also coming from those who "fed the Tiger" during the annual TigerCall Telethon. The following FHSU students received both the deserved recognition and related awards:

Cosme Chavez (Scott City)—Ron and Cathy Sandstrom \$1000 Scholarship
Shawn Davis (Mankato)—Ruth and Roger Pruitt \$1000 Scholarship
Naomi Kitzis (Hays)—P. Miller Math/Physics \$1,000 Scholarship
Jami Norman (Holcomb)—Toalson \$1000 Scholarship
Josh Platt (Syracuse)—Tebo Family \$1000 Scholarship
Paul Flesher (Hays)—Moore Family \$1,000 Scholarship
Kaitlyn Paul (Salina)—Moore Family \$1,000 Scholarship
Daniel Schneider (Olmitz)—Moore Family \$1,000 Scholarship
Nolan Trapp (Susank)—Moore Family \$1,000 Scholarship
Emma Dreiling-Meier (Hays)—E.E. and L. Colyer Memorial \$800 Scholarship
Victoria Koehn (Wichita)—E. Veed \$800 Scholarship
Trevor Siebert (Colby)—Denio \$800 Scholarship
James Beard (Peyton, CO)—O.E. and P. Etter \$600 Scholarship
Gloria Johnson (Garden City)—Marshall \$600 Scholarship
Travis Patzner (Hays)—C.W. Lowry \$600 Scholarship
Margo Sattler-Voth (Scott City)—Baxter \$600 Scholarship
Kaylee Sotelo (Dodge City)—Frances E Shockley \$600 Scholarship
Erin Deenihan (Hill City)—Ogle \$400 Scholarship

Also, thanks to the generosity of the TigerCall supporters, the department was able to award \$2,200 in MACS Departmental Scholarships, the second category of awards. The 2011-2012 department scholarships ranging from \$200 to \$500 were awarded to:

Nikolaus Boyle (St. John)
Paul Flesher (Hays)
Christopher Day (Hays)
Kurtis Hass (Holyrood)
Erica Johnson (McPherson)
Jocelyn Lytton-Adams (Hays)
Allison Schley (Englewood, CO)
Thao Tran (Salina)

Nolan Trapp, Allison Schley, Josh Platt, Kaitlyn Paul, Gloria Johnson, Paul Flesher, Emma Meier, Shaun Davis, and Nick Boyles received recognition at the Scholarship Reception.



In its fifth year, the Academic Opportunity Awards (AOA) continued to be a valued scholarship for incoming freshmen to the MACS department. This final category of scholarship provides a two-tier structure with award amounts of either \$900 or \$500. The award and amount was based upon a student's interest in pursuing a degree within mathematics or computer science as well as upon the student's high school academic achievement and ACT/SAT scores. This past year, thirty-eight AOA scholarships worth over \$24,000 were offered to students interested in beginning a degree program in mathematics or computer science at FHSU. From this group of prospective students, eleven began classes in Fall 2011 for a total of \$8,300 in scholarships. Those students included:

Taylor Gordon (Norton)
Garret Hinckley (Lansing)
Dylan Hogan (Winfield)
Daniel Jecha (Wichita)
Cody Killingsworth (St. Francis)
Brian Smith (Maxwell, NE)
Shane Lynch (Chapman)
Ryan Markloff (Sumas, WA)
Robert Mayor (Broken Bow, NE)
Tanner Nulton (Allen)
Connor Storer (Cawker City)

Students awarded scholarships frequently express their appreciation for the financial assistance received, especially after realizing the support came from the donations of MACS department friends. If interested in contributing either new or continued funds to any of the above MACS scholarships area, please do so by sending a check to the MACS department payable to the FHSU Endowment Association—specify the mathematics scholarship fund of interest on the memo line.

Additionally, the MACS department asks alum and other friends for assistance in encouraging any local high school students with an interest or talent in computer science, mathematics education, or mathematics toward higher education at FHSU. The department has a goal to consistently have at least thirty well-prepared freshman begin higher education in mathematics and computer science at FHSU during the fall semester after their high school graduation. To have any hope of reaching this goal, the department needs the help of its friends in various communities to connect with such students. If there are questions about departmental scholarships or if desiring to help identify and/or recruit possible future MACS students, contact Jeff Sadler at jsadler@fhsu.edu or (785)-628-4416.