FORT HAYS STATE UNIVERSITY

VOULUME 38 SPRING 2011

MACS NEWSLETTER

MATH & COMPUTER SCIENCE DEPARTMENT

INSIDE THIS ISSUE:

THE JOURNEY TO A MACS DEPARTMENT FACEBOOK PAGE — BEV UNRUH

Hello! Allow me to introduce myself. I am Bev Unruh, Office Administrator for the MACS Department. Some of you may remember me from your days taking courses in the Mathematics & Computers Science Department while you were obtaining your degree. (Yes, I am still here!) I am in the process of learning and creating a departmental Facebook page. At the time you receive our newsletter, I am optimistic our page will be published and ready for friends!

The department's wish is our page will help you, our alumni, re-connect with your former classmates and the department, keep you and current students updated on department news and events, serve as a platform to allow discussion of relevant mathematics or computer science topics and assist prospective students in getting better acquainted with our department. We think it will also be a great way to acquaint you with our current students and allow you to share challenges and changes in the workforce.

The idea of a MACS Department Page started while I was glancing over our departmental scholarship donor list. I noticed several familiar names from the past while browsing over the list. I caught myself wondering, "where are they now"? and "what are they doing?". With the Foundation changing the way donations are requested with Tiger Call, our department doesn't have the opportunity to visit with our graduates and get the updated family and work news, or updated address changes as we have in the past from those personal calls. My desire is that a department page will change that and provide you with an opportunity to keep us updated with you; and you with us!

Wish me luck on this endeavor! Better yet; join me on the journey! Please check out Fort Hays Mathematics & Computer Science Page and add us to your Facebook account . I look forward to "seeing" you on the Fort Hays Mathematics & Computer Science Facebook Page!

RETIREMENT IS ON THE HORIZON

Not so much on the horizon for Darlene Plymell, as May 16 is coming up quickly! Darlene has been teaching part-time College Algebra for the Department for the past three years. The department hired her after she retired from teaching at Hays High School. Darlene taught in the department for one year and decided she really wanted to see what retirement was like. However, after five years, Darlene decided she wasn't really ready for the retirement life and came back to the department teaching part-time again. But now, Darlene indicates she is definitely ready to retire. We think it is mostly to do with that new granddaughter, Breckyn who arrived December 9, 2010 to her daughter, Sherry McNeill Kinderknecht who is a 1995 FHSU Math Graduate. Darlene made the comment, "I've been in school all my life. I started kindergarten when I was six and went on to college and then started teaching." We will miss you Darlene, but send best wishes as you go into retirement (for the last time?).

CONGRATULATIONS DR. WEBER

It's official!! Dr. Weber successfully defended his dissertation "Effects of Requiring Students to Meet High Expectation Levels within an On-line Homework Environment" and graduated in Spring 2010.

WORDS OF WISDOM — TROY MORASH

Troy will graduate in May with his Bachelor of Science in Mathematics. He plans to attend graduate school to pursue his masters and PhD in mathematics.

So I was walking down the hall and suddenly a realization hit me… hard… in the face. This phase of my education and life is coming to an end and the next is about to begin. Excited? You betcha! But lying just below the excitement for the new beginning is sorrow for the end. The faculty, staff, and students of the MACS department are unlike any group of people I have ever met. The faculty truly want all students to succeed, not just the ones within the department. Many other faculty members have an office hour but the MACS faculty members are almost always in their offices and all are warm, welcoming, and happy to help. It is a department full of caring. In fact, the secretary, Bev, cares so much that the faculty made her an "I Care" button.

This attitude carries over to the students. Over the last few years I have had the pleasure of learning, exploring, and sometimes struggling with some of the most brilliant minds and genuinely decent people I could hope to meet. Naturally, being around such talent, I have been the recipient of many words of wisdom from both faculty and students. I would like to pass some of these thoughts on to my fellow students. Many are in the context of mathematics but really double as a life lesson as well.

~ *When doing math you cannot be worried about the difficulty of the topic or possible failure. Like any journey, the only way to approach it is to begin.*

~ *So many accomplishments are accredited to an individual's "genius". In reality, they just did the work that others would not. Don't sell yourself short; amazing accomplishments are not reserved for Mensa Members.*

~ *Don't worry about memorizing a collection of theorems. Instead focus on the idea and everything else follows naturally from it.*

~ *You come to understand that all course work speaks of the same system and each provides a new piece of the puzzle.*

~ *There is hard way to do things, it's usually what the book suggests and it takes a couple pages of writing. Then there is the smart way that takes a couple of paragraphs. Finally there is the right way and that only takes a couple of sentences.*

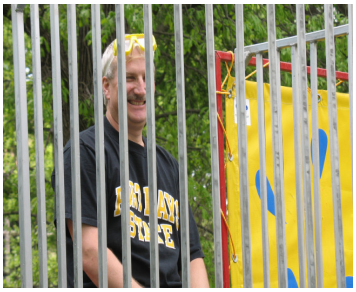
There are of course many more but I could never hope to sum up the wisdom within this department in a single article. If I could offer you one piece of advice I would tell you to keep your ears and mind open. Do that and the MACS department will not only teach you mathematics but also make you a better person. It did for me.

KME/MACS CLUB — LANEE YOUNG

KME/MACS Club is always within an epsilon of spontaneously bursting into a good time. The KME Spring 2010 Banquet was held in The Memorial Union on May 7. The new initiates were Justing Maughn, Sarah Mann, Joshua Platt, and Nolan Trapp. Dr. Catherine Clewett, professor of physics, shared her research in nanotechnology with the KME members and guests.

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 annual softball game followed by a barbeque in the park was held in late September. The students were within an epsilon of winning but the faculty were always able to score one more run. This spring students were heard trying to plan a student versus faculty snowball fight….luckily we all decided to go to class instead. MACS students and faculty love pie in any form. We have pizza together at least twice a semester. On March 14 at 1:59 PM (3.14159) we celebrated Pi Day with an assortment of pies including one with bacon!

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. We will continue to work together to sponsor activities for the MACS students to be involved in and out of the classroom.



Dr. Dreiling waits to get dunked in order to raise money for Reading Recovery Programs.

Daniel Schneider, Greg Traffas, and Kylie Simpson wait for their turn to dunk Dr. Dreiling

Charles Carlson and Tyrel George enjoy watching Dr. Dreiling get dunked.

New Faculty in the MACS Department — ELENA OURNYCHEVA

I was born in Rostov-on-Don (Russia), a city with population of more than 1 million and the administrative center of the Southern Federal District of Russia. In high school, mathematics was my favorite subject, and I decided to get my degrees from Rostov State University, the largest scientific and educational establishment of the South of Russia and the Northern Caucasus. The university was founded in 1915 when it was successfully transformed from Warsaw Imperial University. After earning my Ph.D., I taught at Rostov State University and the Moscow Branch of Rostov State Academy of Technology in Rostov-on-Don for 6 years. In 2001 I moved to Israel were I held post-doctoral positions in Bar Ilan University and Hebrew University of Jerusalem.

My teaching experience in the USA goes back to 2006. Before coming to Hays I taught at Kent State University and University of Pittsburgh in Bradford.

My mother Larisa is retired. She earned her master's degree at Rostov State University, Department of Physics. She taught at the Institute in Rostov-on-Don. Now she is here in Hays; she enjoys reading historical books in Forsyth Library. My grandmother Maria is 94 years old. She taught chemistry in high schools for 35 years.

I enjoy books and music, and I like to travel and see different states of the country. Before coming to the US, I traveled in Israel, Spain, Italy, Finland, and Egypt.

MATH RELAYS 2010 — BILL WEBER

The morning of November 9, 2010 started out just like any other Math Relays day. It was a cool morning, and the math and computer science faculty had everything ready for another 500+ students to descend upon our campus. As I walked around looking like I was doing something important (that's my job as Relays coordinator), I got a tap on the shoulder from Mr. Jeff Sadler, who helps run the computer scoring during the Relays.

Jeff, with a somewhat sinister snicker, told me the computer and card reader were all set up, but weren't reading the cards correctly! I laughed it off with him, and told him he was really funny. I had no reason to believe this story, due to the fact that we had joked earlier in the week that it would sure be funny to try to pull a trick like this on Bev sometime. But then he just stood there and kept laughing, and the reality of the situation began to set in… After some investigation, it was realized that the computer wasn't reading any of the letter C's on the cards, and unfortunately, we did have letter C as the correct answer on all the exams!

But thanks to the hard work of our faculty and students (we have awesome faculty and students!), we were able to survive the day. The card reader was used to score all the marks, and then each of the 1500 or so cards were individually checked for C's and the scores were adjusted to the correct totals. Unfortunately, this takes some time (and remember, I was only walking around looking important), so we had to cancel the awards ceremony. Finally, around 3:00 in the afternoon, all the cards were scored and we were able to get notices out to the schools of how they did the next day.

In class 1A, the overall team winner was Lakeside, in the 2A/3A category, TMP-Marian, and in the 4A-6A category, McPherson 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/

Students and faculty work to score exams for Math Relays

Hopefully, the 2011 Math Relays won't be quite as "exciting" for the MACS faculty. The 33rd Math Relays will be held on Thursday, November 10, 2011. We have decided never to host the Relays again on a Tuesday, because it sure was a long last 3 days of the week after what happened this year! We look forward to seeing everyone there, so we can test out our NEW card reader!!!

BEYOND THE SCOPE OF THIS DISCUSSION?

Online courses offered this summer:
Intermediate Algebra,
College Algebra,
Elements of Statistics
Calculus Methods .

Each summer the MACS Department offers an opportunity to take a class for persons not specifically in the mathematics education field.

With the MACS Department no longer offering on-campus courses, the department began offering one advanced topic course each summer that is not offered in regular semesters. Last summer Dr. Riazi taught a topology course. Summer 2011, Dr. Riazi is offering Partial Differential Equations – MATH 660. Partial Differential Equations is the study of partial differentiation, solution of partial differential equations, use of Fourier Series in the solution of partial differential equations, and applications to problems of physics. Requisites for the course are: PR, MATH 354 – Differential Equations or Permission.

This would be an excellent course for any person interested in engineering, wanting to experience a graduate course, or planning to go on to graduate school. This is an eight week course beginning on June 6 until July 28. The course will be held Monday through Thursday 1:20 p.m. – 11:35 p.m. in Rarick Hall 204.

Keep posted on our MACS Facebook Page and our Spring 2012 newsletter for the Summer 2012 advanced topic course!

GRATITUDE TO MACS DEPARTMENT ALUMS AND FRIENDS — BEV UNRUH

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 our deserving majors with scholarships which help defray the cost of their education. Please check out the list of these worthy students receiving scholarships noted in 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 2010 campus drive or Fall 2010 Tiger Call are:
Joan Albers, Lavern and Cari Andrews, Peter and Deborah Barclay, Paul and Angela Basgall, Gary and Bernice Bell, Elton and Wendy Beougher, Rex and Beverly Blanding, Sonny and Therese Blyn, The Boeing Company, Stacy Boyd, Susan Bozeman, Jerry Braun, Stephen and Judy Brummer, Darren Brungardt, Charitable Gift Fund of Fidelity Investments, Terry and Kerry Cleveland, Kent and Lisa Colwell, Vernon and Pricilla Cowan, Willis and Alma Crabtree, Mary Cunningham, Craig and Anita Curtis, Robin Deters, David and Theresa Dilley, Kyndra Dobson, Scott Claassen and Francine Dreiling, Keith and Pam Dreiling, Kay and Mildred Dundas, Kenneth Eichman, Ali and Maryam Farahani, Greggory and Shelley Feist, Leslie and Karen Freeman, Kathryn Fritz, Mickey and Lynnette Frownfelter, Betty Gingrich, Leroy and Mary Gnad, Sharon Hauge, Chad and Lora Heckman, Al and Marilyn Herren, Marvin and Marty Hines, Jerrod and Jess Hofaker, Kent Huffman, Roger and Teresa James, Justin and Amy Johnson, James and Judy Johnson, John and Regina Johnson, Brad Kearn, Vernon and Virginia Kisner, Norwin Kohls, Richard and Sandra Kratzer, L & L Consulting LLC, Mike and Carmen LaBarge, Darrell and Sheila Latham, Clint and Carol Ledbetter, Rudy and Maralyn Legleiter, Don and Linda Lesovsky, Aaron Lessor, Max and Thelma Liggett, Kelsey and Sally Long, Paul and Pat Luea, Donald Mai, Larry and Connie Masters, Daniel and Pamela May, Ronald and Debbie Miller, Regina Miller, Bob and Anel Minneman, Donald Molleker, James and Wanda Morford, Sylvia Nelson, Adam North, Merlin and Della Ohlemeier, Marty and Tonya Orth, William Peterson, James and Sharla Pfeifer, Larry and Darlene Plymell, Roger and Ruth Pruitt, Lynne Rahm, Mohammad and Seddigheh Riazi-Kermani, Roy and Eugenia Richards, Shayne Riley, Kevin and Jodi Ruda, Richard and Sharon Ruder, John and Becky Saddler, Jeff and Lori Sadler, Ron and Cathy Sandstrom, Robert and Christine Sauber, Dan and Mary Kay Schippers, Ronald and Kim Schmidtberger, Bryan and Melissa Schoepf, Joseph and Sandra Schon, Janet Schuetz, Shawn and Sarah Schwarz, Lance and Jada Sharp, James and Lida Sharp, Smith International, Inc, Pat and Kathy Spicer, Gail Stanley, State Street Matching Gift Program, Jim and Debbie Stelter, David and Betty Taylor, Textron, Inc., Ken and Linda Trimmer, Blake and Crystal Vacura, Ellen Veed, Charles and Reta Votaw, Charlene Weber, Bill and Tiffany Weber, Donald and Mary Werner, Joe and Sandra Whitley, Fred and Roxi Wilson, Gary and Virginia Wilson, Rex and Margaret Wilson, Marilynn Wilson, Leroy and Sharon Winklepleck, Wilbur and Shirley Wood, Lanee Young, 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.

SCIENCE OLYMPIAD — 2011

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 2011 Regional Olympiad held on February 8 and 10. Keith Dreiling and Elena Ournycheva judged Helicopters for the middle school students. Hongbiao and Michelle Zeng judged Write It Do It for both divisions. Mission Possible was judged by Jeff Sadler on Feb 10. Bill Weber was roped into helping with Junkyard Challenge while Longy Anyanwu graciously offered to judge Compute This for Divison 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.

WHAT'S SHE DOING NOW? — FRANCINE DREILING

When I started college in the early eighties, I knew I wanted to major in mathematics but I also knew I didn't want to teach. So in addition to the required math classes, my advisor suggested I take a computer programming and data processing class every semester. There wasn't a computer science degree at that time but this allowed me to graduate with a B.S. in Mathematics and a minor in data processing.

My first job was as an Operations Research Analyst with the Aviation Systems Command in St Louis. This U.S. military command purchased and maintained the helicopters for the U.S. Army. The job enabled me to use my education in mathematics, introduced me to Army helicopters and allowed me to travel to various areas in the United States. A little over four years after I started, we were hit by military cutbacks. Many of my friends went onto other jobs and I felt the job was no longer worth being over 500 miles away from my family. I also realized that changing careers to one in the computer science field would make me much more marketable.

In March of 1992, I accepted a job with the Kansas Department of Transportation in Topeka, KS as an applications programmer. Within the next seven years, I worked in three different departments within the state. I programmed in COBOL, FORTRAN, PL1, and C++. I became proficient in mainframe JCL, performed help desk tasks and installed computer hardware and software.

In 1998, I got married and moved to Boston where I accepted a job at State Street, an international financial institution. I honestly think I was offered the job because of the variety of my computer experience. I doubt there were many applicants that had both PL1 and C++ experience. I'm now one of the few people that still do mainframe work in addition to scripting in MS SQL and Perl.

My husband graduated from law school in 2000 and we moved to Kansas City. Although State Street had an office in Kansas City, none of the open positions at that time corresponded to my level or area of experience. My manager and I worked it out so that I would work from the KC office but still keep my job in Boston. At the time, the telecommunicating situation was unique. Since that time, State Street has made a concerted effort to make sure their departments have offices in various locations. The company also encourages flexibility to increase employee job satisfaction. I work from home every Thursday and also cut back to 30 hours per week when my oldest child started first grade. I find the work challenging, the people are very talented and enjoyable to work with and being a parent of three kids in grade school, the flexibility can't be beat. It's a great fit for my education and for this phase of my life.

Fran is pictured with her husband Scott and their three children, Matthew, Samantha and Andrew

MACS STUDENTS ATTEND CONFERENCES — BEV UNRUH

The MACS Department believes attending professional conferences are great educational experiences for our students, allowing the students to network and to view presentations on the different mathematics concepts by mathematicians from other universities. This past year the MACS Department was pleased to provide registration, travel and lodging to afford students opportunities in attending two conferences.

The first conference was held in October at Wichita State University. As part of the "Teaching of Secondary School Mathematics" class curriculum, students are required to attend the annual Kansas Association of Teachers of Mathematics Conference. The students choose different sessions to attend and share their experiences in class. Mathematics Education students attending were: Nicole Delzeit, Gloria Johnson, Kaylee Sotelo, Ivone Martinez, Ryan Schulte, Cole Erbert, Trevor Siebert, Greg Traffas, Nolan Trapp, and Joshua Platt.

In February, students joined some of the MACS faculty on a second conference trip. Three students competed in the Problem Solving Competition held in conjunction with the Kansas section of Mathematics Association of America meeting hosted by Baker University, Baldwin City, KS. Those students competing were Josh Platt, Nolan Trapp and Shelby Smith. The students indicated it was a very worthwhile experience.

RETIRED FACULTY NEWS — KEITH DREILING

Author's note: Some of the retired faculty members sent their information to me in written form, and others provided the information to me over the phone or in a personal interview. I have summarized the information from the interviews, but I have included the written information as it was sent to me since it seemed to be more interesting to read than if I had summarized.

Elton Beougher

Our big activity this past year was a 17-day cruise on the eastern Mediterranean Sea in October. It was a wonderful trip. The weather was great. Each day we spent on shore excursions, the temperatures were in the low 70s. It did rain some, but it was when we were sailing on the ship. The stops we made were Venice (Italy), Olympia (Greece), Athens (Greece), Istanbul (Turkey), Ephesus (Turkey), Santorini Island (a Greek island), Monaco, Florence (Italy), Pompeii (Italy) and Rome. Some highlights for us included the following.

Seeing the canal streets In Venice.

Visiting Olympia the site of the ancient Olympic Games. Each year of the modern games the Olympic torch is lit there and then is carried on its route to the site of the games for that year.

The ancient buildings in Athens including the Parthenon from which we could see the very large rock where St. Paul stood when he preached.

Ephesus, an ancient city, no longer inhabited but with the walls of many buildings still standing. Tradition has it that St. John brought Mary, the mother of Jesus, here and an ancient house has been excavated up in the hills that may have been hers.

In Istanbul we visited the Topkapi palace.

Santorini is a beautiful island on which most of the buildings are white with blue roofs, the scene you see on travel brochures. We visited a winery for a wine tasting party.

Monaco is the small monarchy state and we toured the palace of Prince Rainier and Princess Grace (Kelly).

In Florence we saw the museums of great art and the Medici's buildings.

We had an extensive tour of Pompeii, the city that was buried during an eruption of Mount Vesuvius in the first century AD.

We spent two days and nights on our own in Rome. This gave us just enough time to visit the Coliseum, the Roman Forum, and the Vatican (with thousands of our closest friends! And I mean CLOSE). The crowd was enormous and we were shoulder to shoulder while we went through the halls, the Sistine Chapel, etc. I could have probably lifted my feet and been carried along with the crowd! We stayed in a hotel that was built in the 15th Century (it had been remodeled since then. (o:). The breakfast each morning was served on a terrace on the roof of the hotel. We could look out over the city and see for miles. There were at least 20 church steeples in sight.

It has been a life-long dream of mine to take such a cruise, and it lived up to my expectations. Our flights were on time and we met lots of interesting people. Amusing occurrences were caused by my apparel. I wore a yellow cap with a big M on it (University of Michigan) and a jacket in maize and blue (Michigan colors). I stood out in crowds; literally, my height gave me a distinct advantage over the people around me. My wife and her mother could always see me in a crowd and we could keep from being lost from each other. I guess that is pay back for all the times I hit my head on things that shorter people can walk under. Also, several times I heard someone say, "Go Blue," the Michigan cheer at athletic events and when two alumni of that University see each other. I did talk to one Ohio State fan who said "Go Blue" to me at the Trevi fountain in Rome. We did not insult each other, but had a congenial conversation. I believe it was the same weekend that OSU and Michigan played. Quite a coincidence. The Trevi fountain is the one about which the legend is if you throw coins into the fountain, you will return to Rome. We threw some Euros. As Arnold Schwarzenegger said, "I'll be back."

Carolyn Ehr

I have been in Las Cruces, New Mexico for November and December, then I was back home in Hays for snow and ice in January. So…I am closing on a new home there next week. I will be bilocating with winters there and summers here. Oh the joys of retirement.

Charles Votaw

I don't do much that I would expect to be of great interest to others. I read a great deal, watch videos, take and edit home videos, help with school homework and exercise a bit. Mostly, I think, I don't really know what I do, but I seem reasonably happy doing it.

Ellen Veed

There was nothing much different this year. I'm still enjoying retirement. I spent more than three months at my cabin last summer.

Rosalie Nichols

Weeden and I celebrated our 50th wedding anniversary in June with most of our children and grandchildren. We made Life Master status in competitive bridge in May. We are spending the winter in Las Cruces, New Mexico and enjoying mild weather.

Larry Dryden

Larry's wife Anita passed away on September 4, 2010 at the age of 89. She was born April 16, 1921, in Bear Creek, Wisconsin, to William and Emma Klemm. She served as a registered nurse in the Navy Nurse Corps from 1943 to 1944. After World War II she worked for more than 40 years as a registered nurse in various hospitals in Hays, Salina and Fairplay, Colo. Survivors include her husband, Laurence Dryden, Hays; two sons, Lynn Friesner, Omaha, Neb., and David Friesner, Houston; and a sister, Lou Rhinert, La Mirada, Calif. She was preceded in death by her first husband, Paul K. Friesner.

Ron Sandstrom

First I was a census worker for four different scenarios from March through June. In July we went on a river cruise from Moscow to St. Petersburg. Roger and Judy Sellens Harmon as well as Cathy's brother Joe and wife Sandy Newcomer Whitley joined us. We went through 16 locks that Stalin had built so that Moscow had water access to the Atlantic Ocean. My favorite events were Red Square, St. Basil's, and St. Petersburg even though I had seen them in 1993. Cathy's favorites were Red Square and Catherine's Summer Palace in St. Petersburg. One day after we returned we took our camper to Omaha for a 13 state swim meet. Grandson Jackson placed in two events. At the end of September we took our camper to Alburquerque for the International Balloon Festival. Our camping spot was about a mile from the center of all the events and right under the path of the flying balloons. Two weeks later we joined Cathy's brother and his wife for a tour of four national parks: Arches, Grand Canyon, Zion, and Bryce. By the time you read this we will have spent two weeks in North Carolina visiting Cathy's twin sister and her husband. These travels were surrounded with gardening, pasture work, going to other swim meets, softball games, baseball games, football games, dance recitals, and lay speaker preaching about once each month. Hence, not much dust on my shoes other than dust from the pasture.

WHAT DOES A FACULTY MEMBER DO...BESIDES TEACH? — MOHAMMAD RIAZI

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 2010.

Triangle Constructions in Taxicab Geometry, accepted for publication in *Mathematics Teacher,* Best Teaching Practices at the College Level, *Kansas Association of Teachers of Mathematics Bulletin*, Western Kansas Math Academy, presentation at the 5th Annual Research at Predominantly Undergraduate Institutions (PUIs) Conference, Hays, KS, Newcomer Session, presentation at Kansas Association of Teachers of Mathematics Annual Conference, Wichita, KS, Drawing a Straight Line, presentation at Kansas Association of Teachers of Mathematics Annual Conference, Wichita, KS, Drawing a Straight Line, seminar presentation, NFL Win Probability, seminar presentation, Calculus Readiness Program, KAMS Workshop: How to Ask for Help, Reviewed Mathematics Education Programs for Kansas State Department of Education, Completed Ph.D. in Curriculum & Instruction at KSU, Attended KMAA Conference in Topeka, Presented "On-line homework at FHSU" at KATM Conference in Wichita, Presented 2 seminars to the MACS faculty and students, Co-developed "Calculus Readiness" course for incoming Pre-Calculus & Calculus students, Begin writing grants (Write at least one), Prepared and presented at Middle School Girls' Math and Science Camp, Submitted Grant Proposal for KSDE MSP Grant, Submitted article to The Advocate, Submitted article to Mathematics Teaching in the Middle School, Submitted article to Mathematics Teacher, Received Kansas Distinguished Dissertation Award, Presented at KATM, "Anonymity Leakage Reduction in Network Latency", **International Journal of Multimedia and Ubiquitous Engineering (IJMUE),** Vol. 5, No. 1, pp.19-28, January, 2010., "Dynamically Self-adapting RNN-based Intrusion Detection System", accepted for publication in the **International Journal of Multimedia & Ubiquitous Engineering (IJMUE)**, presentation with a topic of "High Education Entrance Exam in China" Presentation with a topic of "Dimentional Analysis" Problem 642, Page 29, The Pentagon, Vol 69, No 2, Spring 2010. Problem 644, Page 31, The Pentagon, Vol 69, No 2, Spring 2010,Problem 646, Page 33, The Pentagon, Vol 69, No 2, Spring 2010, Problem 648, Page 35,The Pentagon, Vol 69, No 2, Spring 2010, Periodic Orbits in generalized 3x+1 conjecture, Presented at the MAA Kansas Section, 2011, Solution to Problem 931, The College Mathematics Journal, Vol. 41, No. 4, September 2010.

2010-2011 SCHOLARSHIP AWARDS — JEFF SADLER

Providing significant financial support for numerous FHSU students pursuing a degree in mathematics or computer science, scholarships worth more than $24,000 were awarded this current academic year. Most of the funds for these scholarships came from generous contributions by alumni and friends of the MACS Department, to whom great appreciation is due. As in the recent past, MACS scholarships are broken into three categories as listed below.

In its fourth year, the Academic Opportunity Awards (AOA) continued to be a valued scholarship for incoming freshmen to the MACS department. Since replacing the 20-year old Award of Excellence program in 2007, the AOA has provided 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-nine AOA scholarships worth over $25,000 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 2010 for a total of $8,200 in scholarships. Those students included:

Nikolaus Boyle (St. John)	Isaac Broeckelman (Selden)	Kayla Corby (Haysville)
Joshua Gale (Agra)	Gabrielle Kuhlman (Sharon Springs)	Kalee Logan (Lyons)
Kaitlyn Paul (Salina)	Stetson Robison (Beverly)	Thao Tran (Salina)
Andrew Weed (Salina)	Philip Wolf (Ellsworth)	

Thanks to TigerCall supporters, the department awarded three $400 scholarships in the second category, the MACS Departmental Scholarships. The 2010-2011 awards were given to:

Emma Dreiling (Hays)	Landon Taylor (Hays)	Michelle Webb (Littleton, CO)

Nineteen dedicated students were awarded $15,800 in prestigious named scholarships from the MACS Department third area of funding. These scholarships are financed through both endowed dollars and newly received designated contributions, some coming from the annual TigerCall Telethon. The following FHSU students received both the deserved recognition and related awards:

Josh Platt (Syracuse)—Tebo Family $1200 Scholarship
Troy Morash (North Platte, NE)—Toalson $1200 Scholarship
Mark Garret (Dodge City)—P. Miller Math/Physics $1,000 Scholarship
Daniel Schneider (Olmitz)—Moore Family $1,000 Scholarship
Nolan Trapp (Susank)—Moore Family $1,000 Scholarship
Nichole Delzeit (Dodge City)—Moore Family $1,000 Scholarship
Paul Flesher (Hays)—Moore Family $1,000 Scholarship
Judy Brummer (Hays)—Jimmy Rice Memorial $1000 Scholarship
Greg Traffas (Hays)—E.E. and L. Colyer Memorial $800 Scholarship
William Allen (Wakefield)—C.W. Lowry $600 Scholarship
Tyler Kincaid (Dodge City)—Denio $800 Scholarship
Adam Falcon (Sylvan Grove)—O.E. and P. Etter $600 Scholarship
Allison Summers (Hays)—Marshall $600 Scholarship
Jami Norman (Holcomb)—E. Veed $800 Scholarship
Kylie Simpson (Hays)—Baxter $600 Scholarship
Jayme Hansen (Hays)—Ogle $600 Scholarship
Jeffrey Kaufman (Hoxie)—Ron and Cathy Sandstrom $1000 Scholarship
Shawn Davis (Mankato)—Ruth and Roger Pruitt $800 Scholarship
Trevor Siebert (Colby)—Frances E Shockley $400 Scholarship

Students awarded scholarships have expressed 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 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 twenty-five well-prepared high school seniors 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. Anyone with questions about departmental scholarships or with the ability to assist in identifying and/or recruiting possible MACS students can do so by contacting Jeff Sadler at jsadler@fhsu.edu or (785)-628-4416. Additional specified scholarship information may be obtained through submission of a completed form as found on the MACS website.