FY2014 | Research Profile

Research Fostering Global and Cultural Understanding



OFFICE OF RESEARCH AND SPONSORED PROGRAMS St. Cloud State University



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Fostering globalization

By Patricia Hughes

The focus of this year's Research Profile is globalization, one of the four learning commitments that define the academic identity of St. Cloud State University. A central component of St. Cloud State's strategic action plan includes a commitment to the global and cultural understanding of our students. As a testament to this commitment, St. Cloud State has earned the inaugural International Education Award from the American Association of State Colleges and Universities (AASCU). AASCU's Excellence and Innovation Award Program honors member institutions for excellence in several major areas of campus life and leadership. The Center for International Studies, headed by Thy Yang, provides advocacy and support to the over 1,100 international students and scholars at St. Cloud State from more than 90 countries. The work being done by students, faculty and staff and supported by the efforts of the Office of Research and Sponsored Programs (RSP) have made internationalization an integral component of every experience on campus.

RSP fosters student, faculty and staff development through Faculty Improvement Grants, New Researcher Funds, University Researcher Funds, the Saigo Endowment for Faculty and Staff Excellence Fund, the Hellervik Prize and Student Research Funds and Colloquium. This year RSP provided funding to four New Researchers totaling \$21,000 and to six University Researchers totaling \$38,000. The support of RSP and the dedication and commitment of faculty and staff in pursuing external funding have generated \$6.8 million in external funding to the university, which is a 12.5 percent increase from the previous year.

The emphasis on student success is supported by the Student Research Funds, providing assistance to more than 50 students who will go on to present their research at the Student Research Colloquium. This year we had more than 400 students present their research at the Colloquium with the support of more than 100 faculty sponsors. St. Cloud State was also well represented at the third annual Minnesota State Colleges and Universities (MnSCU) Undergraduate Scholars Conference, providing an opportunity to showcase undergraduate research in an intercampus forum. At Posters at St. Paul undergraduate students from a consortium of MnSCU institutions were able to share their research and the quality of their programs with leaders in state government.

RSP is committed to promoting a positive and supportive environment that allows St. Cloud State faculty and staff the opportunity to engage in research, scholarship and creative activity. By fostering greater cultural understanding, we help support the next generation of innovative, productive and thoughtful citizens.

atria Hughes

Patricia Hughes Interim Associate Provost of Research and Dean of Graduate Education



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Adesegun Oyedele: Innovation evaluation

by Jestine Ware

Adesegun Oyedele, professor in marketing, is the main instructor and lead designer of the MBA 605 Innovation Evaluation course. During the course, 19 MBA students explored innovation and design approaches to solving global market development issues through this real-world, hands-on project. The students worked with a business client called Schaefer Ventilation, located in Sauk Rapids.

Students analyzed the company's business model using design and innovation techniques: ideation, visual thinking, and prototyping. The photograph shows students using a visual-thinking exercise using Legos to map the client's business model. The follow-up exercises entailed a reconfiguration of Schaefer's current business model after developing more in-depth insight about Schaefer's internal and external business environment.

On the final day of the course, each student group presented and recommended three business model innovation prototypes to Schaefer's management team, lead by Neil Crocker, CEO of Schaefer, and two industry experts from Clearwater Layline Consulting.

"This is the first time in a long time that I'm able to get innovative business recommendations that will force me to think differently about my business," Crocker said.

The major learning achievements included:

- Students gained in-depth knowledge of how to apply design, creativity and innovation tools to solve real-world global business problems.
- The business client gained knowledge and new perspectives about innovative business models that can help position the company to compete in the global marketplace.
- Students developed their own inventions and applied design and creativity tools to gather information on how to transition from invention to innovation.

The Herberger Business School, through the MBA innovation evaluation course and student projects, can help small and mid-sized businesses in Central Minnesota better position themselves in the global marketplace.

View a sample invention from an innovation evaluation student at: http://goo.gl/KGaEe4. Contact Professor Oyedele to discuss this course at aoyedele@stcloudstate. edu.

Intana Chanthirath: Photoplankton Lab

by Jestine Ware

Intana Chanthirath is a biophysics major working in the Biology department's Phytoplankton Lab researching alternative energy sources using algae and analyzing the 3-D morphological shape of diatoms. Through this work, she uses an atomic force microscope to create 3-D models for museum exhibits, one being the Great Lakes Aquarium in Duluth.

The Phytoplankton Lab is versatile. "If there's an interest you want to focus on, most of the time the lab will produce an opportunity for students to gain experience in the field that they want," Chanthirath said.

During her lab experience, Chanthirath moved from genomics to applied physics on diatoms. She wants to understand diatoms more and stresses "there is so much to learn from these little guys."

As a lab technician, she traveled to Belgium, Japan and Montana to conferences and participated in multiple poster presentations. Her presentations include:

- 21st (NADS) North American Diatom Symposium, Flathead Lake Biological Station, Polson, Montana Sept. 14-18, 2011: "Stephanodiscus Theriotensis a New Diatom from the Laurentian Great Lakes"
- 22nd International Diatom Symposium, Ghent University, Ghent, Belgium Aug. 26-31, 2012: "Shape Analysis in the 3-D Dimension: Are Centric Diatoms Finally Showing Some Character?"
- The 33rd (JSD) Japanese Society of Diatomology, Ryukyu University, Okinawa, Japan Nov. 15-17, 2013: "Floating Frustules: Why do Some Siliceous Components Sink and Others Float, Observations of Cyclotella Meneghiniana in Mass Culture"

She also worked in interdisciplinary settings and international collaborations through a student exchange with students from Japan and other countries. Working in the lab and training other students brought out her networking skills as she learned to be a professional. She states that she grew as a person from the experience — in addition to finding out her interest areas.

Chanthirath intends to get a master's degree in biophysics and then pursue a Ph.D. degree. During her lab work, she discovered that she likes to work with students and wishes to teach physics in a college or university setting.

To find out more about the Phytoplankton Lab, contact Professor Matt Julius at mljulius@stcloudstate.edu or Chanthirath about her work at chin0802@stcloudstate.edu.

Check out the lab's website at http://goo.gl/b6Gqbx. To read more, check out these stories from University Communications: "Algae power at SCSU" at http://scsu.mn/1xslFF5 or "St. Cloud PROUD" at http://scsu.mn/1xslJoi.

Study of climbing fish gains NSF support

by University Communications

Noted aquatic fauna expert Heiko Schoenfuss is featured in a National Science Foundation (NSF) video for his expertise and research about unusual Hawaiian fish.

With support from the NSF, the professor of biology, along with other scientists and students from St. Cloud State and Clemson universities, has made multiple trips to Hawaii to investigate the adaptation and evolution of sicyopterus stimpsoni, the "inching climber" goby fish. The tiny fish use oral and pelvic suction cups to scale rocks behind waterfalls, an arduous trip that takes them from the ocean to freshwater spawning grounds.

He likens the work of the "inching climber" goby fish to a human scaling Mount Everest three times in a short time span.

Schoenfuss also studies how fish in rivers like the Mississippi adapt to chemicals in the water, among other research ongoing at St. Cloud State.



St. Cloud State part of NASA mission

by University Communications

St. Cloud State physicist John Harlander is on a team chosen by NASA to study Earth's atmosphere.

The Ionospheric Connection (ICON) team will develop instruments for an Explorer satellite mission to be launched in 2017 from Goddard Space Flight Center, northeast of Washington D.C. ICON is led by research physicist Thomas Immel of the University of California, Berkeley.

Harlander, a professor of physics, astronomy and engineering science, will design, fabricate and pre-flight test an instrument that will measure winds and temperatures in the thermosphere, an upper layer of Earth's atmosphere.

Called MIGHTI (Michelson Interferometer for Global Highresolution Thermospheric Imaging), the instrument descends from SHIMMER (Spatial Heterodyne Imager for Mesospheric Radicals), an instrument family Harlander helped design. SHIMMER instruments flew on the Shuttle Atlantis in 2002 and orbit in a U.S. Naval Research Laboratory satellite launched in 2007.

MIGHTI and three other ICON instruments will study little understood atmospheric regions where planetary weather and space weather meet. Harlander's students will participate in the ICON project via a prototype called REDDI.

"They'll have the opportunity to work with this technology in a way they couldn't with actual space hardware, which is mostly sealed away in a clean room," Harlander said. "They can get under the hood and do alignments, play with data analysis algorithms and make observations from campus." "Students will support ICON by making ground-based upper atmospheric wind measurements with REDDI both before and after launch," he said.

The prototype is being installed in Brown Hall, Harlander said.

Explorer is NASA's oldest continuous program. It provides low-cost access to space for investigations in heliophysics and astrophysics.

Funding for missions of this type is capped at \$200 million, excluding launch vehicle and spacecraft. ICON funding is not yet public, Harlander said.

NASA will likely use an Orbital Sciences Corporation Pegasus XL rocket and LEOStar-2 satellite to send the ICON instruments aloft. Learn more about the LEOStar-2 (PDF).

A publicly traded company based in Dulles, Va., Orbital Sciences earned \$1.35 billion in fiscal year 2011 manufacturing satellite launch systems and missile-defense systems.

The Explorer program has launched more than 90 missions since 1958, including Explorer 1, which discovered Earth's radiation belts, and the Nobel Prize-enabling mission Cosmic Background Explorer mission.

Among ICON's 30 team members are researchers from schools such as Cornell University, University of Kyoto, University of Illinois, University of Liege and University of Colorado.

Harlander has worked at St. Cloud State since 1991.

St. Cloud State lands college-prep grant

By University Communications

St. Cloud high school students will be college-ready thanks to a grant from the Great Lakes Higher Education Guaranty Corporation.

St. Cloud State received a \$205,510 grant from the organization to help students from traditionally underserved backgrounds succeed in upper-level math classes while in high school, so they won't need remedial classes once they enter college.

The funds supported a program designed to improve the mathematics skills of 11th and 12th grade low-income and ethnic minority students from Apollo and Technical high schools during the 2014-2015 school year. The program provides advising and course scheduling and academic support through extra math lab sessions offered by high school teachers and supported by college tutors and a math software program to diagnose individual student weaknesses and provide individualized instruction.

It expands on a pilot project the high schools initiated in fall 2013 that used the math lab concept for algebra classes and expands it to students in upper-level classes to target at-risk students.

Studies show that the more math students take in high school, the better their chances of success in college. Also, many jobs call for a strong math background, said Robert Johnson, St. Cloud State Ethnic Studies Department Professor and Director of the Office of Pre-College Programs.

"This grant provides the math teachers in District 742 more resources to reach more students and help these students study upper-level mathematics," he said. "The students will be more prepared for postsecondary life, either in college or the workplace with more mathematics as part of their high school education." Great Lakes is a Madison, Wis., non-profit organization that promotes college readiness and improves college access. It assists with loan repayment, in partnership with the U.S. Department of Education and private lenders.

Additional tutoring services will be offered in the Access, Opportunity and Success Program (AOSP) located on each high school campus. The AOSP is a partnership between the St. Cloud School District, St. Cloud Technical and Community College and St. Cloud State, which has been providing advising and tutoring services to low-income, first generation and ethnic minority students in the district for the past six years.

The grant will fund a coordinator position that will spend time at both high schools as well as professional development for participating teachers and training for college tutors on use of software and calculators. The grant will also pay for reassigned time for teachers to work with small groups of students in geometry and algebra math labs. Participating students will get graphing calculators.

"(The program) is a part of the work that we currently do in the schools," Johnson said. "It gives us the means to focus specifically on math education and to provide more services and resources. These services and activities will be complementary to and coordinated with our other services to the students, the schools and the families."

Igniting Globalization

Students from 83 nations attended St. Cloud State in fall semester 2013.

Of the 1,025 international students enrolled fall semester 2013, 635 were undergraduates, 224 were graduate students, 159 were non-degree students and seven were pursuing doctoral degrees.

Grant helps students achieve

By University Communications

A \$200,000 grant is funding efforts to help first-year students succeed in the coming school year.

For the second year, St. Cloud State University has received a College Success grant from the Great Lakes Higher Education Guaranty Corporation to assist students from traditionally underserved backgrounds continue their college education to sophomore year and beyond. The university was one of 19 to receive some of the \$2.7 million in grant funding from Great Lakes.

The grant is funding efforts to expand St. Cloud State's Multicultural Student Services' (MSS) survey assessment tool to reach students who need assistance earlier in the semester. The grant allows MSS to provide the survey to faculty teaching first-year students of color weeks earlier than the rest of the survey's target population. Peer mentors work with faculty to help track student attendance, refer struggling students to resources and monitor classwork to ensure students are submitting required assignments.

"The grant will help serve students by getting them the academic support services that they need at an early opportunity," said Shawn Kakuk, MSS assistant director. "By including faculty in this grant, we will be able to help students understand the importance of engaging faculty in their academic endeavors on a more impactful scale."



Academic resources staff will use the grant funds to:

- Move beyond email and meet face-to-face with students identified as struggling academically, who may otherwise not connect with academic support services.
- Add two academic intervention specialist positions that will work with faculty and peer mentors to connect students to existing available resources.
- Continue assessment opportunities and staff training throughout the academic year.

It's a powerful tool that will not only help improve student of color retention but also allow the MSS office to continue collaborative efforts with other academic support services on campus, Kakuk said. "With the ability for us to now work more closely with faculty, the students' best interests are truly being served as the faculty are the backbone of our academic environment here at St. Cloud State University," he said.

The grant follows a \$299,999 College Success grant St. Cloud State received in 2013 to support students of color and first generation college students entering St. Cloud State with a high school grade point average of less than 3.0. St. Cloud State used the funds to hire three program coordinators and serve 154 students throughout the school year.

J-1 International Exchange Visitor Program St. Cloud State University is a designated sponsor of the J-1 Exchange Visitor program in accordance with the administrative regulations issued under the Mutual Educational and Cultural Exchange Act of 1961.

As a sponsor of the J-1 Exchange Visitor program, St. Cloud State University helps contribute to the educational and cultural exchange of the campus and local community as authorized by the Fulbright-Hays Act. The purpose of this Act, and objective of the Exchange Visitor category, is "to increase mutual

understanding between the people of the United States and the people of other countries by means of educational and cultural exchanges."

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St. Cloud State, Sodexo team for Feeding Our Future

Dec. 16, 2013

By Char Hopela '87

Most kids don't look forward to summer school. And being hungry doesn't help. To bolster summer learners, St. Cloud State, Sodexo and the Schwan Food Co. once again partnered in providing free meals to local K-8 students during the summer of 2013.

"We all know the need is growing. Fortunately we have more resources and great partners," said Tim Ness, resident dining operations manager at St. Cloud State.

Jerry Sparby '87, a professor of Teacher Development, secured United States Department of Agriculture funding and another grant to augment the \$20,000 provided by Sodexo Foundation. All of the foundation money is used for purchasing food.

The new funding allowed the program to hire unemployed and underemployed workers to help staff the expanded food service operation. The experience provided hospitality industry training which could lead to entrylevel jobs.

Sparby also brought in a class of St. Cloud State students to help make sandwiches for two days of program lunches. Their enthusiasm and efficiency resulted in the preparation of 1,200 meals in a little more than two hours.

"They could not believe how many meals they made," Ness said.

Feeding our Future is an annual program designed to alleviate childhood hunger, which can lead to poor academic performance.

The program operates in 24 cities across the country during the summer months when the risk of hunger is higher for students who normally rely on school-based supplemental nutrition programs.

In 2013, the local effort expanded from serving lunches to providing breakfast, too. The number of free meals served rose from 21,000 in 2012 to nearly 30,000 in 2013.

Research Institute addresses area needs

By University Communications



Committed to developing solutions and answering questions for area communities and the region, the School of Public Affairs officially opened its Research Institute in February 2014.

Under the direction of economics professor King Banian and with the help of graduate assistant Walid Issa '13, the Research Institute is already delivering research and expertise to the Minnesota Lottery, the Office of the Secretary of State and the Minnesota Nursery and Landscapers Association, among other clients.

"It really is the embodiment of the most important aspects of what we as an institution are all about," President Earl H. Potter III said while praising the institute for giving students opportunities to learn by doing. "It's deeply embedded in our mission and our history and the strengths of our faculty."

University research assets within the Research Institute:

- Center for Economic Education
- Minnesota Economic Development Center
- Spatial Analysis Research Center
- St. Cloud Area Quarterly Business Report
- SCSU Survey
- Winter Institute conference

External Grants and Contracts AWARDED

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Scientific investigation, scholarly activity and creative achievement are vital to St. Cloud State University's mission of offering accessible, high quality education. In fact, research at the university is as much about effective teaching as it is about contributing to knowledge. Through research activities, faculty members improve expertise in their disciplines and pedagogy and also engage students in the excitement of discovery and creation.

ACADEMIC AFFAIRS

Randy Kolb - \$1,441

School of Graduate Studies, "Statistical Consulting and Research Center"

Carolyn Williams - \$1,000

Academic Affairs, *"Science, Technology, Engineering, and Mathematics Summit"* — Initiative Foundation

CENTER FOR CONTINUING STUDIES

Tamera Anhalt-Warner - \$147,739

Customized Training, *"Netgain Advancing Healthcare IT"* — Minnesota Job Skills Partnership

Larry Nadeau - \$685,478 Minnesota Highway Safety and Research Center, "AAA Driving"

Larry Nadeau - \$972,404 Minnesota Highway Safety and Research Center, "Driving Range"

Larry Nadeau - \$20,000

Minnesota Highway Safety and Research Center, "Teen Crash Avoidance" — State Farm Automobile Insurance Company

COLLEGE OF LIBERAL ARTS

Robert C. Johnson - \$205,510

Center for Access and Opportunity, "*College Ready*" — Great Lakes Community Foundation

Robert C. Johnson - \$5,000

Center for Access and Opportunity, "Math Science-Computer Camps" — Xcel Energy Foundation

Robert C. Johnson - \$37,484

Center for Access and Opportunity, *"Promoting Academic Success for Underrepresented Students"* — Minnesota Office of Higher Education



Kreider Fellowship experience at Elizabethtown College

By Marie Dick

In 2013, Marie Dick, associate professor of mass communications, served as the Kreider Fellow at The Center for Anabaptism and Pietist Studies. The center is housed on the Elizabethtown College campus in Elizabethtown, Penn. While there, Dick furthered her on-going research on Southern Cheyenne Chief, Lawrence Hart, who lives in Norman, Okla.

Dick has worked on various projects pertaining to the life and work of Chief Lawrence Hart with a particular focus on his pacifist rhetoric and his nationally-recognized work with bone repatriation. Dick conducted work on this project in collaboration with Susan Schultz Huxman, president of Conrad-Grebel College, University of Ontario (Canada), along with Hart's official biographer, Raylene Hinz-Penner, who is a retired English professor from Washburn University in Kansas.

With gracious support from the Young Center for Anabaptism and Pietist Studies, Professor Dick was able to further her analysis of Lawrence Hart's rhetoric centered on the peace chief's roles and traditions within the Southern Cheyenne.

COLLEGE OF SCIENCE AND ENGINEERING

Adel Ali and Yi Zheng - \$48,442

Computing, Engineering and Environment/Electrical and Computer Engineering, *"Embedded Systems Applications for Monitoring Tissue Properties"* — Born-Fuke Co Ltd

Nadeesha Lihinikadu Arachchige - \$1,323

Mathematics and Statistics, "Analyzing Climate Data for College of St Benedict" — College of Saint Benedict

Jorge Arriagada - \$25,200

Biology, "Monitoring and Controlling Invasive Species at Camp Ripley" — Minnesota Department of Military Affairs

Brian Billings - \$52,106

Atmospheric and Hydrologic Sciences, "The Effects of Cloud Development and Structure on the Generation of Deep Vertically Propagating Mountain Waves" — National Science Foundation

Jiang Ping Jeff Chen - \$30,000

Mathematics and Statistics, *"Mei Wending and the Rise of Reasoning in 17th-century Chinese Mathematics"* — Chiang Ching-kuo Foundation for International Scholarly Exchange

Tirthankar Ghosh - \$21,000

Computer Science and Information Technology, "*Recruiting Female Students in IT Programs and Train Them to Become Part of Nation's Cyber Security Workforces*" — Advance IT Minnesota

Kristin Gulrud - \$1,979

Biology, "Product Analysis Study" — Microbiologics

Anthony Hansen - \$25,000

Atmospheric and Hydrologic Sciences, *"Investigation of Deep Water Bedforms"*— ExxonMobile Upstream Research Company

John Harlander - \$245,045

Chemistry and Physics, "ICON Satellite Project" — ATK Spacecraft Systems and Services

John Harlander - \$16,389

Chemistry and Physics, *"Real Fringe DASH Development"*—LighMachinery, Inc.

Kurt Helgeson - \$180,000

Environmental and Technological Studies, "Science Express" — St. Cloud State University Foundation

Bruce Jacobson and Christopher Kvaal - \$4,973

Biology, "Epitopix Research Collaboration" — Epitopix

Matt Julius - \$26,210 Biology, *"BioMass Harvest Validation"* — Solutions for Co2 Matt Julius - \$11,237

Biology, "Phytoplankton Lab"

Annette Lee - \$11,774

Chemistry and Physics, "Environmental Modeling and Research Experience"— National Aeronautics and Space Administration

Annette Lee - \$9,292

Chemistry and Physics, *"Native Skywatchers"* — Minnesota State Colleges and Universities

Donald Neu and Juan Fedele - 154,767

Chemistry and Physics/Atmospheric and Hydrologic Sciences, *"Major Reaserach Instrumentation: Colloidal Characteization Capability Through Combined DLS-ACS Analysis"*— National Science Foundation

Amos Olagunju - \$4,000

Computer Science and Information Technology, "Prototype Webbased Application" — GM Insight

Latha Ramakrishnan - \$29,570

Chemistry and Physics, "Catalyzing New International Collaborations: US-India Collaborative Research to Decipher Function and Evolution of GABergic Neurotransmission in Planaria" — National Science Foundation

Latha Ramakrishnan - \$2,513

Chemistry and Physics, "Chemistry Lab Manual Royalties"

Latha Ramakrishnan - \$6,610

Chemistry and Physics, "Chemistry Royalties"

Marco Restani - \$4,300

Biology, "Osprey Project" - Rocky Mountain College

David Robinson and Hui Xu - \$34,098

Mathematics and Statistics, "Analysis of Data from Stearns County Jail" — Stearns County

Charles Rose - \$500

Environmental and Technological Studies, *"Research Funds"* – University of Minnesota Center for Urban and Regional Affairs

Heiko Schoenfuss - \$126,449

Biology, "Collaborative Research, Research Undergraduate Institutions: Assessing Load Reduction and Biological Recovery After 500 MGD Treatment Upgrades in an Effluent-Dominated Aquatic Ecosystem"— National Science Foundation

Heiko Schoenfuss - \$28,000

Biology, *"Estrogenic and Pharmaceutical Septic System Discharge to Lakes"* — Legislative-Citizen Commission for Minnesota Resources

Kannan Sivaprakasam - \$49,948

Chemistry and Physics, *"Development of a Self-Sealing Therapy Ostomy Pounch (S2TOP)"* — National Institutes of Health National Center for Research Resources

Maria Womack - \$160,524

Chemistry and Physics, "*Directorship 2014*" — National Science Foundation

Yi Zheng, Tirthankar Ghosh and Mark Petzold -\$60,000

Electrical and Computer Engineering/Computer Science and Information Technology, "Developing Embedded Systems and Mesh Networking Lab with Emerson"— Emerson Process Management



International collaborative undergraduate research: A gateway to decode a multicultural world

By Latha Ramakrishnan

Tenure for college professors continues to be a debatable topic in forums and publications that discuss the big issues in U.S. higher education. A couple of years ago, the Wall Street Journal published a special report on education "Should Tenure for College Professors be Abolished?" Proponents for tenure often say faculty are able to find an identity for themselves in their home institution by engaging themselves in high-risk and high-reward teaching, research and service activities they are passionate about. The protection tenure offers is crucial for such risk-takers. In addition, the rewards are not just personal professional growth for the concerned faculty; they are often like "ripples in a pond" that spreads to impact the wider educational community within and outside the home institution. This protection, when combined with a post-tenure sabbatical, presents a golden opportunity for such risk-takers to lay the foundation for projects that typically would not have seen daylight. In doing so, they now have taken the first step to professionally grow as agents of change for their institution.

In 2011, I had drawn my sabbatical plans wherein the central agenda was to develop an international research collaboration. The inspiration came during International Education Week workshops organized by Kathy Johnson. Then, in 2013, the American Association for the Advancement of Science published an article about the five steps to a successful sabbatical. I came across this article as I was preparing for a seminar to disseminate my sabbatical work to colleagues and students in our department. It was quite reassuring to know the sabbatical work I had undertaken had all the ingredients of this successful recipe, yet it was hard to swallow at times.

My motivation to choose India as the platform to launch the international research collaboration was multi-fold. Given my heritage, this is a terrain I understand very well, and to which I have a personal connection. From a professional standpoint, these connections would allow me to maneuver the bureaucratic system,

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and help to reveal the richness of my culture. Most importantly, as I went through the rigorous process of finding an academic job in this great country, I was often puzzled by the indirect questions from esteemed members of the search committee. Their questions pertained to the credibility of science done at top-tier academic institutions in India where I had my undergraduate and graduate training. Therefore, I felt it was my duty to enhance the multicultural understanding of our future scientific citizens.

After many mishaps, I chose the Polymeric Research Center in the Department of Chemical Sciences at the Indian Institute of Science Education and Research-Kolkata (IISER-K). I identified Priyadarsi De as the international research collaborator for my project. De's lab pioneers in manufacturing the class of polymers critical for this collaborative research project.

De and I sifted through the various U.S. federal, non-federal and Indian government funding opportunities in hopes of finding a grant program that would help kick-start our collaborative research. We had an added motive to find funding that would provide opportunities for students to be engaged in every aspect of this project. The National Science Foundation's (NSF) Catalyzing New International Collaboration (CNIC) program had all the elements we were aspiring for. Therefore, we decided to go through the demanding process of preparing a competitive proposal for this funding opportunity. A crucial step in this process was contacting the program directors at NSF. Our conversations with them helped in churning out a competitive proposal. The end result was that our hard work was worth the effort; we were eventually funded in September 2013!

In order to obtain the critical objective of engaging students from both institutions we enlisted a competitive selection process. Arising above all others was John Wade, an American Chemical Society (ACS) chemistry major. Wade was chosen to go to IISER-K for two weeks so that he could be trained on polymer synthesis and characterization techniques. Upon his return, he was able to share with other undergraduate students what he had learned.

Wade describes his experiences in India:

"Having been fortunate enough to travel abroad to India, I could easily write about every single wonder I saw; which would be enough to fill a book. I experienced the friendly, inviting culture and learned a lot about true hospitality. I witnessed a new way of cooking, learned a little history I never knew before and saw city life from the Indian perspective. I also visited temples and landmarks that most people never get the opportunity to see, such as: Akshardham, Redfort and the Taj Mahal. However, the greatest outcome of this opportunity was my personal growth. The world feels so much smaller now as I have gained a great deal of confidence that I never had before. Once you travel around the world, one can feel like their usual day-to-day challenges are so trivial.



Furthermore, I gained confidence in my ability to interact with other people. Having never been a very good people person, I grew to understand that humanity isn't an abstract ideal, or ideal emotion; but is something that is instinct to everyone. I feel as though any stressful interaction with other people is something that can be overcome and dealt with. It is as though I am more in touch with the fact that everyone has their own life perspective that is either broader or narrower than my own. I like to think that my fear of others is now significantly reduced, and that I can now climb ever onward to success in both academia and also in industry; my new goal.

While on the Mohanpur campus of IISER-K, I witnessed first-hand what it was like to work in a graduate level research environment; thus growing not only as a person, but also as a student. My days were filled to the brim with constant study and practice of polymer synthesis and characterization techniques that I never had experience with before. I came to understand the camaraderie that exists between graduate students working on the same team. Each had similar, yet different, goals to everyone else on that team. The things I once thought to be next to impossible to obtain such as: publication of a manuscript, individually advancing the study of a particular field of science and succeeding both as a scientist and as a student, I now see as things that are very possible to obtain.

While I could easily recommend an international undergraduate research experience for any student, simply for the experiences alone, I also feel that traveling abroad may be necessary to provide students a more unique and broader understanding of the world and of life. If given the opportunity to go back to India, I would certainly take it and hopefully get to see more of a great country and its people. My only regret is that I did not attempt to make an academic trip, such as this one, sooner in my undergraduate career."

The opportunities that were made possible by the NSF-CNIC funding continue to grow like "ripples in a pond." Many future undergraduate and high school students through St. Cloud State's summer camp programs will be recruited to engage in this international collaborative research. Furthermore, the many research dissemination avenues such as: St. Cloud State's annual Student Research Colloquium, Materials Research Society, American Chemical Society, Minnesota Undergraduate Council's Posters in St. Paul and the Winchell Undergraduate Symposium all present possibilities for continued professional growth as well as networking opportunities for our students.

HERBERGER BUSINESS SCHOOL

Qingjun Jim Chen - \$295,282

Information Systems, *"Maverick On-Campus IT Internship Program"* — Maverick Software

Barry Kirchoff - \$5,000

Small Business Development Center, *"Establish Outreach Sites for Sherburne and Wright Counties"* — Initiative Foundation

Barry Kirchoff - \$201,039

Small Business Development Center, "Minnesota Small Business Development Center Operations" — Minnesota Department of Employment and Economic Development

Barry Kirchoff - \$18,452

Small Business Development Center, "Small Business Development Center Program Income"

Steve Mooney - \$23,000

Finance, Insurance and Real Estate, *"Minnesota Chair of Real Estate"* — St. Cloud State University Foundation

Adesegun Oyedele - \$1,000

Marketing, "Student Internship for Export Research" — Pellco Machine

Adesegun Oyedele - 5,000

Marketing, *"Student Internship for Export Research"* — Initiative Foundation

Mark Schmidt - \$83,857

Information Systems, "Information Assurance Scholarship Program" — U.S. Department of Defense

NSF S-STEM Scholarship Program increases number of graduates through mentorship

In 2012, the Science, Technology, Engineering and Math (STEM) program at St. Cloud State University was awarded a four year, \$600,000 grant from the National Science Foundation (NSF). This award provides scholarships to students, who are then referred to as S-STEM Scholars. The goal is to provide this opportunity to at least 30 students at St. Cloud State.

NSF S-STEM Scholars are awarded \$9,100 bi-annial scholarships in three disciplines: information systems, computer science, and computer engineering. Student selection is based on financial need, academic performance and likelihood of success. Preference is given to women, students of color, Native Americans, first-generation college students and transfer students from community colleges. The program is intended to increase the graduation of students in the areas of high-demand STEM careers.

Led by the principal investigator Susantha Herath, and assisted by Dennis Guster, Jayantha Herath, Ratchaneekorn Thamvichai and Mahbub Hossain, tthe project is improving the infrastructure for advising and mentoring in the following ways:

- Bi-weekly mentor meetings are held between faculty and scholars.
- Mentors work with scholars frequently on academic and nonacademic goals.
- Mentors provide S-STEM Scholars help for research projects and professional development.
- Mentors address questions on education and career goals.
- S-STEM Scholars have the ability to ask questions on how to improve skills needed and set goals.
- Advising on what classes S-STEM Scholars should pursue.



National Science Foundation

Participation by faculty in mentor meetings helps to strengthen the retention of students by providing scholars with needed guidance in their majors. Scholars develop skills such as: leadership, organizational skills, better academic performance, time management and volunteering in the community.

S-STEM Scholars have shared their experiences and support structures they received from SCSU faculty during a presentation at the St. Cloud Technical and Community College. It is expected that this exposure to community colleges will attract students who are working on, or have recently completed, their Associate in Applied Science degrees and are interested in STEM careers.

Scholars also participated in the St. Cloud State STEM Summit in January 2013. This event was attended by over 1,500 Central Minnesota students in sixth through 12th grade. Scholars were able to share their experiences and explain what majors are considered STEM majors. In addition, students were informed of the current high demand for STEM careers and the projected ongoing need for these careers in the future.

UNIVERSITY COLLABORATIVE PROJECTS

Osman Alawiye and Rebecca Krystyniak -\$650,000

School of Education/Chemistry and Physics, "*Teacher Preparation Initiative*"— Bush Foundation

Osman Alawiye and Kathy Johnson - \$150,000

School of Education/Special Education, "St. Cloud State University Confucius Institute"— Hanban

Nancy Bacharach and Teresa Heck - \$41,171

Teacher Development/Kinesiology, "Academy for Co-teaching and Collaboration"

Nancy Bacharach and Teresa Heck - \$7,886

Teacher Development/Kinesiology, "Academy for Co-teaching and Collaboration Educational Materials"



Community impact 101

By Kelly Branam and Jerry Sparby

What happens when a neighborhood becomes a classroom? One outcome is that students begin to view their community as a site for critical investigation and reflection. When learning takes place so close to home, students take action. A fine example of studentdriven neighborhood engagement is the mentor program called Students Together Engaged in Laughter Learning and Reflection (STELLAR), which partners college students with low-income children who live near Talahi Elementary School.

STELLAR is the result of a series of community-based research projects carried out by students under the guidance of Associate Professor Kelly Branam, of the Department of Sociology and Anthropology. Last summer STELLAR collaborated with the Summer Food Program which provides free meals to low-income families throughout St. Cloud. The Summer Food Program is coordinated by Department of Education professor Jerry Sparby. Together, these initiatives are building connections across campus and between the university and surrounding community. Started in 2011, the Summer Food Program aims to address a very real and immediate need — adequate nutrition among low-income families living in St. Cloud. A second, and very much related, goal of the program is to encourage healthy and productive relationships among community members of diverse socio-economic backgrounds. To this end, the program uses the preparation, distribution and consumption of meals as an opportunity to foster dialogue about the boundless potential of what can be achieved when people come together to advance a common goal. Last summer more than 30,000 meals were served and an even greater number of conversations were had.

STELLAR is one such place where these conversations have occurred. By working with community members, university students have created a range of educational and outdoor programs that inspire learning and self-development among children who otherwise have limited access to extracurricular activities. Through STELLAR, the Talahi neighborhood has benefited from the enthusiasm and insight of university faculty and students. Along with the support of the Summer Food Program, a systematic effort is under way to effect positive change within the community.

SCHOOL OF EDUCATION

Kathy Johnson - \$21,712

Special Education, "Work Environment and Job Opportunities for People with Disabilities" — U.S. Department of Education

Marc Markell - \$20,609

Special Education, *"Learning Standards and Individualized Education Programs"* — Minnesota Department of Education

Jane Minnema and JoAnn Johnson - \$20,000

Child and Family Studies, *"Early Childhood Special Education"*— Minnesota Department of Education

Glen Palm and Osman Alawiye - \$7,476

Child and Family Studies/School of Education, "*Early Childhood Thrive Project*"— St. Cloud Schools Independent School District 742

Glen Palm and Osman Alawiye - \$10,000

Child and Family Studies/School of Education, *"Early Childhood Thrive Project"* — Initiative Foundation

Thomas Sanford - \$4,900

Educational Leadership and Administration, *"Higher Education Persistence and Completion Study"* — Minnesota Office of Higher Education

Jerry Sparby - \$153,900

Teacher Development, *"Summer Food Service Program"*— Minnesota Department of Education Food and Nutrition Services



Confucius Institute

On Aug. 30, 2013, St. Cloud State University was awarded a Confucius Institute. The Confucius Institute is supported by the Ministry of Education Hanban office, which has a mission for promoting Chinese language and culture around the world. To date, there are 475 Confucius Institutes and 851 Confucius Classrooms in 126 countries. Most Confucius Institutes partner with a higher education institution in China. However, St. Cloud State has a unique partner with Jilin Province Department of Education, which is collaborating with the Minnesota Department of Education.

A board of advisers has been established that provides oversight of the institute, which St. Cloud State President Earl H. Potter III serves as chair. The institute has also established a consultative advisory team consisting of faculty and administrators from St. Cloud State to provide recommendations and feedback on the work of institute.

One focus of the St. Cloud State Confucius Institute is to promote the development and sustainability of Chinese Immersion Programs in the state of MN. There are seven full immersion Chinese programs in the state serving more than 2,000 elementary students. This places Minnesota as the leader of such programs in the United States.

St. Cloud State Confucius Institute is partnering with Hanban on the development of standardized curriculum and assessment as well as teacher preparation for licensing native Chinese speakers as elementary teachers. Chinese full immersion programs begin in

FY2014 Research Profile

kindergarten where children learn language arts, science, math and social studies in Chinese. The specialist classes of art, music and physical education are taught in English. Beginning in third grade, students begin taking English classes for one hour a day. The results of the program have demonstrated not only a high level of proficiency in Chinese but also high academic results on standardized assessments.

The institute will soon be promoting the development of Chinese within the local high schools in both central and northern Minnesota. In support of the teaching and learning of Chinese in K-12 programs, St. Cloud State Confucius Institute has facilitated the approval of three new Confucius classrooms in District 742, District 47 and Lakes International Language Academy in Forest Lake. The aspiration is to facilitate an additional seven classrooms.

A second area of focus for the St. Cloud State Confucius Institute is to promote Chinese language and culture within the Minnesota State Colleges and Universities (MnSCU) system, beginning with St. Cloud State University. Efforts are being made to strengthen the Chinese language courses in partnership with the Department of Language and Culture. A goal of the institute is to assist in the development of a Chinese minor within the next five years, while also increasing opportunities for students to study abroad in China. Faculty and staff will have opportunities to learn about China, do shared research projects with faculty in China and develop avenues for incorporating comparative perspectives of China and Chinese culture into courses. Cultural activities, guest lectures from visiting scholars in China and art exhibits will be made available to St. Cloud State and the surrounding communities through the Confucius Institute.

During the last academic year, an area within the School of Education was remodeled to host the institute. The space includes a conference room, a library with a collection of 3,000 books and reference materials on China, Chinese history and culture and a language lab. A secondary project is to remodel a classroom adjoined to the institute for Chinese courses, workshops and professional development of teachers and administrators through funds from Hanban.

The first year for the St. Cloud State Confucius Institute celebrated numerous successful activities. Summaries of these events and activities may be found at www.stcloudstate.edu/confucius under the "Events" link. The institute is also working to promote the activities through social media such as Facebook, Twitter and Weibo.

St. Cloud State has numerous champions for China who have assisted in the establishment of partnerships in China and are doing great work. It is the goal of the St. Cloud State Confucius Institute to complement this work and support faculty who seek to — build bridges with China, expand opportunities for students, faculty, and administrators and the broader community to learn about China, and assist in the process of internationalizing teaching and learning across the campus of St. Cloud State.



SCHOOL OF HEALTH AND HUMAN SERVICES

David Bacharach - \$10,978

Kinesiology, "Comparing Horizontal Patient Transfer Devices" — CEGA Innovations

Patricia Bresser - \$6,500

Nursing, *"Advance Care Planning Certification"* — CentraCare Health Foundation

Mary Pfohl - \$70,366

Social Work, *"Bachelor of Social Work Child Welfare Consortium Project"* — University of Minnesota - Twin Cities, School of Social Work

Glenn Street - \$9,652

Kinesiology, "Prosthetic Writing Services"— Environmentally Managed Systems

Child Welfare Consortium project

By Mary L. Pfohl

Child welfare social workers are at the frontlines intervening when children's safety is at risk, and families are struggling to provide needed protection and care. A review of the literature identifies the importance of education and training for child welfare social workers (Collins, Kim, & Amodeo 2010). Strong worker-client relationships lead to change and outcomes which benefit children and families. Using social work knowledge of the importance of child welfare education and training provides the foundation for the BSW Child Welfare Title IV-E Consortium Program (hereafter Child Welfare Program) located in the St. Cloud State Department of Social Work.

Students accepted to the Child Welfare Program must be social work students in good standing. Throughout their time in the program students receive: advising support, specific child welfare education through small group/cohort meetings with the program director, training through the Minnesota Child Welfare Training System and hands on learning in a public or tribal child welfare setting. The program also provides financial support through a \$1,900 stipend per semester to support their education.

While in the Child Welfare Program, students focus their education to be better prepared to work in child welfare. For example, students may analyze the Indian Child Welfare Act in the required policy class. Through cohort meetings, students obtain additional knowledge of child welfare policy, evidence based child welfare practices, the ongoing challenges of racial disproportionality and disparities, current challenges for children and families leading to child maltreatment, funding issues and federal mandates.

Upon graduation, students are expected to obtain employment in public or tribal child welfare services for 20 months. Since its inception in 2005, there have been 50 graduates. Thirty graduates are employed in rural child welfare settings, others have obtained their master's in social work following employment in public child welfare.



Three students who have received stipends from this project are Lensa Ahmed, left, Alyssa Wolf and Amber Wiese.

The Child Welfare Program is supported by Federal funds through the Title IV-E of the Social Security Act. The School of Health and Human Services at St. Cloud State University provides a match of time and effort. Funds from the program allow the Department of Social Work to support approximately 10 child welfare social work students.

SCHOOL OF PUBLIC AFFAIRS

King Banaian - \$14,633

School of Public Affairs Research Institute, "*Economic Impact of Minnesota Nurseries and Landscapers*" — Minnesota Nurseries and Landscapers Association

King Banaian - \$7,500

School of Public Affairs Research Institute, "Research Institute" — Initiative Foundation

King Banaian and Richard MacDonald - \$50,000

School of Public Affairs Research Institute, Economics, "*Central MN Quarterly Economic and Business Report*"— Minnesota Secretary of State

Steve Frank, Steve Wagner, Sandrine Zerbib, Michelle Hammes Kukoleca and John Kulas -\$70,000

St. Cloud State University Survey Center, "Annual Minnesota Lottery Survey"— Minnesota State Lottery

Nathan E. Hampton - \$10,647

Economics, "Input-Output Analysis" — Irrigators Association of Minnesota

Michelle Hammes Kukoleca, Steve Frank, John Kulas, Steve Wagner and Sandrine Zerbib -\$2,980

St. Cloud State University Survey Center, "Cable Television and Web Survey"— City of St. Cloud

Richard MacDonald and King Banaian - \$8,500

Economics/School of Public Affairs Research Institute, "*St. Cloud Quarterly Business Report*"— Greater St. Cloud Development Corporation

Steve Wagner, Steve Frank, Sandrine Zerbib, John Kulas and Michelle Hammes Kukoleca - \$6,500

St. Cloud State University Survey Center, "Tax Survey" — City of St. Cloud

STUDENT LIFE AND DEVELOPMENT

Corie Beckermann - \$36,974

Student Health Services, *"Student Insurance Advocacy"* — United Healthcare

Debra Carlson - \$1,900

Lindgren Child Care Center, "*Lindgren Child Care Center Outdoor Enhancement*" — Child Care Aware of MN Region 7W

Debra Carlson and Elizabeth Knudson - \$244,444

Lindgren Child Care Center, *"Young Student Parent Support Initiative"* — Minnesota Department of Health

John Eggers - \$101,918

Counseling and Psychological Services, *"Fostering a Community of Care: Suicide Prevention at St. Cloud State University"* — U. S. Department of Health and Human Services

Shawn Kakuk, Miguel Martinez-Saenz, and Shahzad Ahmad - \$299,999

Multicultural Student Services /University College, "Facilitating Responsible Educational Experiences (FREE) Success Program" — Great Lakes Community Foundation

Shawn Kakuk and Chee Moua-Yang - \$200,000

Multicultural Student Services /First Year and Transition Programs, *"Early Alert Success Team (EAST)"*— Great Lakes Community Foundation

Jen Sell Matzke - \$50,000

Student Life and Development, *"St. Cloud State University Recovery Community"*— St. Cloud State University Foundation

Jen Sell Matzke and Jennifer Johnson - \$1,500

Student Life and Development, *"Fetal Alcohol Syndrome Public Awareness"* — Minnesota Organization on Fetal Alcohol Syndrome

Jen Sell Matzke and Jennifer Johnson - \$30,000

Student Life and Development, *"What CHOICES do UCHOOSE?"*— National Collegiate Athletic Association

David McCandless - \$2,000

Student Life and Development, *"Live Glass-Blowing Demonstration at Lemonade Concert and Art Fair"* — Central Minnesota Arts Board

St. Cloud State offers 32 semester-long and short-term study-abroad opportunities in more than 20 nations, including the United Kingdom, Australia, Chile, Germany, Japan, South Korea, South Africa.

Promoting a Caring Community

By John Eggers

Promoting a Caring Community (PACC) is a grant-funded program that seeks to promote compassion and prevent suicide on our campus. Through the Substance Abuse and Mental Health Services Administration (SAMHSA), we have been awarded a threeyear \$300,000 grant to strengthen our commitment to the safety and wellbeing of our students. PACC enacts the prevention efforts of the grant, with the guiding philosophy that suicide prevention is everyone's concern.

PACC helps to fulfill St. Cloud State's commitment to the safety and growth of the whole student. The goals of the grant program are to: prevent suicide through the creation of a caring community, increase help-seeking behavior, reduce the stigma about mental health concerns, provide tools to instill compassionate responsiveness to students, and create a community that is healthier and stronger for all. These goals are achieved through training programs such as Question, Persuade, Refer (QPR) and Kognito At-Risk for faculty/staff and students. We also offer educational seminars and informational materials that include the warning signs of suicide, describe risk and protective factors, and promote resources such as the National Suicide Prevention Lifeline. The continued success of our grant programming has been due to the partnerships and collaborations across campus and in the greater community.



ST. CLOUD STATE UNIVERSITY

Through our grant efforts to date, PACC has brought about greater awareness of suicide prevention to over 13,000 students, faculty and staff. We have offered more than 50 educational programs and information sessions, more than 40 in-person training program sessions to more than 650 participants, and have had more than 400 people complete our online training program.

Key program staff include: Carrie Barth, coordinator of Suicide Prevention; John Eggers, director of Counseling and Psychological Services; Jen Matzke, assistant dean of students; and Charlotte Heinz, graduate assistant.

- According to the most recent NSSE survey, 24% of SCSU students report that they complete some form of international experience before they graduate.
- In our region, SCSU has the highest percentage of student of color participation in education abroad programs.

UNIVERSITY COMMUNICATIONS

Jo McMullen-Boyer - \$217,800

KVSC, "Arts and Cultural History Fund Grant" — Minnesota Department Of Administration

Jo McMullen-Boyer - \$87,274

KVSC, "*Community Service Grant*" — Corporation for Public Broadcasting

Jo McMullen-Boyer - \$16,157

KVSC, *"State Equipment Grant"*— Minnesota Department of Administration

Jo McMullen-Boyer - \$54,133

KVSC, *"State Community Service Grant"* — Minnesota Department of Administration

Jo McMullen-Boyer - \$21,000

KVSC, *"Support Program"*— St. Cloud State University Foundation

External Grants and Contracts SUMMARY

AWARDED FY14: **\$6,800,945 JULY 1, 2013 – JUNE 30, 2014**



Funding by College/School

Academic Affairs	\$2,441
Center for Continuing Studies	\$1,825,621
College of Liberal Arts	\$247,994
College of Science and Engineering	\$1,371,250
Herberger Business School	\$632,630
School of Education	\$238,597
School of Health and Human Services	\$97,496
School of Public Affairs	\$170,760
Student Life and Development	\$968,735
University Communications	\$396,364
Collaborative Projects	\$849,057
·	

Total

\$6,800,945



Funding By Source

\$581,276 \$1,715,645 \$1,701,509 \$30,292 \$260,805 \$64,257 \$764,218 \$1,682,944
\$6,800,945

- St. Cloud State earned a 2013 Senator Paul Simon Award for Comprehensive Internationalization from the NAFSA Association of International Educators, the largest professional worldwide education association.
- St. Cloud State was one of five U.S. institutions recognized that year for internationalization, as evidenced in practices, structures, philosophies and policies.

Minnesota Undergraduate **SCHOLARS**

FY2014 Research Profile

Minnesota Undergraduate Scholars is a consortium of Minnesota State Colleges and Universities (MnSCU) institutions that supports the research, scholarly works and creative activity of undergraduates by providing avenues for funding, presentation resources and opportunities for them to present their work. We are committed to engaging undergraduate students throughout the Minnesota State Colleges and Universities system in scholarly activities that will enrich their collegiate experience, open doors to career opportunities and lead to a life-long love of learning. Three events are supported by the Minnesota Undergraduate Scholars consortium:

- The Minnesota Undergraduate Scholars Conference
- The Minnesota Undergraduate Scholars Posters at St. Paul
 The National Conference on Undergraduate Research

POSTERS AT ST PAUL

Description:

On February 26, 2014, Minnesota Undergraduate Scholars, a consortium of MnSCU institutions, hosted Posters at St. Paul, a multi-disciplinary poster presentation session in the State Capitol rotunda. The event allowed undergraduate students to share the results of their work with leaders in our state government and highlight the exciting work being done at St. Cloud State and on MnSCU campuses statewide.

Congratulations again to the students selected to represent St. Cloud State!

LIST OF PRESENTERS:

Stephnie M. Fernando, Marketing, faculty mentor: Adesegun Oyedele, project: "Developed Markets are More Innovative than Emerging Markets"

Katie Kotschevar, Economics, faculty mentor: King Banaian, project: "Effect of Student Loan Debt on Homeownership"

Curtis Payne, Chemistry and Physics, faculty mentor: Mark Mechelke, project: "Synthesis of a Chemotherapeutic Drug: An Analogue of Goniothalamin"

Vang Xiong, Sociology and Anthropology, faculty mentor: Emily Schultz, project: "Rethinking Classroom Participation Among Hmong Students"

Middle right photo - St. Cloud State Undergraduate Scholars: Vang Xiong, Stephnie Fernando, Katie Kotschevara and Curtis Payne.

Bottom left photo - Nancy Mills, Vang Xiong, Raymond Philippot, Devinder Malhotra, Curtis Payne, Emily Schultz, Patricia Hughes, Stephnie Fernando and Katie Kotschevar.



4 R<u>esearch Profile</u>



MNSCU Undergraduate Scholars CONFERENCE

Conference of Undergraduate Scholarly and Creative Activity

Description:

The third annual MnSCU Undergraduate Scholars Conference was held on April 14, 2014. The event's purpose is to provide undergraduate students from MnSCU colleges or universities the opportunity to present their scholarly activity, increase intercampus engagement for both faculty and students and to highlight undergraduate excellence. Presentation formats included poster or paper presentations, artistic performances or gallery exhibits.

LIST OF PRESENTERS:

Hank Deuermeyer – Poster Presentation

"Synthesis, Crystallization and Time of Flight Measurements of Rubrene Analogs"

Faculty sponsors: Russ Lidberg and Tamara Leenay, Department of Chemistry and Physics

Sumeet Gupta – Poster Presentation

"Alcohol Use During Pregnancy in Meeker County" Faculty sponsors: Brenda Lenz, Vonna Henry and Mary Zelenak, Department of Nursing

Lindsay Hoffman and Symphony Moser - Poster Presentation

"Modifying Practice and Feedback Schedules to Improve Transfer of 'Pause' in Stuttering Treatment" Faculty sponsor: Sarah Smits-Bandstra, Department of Communication Sciences and Disorders

Megan Kallinen – Poster Presentation

"Practicing Pausing for Optimum Transfer: A Study of Treatment Efficiency" Faculty sponsor: Sarah Smits-Bandstra, Department of Communication Sciences and Disorders

Katie Kotschevar – Paper Presentation

"Effect of Student Loan Debt on Homeownership" Faculty sponsor: King Banaian, Department of Economics

Kayle Lyon and Melaine Day - Poster Presentation

"Practicing Easy Onset for Optimum Retention: A Study of Treatment Efficiency" Faculty sponsor: Sarah Smits-Bandstra, Department of Communication Sciences and Disorders

Michelle Moran, Katie Owen, Alesha McPhail and **Gayani Gamage – Poster Presentation**

"Mosquitoes and Diabetes: The Link Between an Organic Pollutant and Incidence of Type 1 Diabetes" Faculty sponsor: Marina Cetkovic-Cvrlje, Department of **Biological Sciences**

Bradley Nelson – Poster Presentation

"Personality Differences in Knowledge of Social Issues" Faculty sponsor: Jody Illies, Department of Psychology

Tashiana Osborne – Poster Presentation

"Bahamian Climate Reconstruction: Fire History" Faculty sponsor: Kate Pound, Department of Atmospheric and Hydrologic Sciences

Breana Ruud and Sami Ryan - Poster Presentation

"Modifying Practice and Feedback Schedules to Improve Transfer of "Easy Onset" in Stuttering Treatment" Faculty sponsor: Sarah Smits-Bandstra, Department of Communication Sciences and Disorders

Student Research COLLOQUIUM

FY2014 Research Profile

The 17th Annual Student Research Colloquium took place April 15, 2014. Throughout the day, 400 student presenters collaborating with more than 100 faculty sponsors on more than 250 projects on their research or creative activity. There were 160 poster presentations, 100 paper presentations and creative works from various academic fields at St. Cloud State University and St. Cloud Community and Technical College.

The Student Research Colloquium brings together students, faculty and community members involved in scholarly and artistic activities. By participating, students gain research expertise in their respective field of study working under the guidance of their faculty sponsor.



Best paper winner Marin Olson with faculty sponsor Marina Cetkovic-Cvrlje

2014 PAPER PRESENTATION AWARDS

Marin Olson- \$300 Best Paper Award

"Mosquitos and Diabetes: "Why Trying to Eradicate One Meant Trouble for the Other" Faculty sponsor: Marina Cetkovic-Cvrlje, Biology

Jordan Kuiper - \$150 Honorable Mention

"Pollutants and Type I Diabetes: A Persistent Problem" Faculty Sponsor: Marina Cetkovic-Cvrlje, Biology

Tessa Lunden- \$150 Honorable Mention

"Taijin Kyofusho in International Students at an American University" Faculty sponsor: Diana Rehling, Communication Studies

Rachel Murphy – \$150 Honorable Mention

"Planaria: A Potential Model Organism for Studying the Pharmacology of Convulsive and Anticonvulsant Drugs" Faculty Sponsor: Latha Ramakrishan, Chemistry

D'anna Nelson – \$150 Honorable Mention

"Cell Cycle Regulation Proteins of Toxoplasma Gondii as a Cell Division Model of Malaria" Faculty sponsor: Christopher Kvaal, Biology

Tashiana Osborne - \$150 Honorable Mention

"Forecasting Daily High Temperatures Using 850 Millibar Value Adjustment" Faculty sponsors: Brian Billings, Robert Weisman, Atmospheric and Hydrologic Sciences

Jason Tham - \$150 Honorable Mention

"Communicating with College Students about University Events: Exploring Preferred Social Media Channel and Message Lead"

Faculty sponsor: Matthew Vorell, Communication Studies

2014 POSTER PRESENTATION AWARDS

Michelle Moran, Gayani Gamage, Katie Owne, Alesha McPhail – \$300 Best Paper Award

"Mosquitoes and Diabetes: The Link Between an Organic Pollutant and Incidence of Type 1 Diabetes" Faculty sponsor: Marina Cetkovic-Cvrlje, Biology

Varshni Athmacharan – \$150 Honorable Mention

"Language Treatment Outcomes in Aphasia: Comparison of Two Treatment Protocols" Faculty sponsor: Grama Rangamani, Communication Sciences and Disorders



Best poster winners Michelle Moran, Gayani Gamage, Katie Owne and Alesha McPhail with faculty sponsor Marina Cetkovic-Cvrlje.

Danielle Goededen - \$150 Honorable Mention

"Shattering Misconceptions" Faculty sponsor: Keith Christensen, Art

Courtney Goulet, Sara Thompson – \$150 Honorable Mention

"Scaling of Feeding Biomechanics in the Northern Pike Esox Lucius: Functional Demands and Ontogenetic Constraints" Faculty sponsor: Takashi Maie, Biology

Katherine Koschak - \$150 Honorable Mention

"Unexamined Piety: Polish Ethnicity's Effects on Central Minnesota's Catholic Landscape" Faculty sponsor: Jeffrey Torguson, Geography and Planning

Rachel Murphy, Briegette Nelson, Shruti Jagannathan, Ryan Thomas – \$150 Honorable Mention

"Planaria: A Potential Model Organism for Studying the Pharmacology of Convulsant and Anticonvulsant Drugs" Faculty sponsor: Grama Rangamani, Communication Sciences and Disorders

Jennifer Rowan - \$150 Honorable Mention

"Novel Annotation of the Histidine Biosynthetic Pathway of Pseudomonas Fluorescents" Faculty sponsor: Christopher Kvaal, Biology

Student Research FUNDS

FY2014 Research Profile

St. Cloud State University considers research, scholarship or creative works performed under the direction of a faculty member as vital components of higher education. Each semester the university provides student research funds to undergraduate, graduate and doctoral students with those accepting an award presenting their project at the annual Student Research Colloquium.

Josh Anderson, Sarah Erickson and Sandra Stenerson - \$215

Communication Sciences and Disorders, "Resources and Strategies Used by Speech Language Pathologists to Address Ethical Dilemmas"

Joshua Robert Anderson - \$581

Communication Sciences and Disorders, "Positive Thinking Strategies for People Who Stutter"

Varshni Athmacharan - \$430

Communication Sciences & Disorders, "Language Treatment Outcomes in Aphasia: Comparison of Two Treatment Protocols"

Emily Bendoraitis - \$325

Communication Sciences and Disorders, "Disproportion of Culturally and Linguistically Diverse Children in Early Childhood Special Education"

Alissa Berthiaume, Syrena Bowen, Marnie McInnis, Meghan Miller, and Rochelle Swanson - \$215

Communication Sciences and Disorders, "Speech Language Pathologist's Satisfaction with Workplace Policies and Procedures"

Kyle Bertram, Kristin Lietzau, and Katy Platt -\$899

Biology, "Water Quality of South East St. Cloud Quarries"

Jame Brinkman, Aaron Iverson, and Michael Anderson - \$1,350

Physics, Mechanical and Manufacturing Engineering, "Pendulum Worm"

Justin Brown - \$621

Biochemistry, "Extraction, Spectral and Energy Characterization of Coffee Oil"

Molly Bruner, Jillian Daleiden, Kristen Schneider, and Kristen Weidner - \$215

Communication Sciences and Disorders, "Types of Ethical Issues Faced by Speech-Language Pathologists"

Intana Chanthirath - \$630

Biophysics, "Floating Frustules: Why do Some Siliceous Components Sink and Others Float, Observations of Cyclotella Meneghiniana in Mass Culture"

Kalee Cox - \$446

Biomedical Science, "Classification of the p38 MAP Kinase Stabilization Effect on PGC-1"

Natalie Cramer - \$570

College Counseling and Student Development, "Partnering to Reinvent Graduate Student Orientation"

Hank Devermeyer and Chad Whaylen- \$1,268

Chemistry and Physics, "Charge Carrier Transport in Organic Semiconductor Materials"

DeAnna Dvorak - \$1,275

Biology, "Developing Protocols for the Organic Production of Algal Bioproducts for Emerging Nutraceutical Markets"

Tia Ellis - \$280

Biology, "Investigation of the Population and Response of Gomphonemoid and Cymbelloid Shaped Diatoms in Unidirectional and Multidirection Flow Environments"

Courtney L. Goulet - \$273

Bilogical Sciences, "Scaling of Feeding Biomechanics in the Northern Pike Esox lucius: Functional Demands and Ontogenetic Constraints"

Sarah Hammad, - \$572

Chemistry, "Developing a Flourecent Tag for Diatoms with Utility to the Medical Community"

Joseph Harter and Casey Rowe - \$490

Chemistry and Physics, "Degenerate Four-Wave Optical Mixing for the Characterization of Organic Semiconductors"

Andres Heiling - \$210

Chemistry, "Iron Dissolution in Ilmenite Dust Aerosol"

Jack Hennes - \$464

M.A. English, "The Techno-Realists' Manifesto: How I Learned to Live with Machine Grading and Preserve Rhetorical Education in the Writing Classroom"

Lucas Jedlicka - \$377

Physics and Chemistry, "Determining the Surface Charge Mobility on Rubrene Using Lateral Field Time of Flight"

Felicity Johnson - \$350

Anthropology and Women's Studies, "*Traversing the Transition:* Gender Policing and Hypermasculinity in the Transgender Community"

Jenna Johnson - \$590

Biochemistry, Biomedical Science, *"The Effects of Dissolved Iron from Mineral Dust on the Growth and Cell Density of Cyclotella Meneghiaiana"*

Paul Keyworth - \$331

English as a Second Language, "The Acoustic Correlates of Stressshifting Suffixes in Native and Nonnative English"

Katharine Kipping - \$585

Biomedical Science, "Classification, Morphology, and Preservation of Cyclotella Americana"

Jordan Kuiper - \$1,500

Biology, "Does PCB-153, an Organic Persistent Pollutant, Affect Development of Autoimmune Type 1 Diabetes (T1D) in NOD mice?"

Das Lasman and Suri Josman - \$1,275

Biomedical Sciences, "To Investigate the Function of GABAergic Neurotransmission in Planaria Using Gas Chromatogrphy - Mass Spectrometry (GC-MS)"

Siu Pong Lo - \$750

Applied Economics, "Experimental Economics: Leadership and Trust"

James McDermond-Spies - \$1,275

Biology, "The Effect of CO2 Infusion on Biomass and Lipid Production in Cyclotella Meneghiniana"

Melyssa Rose McDonough - \$359

Applied Behavior Analysis, *"The Effect of Command Type on Delay to Student Responding"*

Alesha McPhail, Gayani Gamage, Katie Owen, and Michelle Moran - \$750

Biomedical Science, "The Effect of PCB-153 on the Incidence of Type 1 Diabetes in a NOD Mouse Model"

Meghan Miller- \$332

Communication Sciences and Disorders, "Cognitive Training: Effects on Cognition, Language, and Quality of Life"

Tiffany Mueller, Gavriella Aguilar, Dan Eliszewski, BrieAnna Lindquist, Natalie Stoppel, Tony Valentine, and Jon Ellig - \$614

Art, "The Journey Never Ends The River Simply Bends"

Yonathan Muluneh and Tee Vang - \$750

Chemisty, "Design, Synthesis and Bioevaluation of Novel Anticancer Compounds"

D'anna Nelson - \$450

Biotechnology, "Cell Cycle Regulation Proteins of Toxoplasma Gondii as a Cell Division Model of Malaria"

Jessica Onken, Paula Qualen, Stacey Regnier, Hannah Proell, and Emily Bendoraitis - \$215

Communication Sciences and Disorders, "Steps Speech-Language Pathologists Take to Resolve Ethical Dilemmas"

Micah Orsatti - \$350

Anthropology, Ecology and Field Biology, *"The Transience of Trans: Ontological Liminality in the Trans Existance"*

Alex Proskourine - \$124

Chemistry, "Synthesis, Characterization and Evaluation of the Stability of Acetyl Salicylic Acid Immobilized in a Hydrophobic and Hydrophilic Polymer Matrix"

Jared Sandler - \$500

English, "Class Captain to the Rescue"

Calder Siljander, Tessa Hirdler, and Melissa Floren - \$1,380

Business Management, Biomedical Science, "Leukocyte Characterization of NOD Mice Exposed to PCB-153"

Klint Skelly - \$155

Atmospheric and Hydrologic Science, "Investigating the Effects of Pressure Change on Cloud Droplets in a Vacuum Sealed Cloud Chamber"

Andrew Skytland - \$636

Chemistry, "Study of Infrared-absorbing Coating Materials"

Jennifer Steen, Samera De Silva, and Melvin Pena De Paz - \$393

Biomedical Science, Biology, "Effect of PCB-153 on Insulitis Development in NOD Mouse Model of Type 1 Diabetes"

Megan Stroh- \$245

Cultural Resource Management, *"Isle Royal National Park Relict Shorelines"*

Jason Tham - \$212

English & Mass Communications, "Personality and Advertising Appeals: A New Look on the Utility of Need for Cognition"

Jason Tham - \$444

English & Mass Communications, "Is there a Robot in This Class?: The Mechanization of Student, Teacher, and Text in the Writing Classroom"

Linnea Thomas - \$200

Biology - Masters, "Assessing Estrogenic Effects on Fish in Great Lake Tributaries"

Sara J. Thompson - \$305

Biology, "Effects of Contaminated Water Due to Mining Activities on the Vertebrae in Fishes: Material Testing and Functional Morphology as Assessment Tools for Environmental Risks"

Anil Timilsina, Abraham Oladepo, and Matthew Mueggenberg - \$750

Computer & Electrical Engineering, "*BMX Track Automation Using RFID*"

Alexis Washa, Thomas Larum, Deanne Kosel -\$858

Community Psychology, Applied Behavior Analysis, "A Hockeybased Slot Machine to Study 'Branding' in Slot Machine Gambling"

Nicole Wurdak - \$218

English, "The Impact of Meditation on ESL Student Writing Samples"

Vang Xiong - \$340

Sociology and Anthropology, "Hmong Students in American Classroom: Rethinking Classroom Participation among Hmong Students"

Abraham Yorek - \$127

Electrical Engineering, "Electrical and Mechanical Characterization of Biodegradeable Plastic Composites"

Mirza Zec and Chelsey Grassie - \$961

Biomedical Sciences, "Does PCB-153 Affect Function of Cultured Immune T Cells obtained from Diabetic-prone NOD Mice?"

New Researcher AWARDS

New researcher awards encourage newly hired faculty and staff to pursue research or scholarly activities by providing seed monies early in their career with St. Cloud State University.

Amy Knopf, \$9,000

Community Psychology, Counseling and Family Therapy, "Interdisciplinary Project: Improving Care for Persons with Disabilities"

Robbie Mann, \$4,000

Sociology and Anthropology, "*Recovering Micro Material Remains at the Little Elk River Mission Site*"

Godfrey Leung, \$4,000

Art, "Slow Art, or a Social Life of Reproductive Media in the Digital Age"

Marcia Scherer, \$4,000

Nursing, "Systematic Review of Recruitment and Retainment of Underrepresented Students into Baccalaureate Nursing Programs"

University Researcher FUNDS

University researcher funding provides a multi-faceted support system to help faculty and staff develop and hone the skills needed to be successful in seeking at least mid-level funding from external sources for research and scholarly or creative activities.

Ann Finan, \$10,000

Sociology and Anthropology, "Attitudes and Perceptions About Immigrants and Immigration in Non-Metro Minnesota"

Dennis Guster, \$9,992

Information Systems, "Optimizing Nano-tube Characteristics to Increase the Hydrogen Absorption Rates in Hydrogen Fuel Cell Design"

Melissa Hanzsek-Brill, \$4,282

Mathematics and Statistics, *"The Linguistic Structure of Number Names and its Impact on Elementary Students' Number Sense: A Study of Native English Speakers in a Chinese Language Immersion Program"*

Daren Protolipac, \$4,000

Psychology, "Dispositional, Situational and Motivational Approaches to Workplace Safety"

Mark Schmidt, \$5,000

Information Systems, "Computer Security for Pre College Students"

Tim Vogt, \$5,000

Electrical and Computer Engineering, "3-D NanoFab Preliminary Process Development"

Faculty Improvement Grants SHORT-TERM

The primary purpose of a short-term faculty improvement grant is educational in focus. The workshop or course should: Prepare the faculty member for current or new teaching assignments and/or align with the faculty member's professional development plan; be interactive, hands-on training focused on a single topic, and demand active participation; and a non-credit workshop or training program up to 14 days in length.

Julie Baugnet, \$1,755

Art, "International Poster and Graphic Design Festival of Chaumont"

Catherine Fox, \$3,000 English, "The True Secret of Writing Workshop"

Monica Garcia-Perez, \$906 Economics, "Annual Health Econometrics Workshop"

Phyllis Greenberg, \$876 Gerontology, *"Honoring Choices Advanced Care Planning Instructors Training Course"*

Michelle Kukoleca Hammes, \$1,375

Political Science, *"Creating Significant Learning Experiences: An Integrated Approach to Designing College"*

Melissa Hanzsek-Brill, \$620

Mathematics and Statistics, *"5th National Learning Assistant Workshop"*

Jayantha Herath, \$1,885

Computer Science and Information Technology, "Build a Multichannel Search and Track Radar"

Shawn Jarvis, \$1,484

Foreign Languages and Literature, "Summer Academy in Leipzig for U.S. American Faculty in German"

Eungmin Kang, \$1,790 Economics, "E-Views Forecasting Winter School"

Ezzat Kirmani, \$1,000 Mathematics and Statistics, *"CCNA Routing & Switching Bootcamp"*

Robbie Mann, \$638 Sociology and Anthropology, *"Trimble TerraSync and GPS Pathfinder Office Certified Training"*

Niloufer Merchant, \$1,381

Community Psychology, Counseling, and Family Therapy, "Eye Movement Desensitization Reprocessing (EMDR) Institute Basic Training Weekend 1"

Niloufer Merchant, \$1,137

Community Psychology, Counseling, and Family Therapy, "Eye Movement Desensitization Reprocessing (EMDR) Institute Basic Training Weekend 2"

Maria Mikolchak, \$3,000

Foreign Languages and Literature, "International Seminar Program for Further Professional Development of Teachers of German Language and Culture, 'Cliches and Biases'"

Carol Mohrbacher, \$289

English, "Copyright Law Update for Librarians, Faculty and Academic Administrators: The Courts Have Spoken"

G.N. Rangamani, \$307

Communication Sciences and Disorders, "Advance Care Planning -Facilitator Training Course"

R. Jeffrey Ringer, \$644

Communication Studies, "Certified Civil Arbitration Skills Training"

Thomas Sandford, \$2,159

Educational Leadership & Higher Education, "UT Summit Statistics Institute"

Marcia Scherer, \$1,396 Nursing, "Systematic Review Workshop"

Shoua Yang, \$3,000

Political Science, "Introduction to Beginner Thai"

Faculty Improvement Grants RESEARCH

Jeff Jiang-Ping Chen, \$5,480

Mathematics and Statistics, "Mei Wending and the Rise of Reasoning in 17th Century Chinese Mathematics"

William Gorcica, \$6,170

Art, "Artistic Design and Software Development of a 3-D River Simulation Environmental Learning Game"

Peter Happel Christian, \$8,170 Art, *"Half Wild"*

Shana Kaplow, \$8,961 Art, "Close to Home-A Painting and Video Installation"

Melissa Krause, \$4,702 Music, "*Trio Lorca CD Recording*"

Zengqiang Liu, \$9,988

Saigo

Physics and Astronomy, "Developing an Open Source Electronic Device for the Next Generation Laboratory Physics Education"

Research grant awards support research, creative achievement or the scholarly pursuit of knowledge using recognized procedures in the faculty member's discipline.

Takashi Maie, \$5,690

Biology, "Effects of Contaminated Water Due to Mining Activities on the Vertebrae in Fishes: Material Testing and Functional Morphology as Assessment Tools for Environmental Risks"

G.N. Rangamani, \$6,170

Communication Sciences and Disorders, *"Speech-Language Treatments for Stroke Survivors with Aphasia in Bilinguals"*

Gayan Rubasinghege, \$5,050

Chemistry and Biochemistry, "Linking Molecular Scale Iron Dissolution of Mineral Dust to the Biological Activity of Phytoplnaktons"

Heiko Schoenfuss, \$6,316

Biology, "Evaluating the Impact of Selective Pressures Across Tiers of Biological Organization in an Environmental Setting"

Rosemary Williams, \$10,000

Art, "After"

FACULTY AND STAFF EXCELLENCE FUND

Dr. Roy H. Saigo was president of St. Cloud State University from July 2000 until his retirement in June 2007. Drs. Roy and Barbara Saigo established the Saigo Endowment for Faculty and Staff Excellence Fund in 2007 out of a desire to help support faculty and staff in their ongoing professional development. The purpose of the fund is to encourage and assist faculty and staff with scholarly activities including professional presentations, performances and exhibitions, research and creative endeavors and publications.

Susantha Herath, \$100

Information Systems, "Impacts of Labor and Capital on Manufacturing Production Function"

Jim Knutson-Kolodzne, \$150

ENDOWMENT

American Indian Center, "Native Sky Watchers Workshop"

Heiko Schoenfuss, \$300

Biology, "Stairway to Heaven: Evaluating Levels of Biological Organization Correlated with the Successful Ascent of Natural Waterfalls in the Hawaiian Stream Goby Sicyopterus Stimposoni"

Sarah Smits-Bandstra, \$300

Communication Sciences & Disorders, "When Life Gives You Stuttering, Make Lemonade: Positive Thinking Strategies for People who Stutter"



Drs. Roy and Barbara Saigo



"The mission of St. Cloud State University is 'to prepare graduates for life, work and citizenship in the 21st century.' To keep this promise to students, faculty and staff have built and maintain a healthy, multi-cultural learning community where students can develop global and cultural understanding. St. Cloud State and the community of St. Cloud are living laboratories in which students put classroom learning into practice."

Earl H. Potter De

Earl H. Potter III President, St. Cloud State University



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