Commencement 2012

The Department of Computer Science & Engineering (CSE) graduated 55 students on Sunday, May 20, 2012. A departmental ceremony was held in the afternoon and attended by the graduates, their families, and CSE professors. This year’s faculty speaker, selected by the students, was Professor Nitin Chawla. Schubmehl-Prein Professor Kevin B. Bowman, the department’s chair, served as master of ceremonies. The ceremony was organized and coordinated by seniors Ryan Miller, Nicholas Schappell, and Stephanie Socie, with the help of Administrative Assistant, Ginny Watterson and Dian Wardinger.

This year’s Outstanding CSEG Senior recipient was Samuel Schalkwijk-Lopes and the Outstanding CS Award recipient was Jacob Wenger.

Seniors Brian Frisch, Samuel Schalkwijk-Lopes, and Christopher Mathew won first place for the Advanced Database Projects Competition held in Spring of 2012, sponsored by the Thomas Meurer Endowment Fund for Excellence. The second-place winning team included Seniors Samuel Clark, Matt Gallagher, Joey Rich. The winners were students enrolled in CSE 5076. Advanced Database Projects taught by Professor Ramzi Bualuan and studied topics such as database design, development and management.

The Outstanding CSEG Faculty Teaching Award was granted to Professor Danny Chen.

Students receiving their degrees at this ceremony were Kathryn Acedo, Nicholas Balsamo, Corey Brady, Andrew Brazas, Alexander Clark, Samuel Clark, Patrick Collard, Ryan Conrad, Ashley Crish, Ryan Crosby, Carl Culletta, Adrian Cunningham, James Denue, Mark Easley, Keith Feldman, Samuel Fekner, Brian Frisch, Benjamin Fuja, Max Gaborik, Matthew Gallagher, Zachary Gorevic, Jerome Hall, Hayley Hawkins, Chad Heise, Christopher Holpin, Matthew Jensen, Quinlan Johnson, Brian Kachmarik, Zachary Kappopulos, Brendan Kessler, Steven Keith, Willem Klein, Kathryn Labelle, Patricia Landers, John Liem, Anthony Maher, Christopher Mathew, Michael McIlhale, Ryan Miller, Andrew Mitrovicich, Maina Musa, Andrew Olsomacka, Dana Peters, Gregory Ruddy, Joseph Rich, Samuel Schalkwijk-Lopes, Nicholas Schappell, Stephanie Socie, Ryan Selaw, Charles Torbert, Zachary Tracy, Lindsay Wallen, Julie Wamer, Jacob Wenger, and Joshua Wise.

IN THIS ISSUE

— Commencement 2012
— Bengal Bowl Participants
— CSE Researchers Study Mobile Tools for Concussion Detection
— Fenker’s Research Featured in Nature.com
— Lichtenwalter Receives CRC Award
— Wei Wins Best Paper Award
— Thain Receives NSF Grant
— Steven Kurtz Awarded IBM Fellowship
— Fall Seminars by Fu Prize Winners Announced
— Sirjeel Appointed Associate Chair

ANNUAL EE-CSE PRE-GAME TAILGATE PARTY

September 8, 2012  Notre Dame vs. Purdue

PLEASE PRINT
NAME ____________________________
ADDRESS ____________________________
CITY/STATE/ZIP ____________________________
YEAR/DEPARTMENT GRADUATED FROM ____________________________
NO. OF TAILGATE TICKETS ONLY $17 EACH (NO LIMIT) TOTAL $ __________
NO. OF GAME & TAILGATE PACKAGES $90 EACH (LIMIT 2 PER ALUM) TOTAL $ __________
TOTAL AMOUNT ENCLOSED $ __________

Payable to: University of Notre Dame (we cannot accept credit cards)
Mail form with payment to:
EE-CSE Pre-game Tailgate Party
ATTN: Brooke Lawler
University of Notre Dame
275 Fitzpatrick Hall
Notre Dame, IN 46556-5637

July 2012
A newsletter of the Department of Computer Science and Engineering at the University of Notre Dame

CONTACTS:
Director of Undergraduate Studies: Professor Ramsey K. Bualuan
rbualuan@nd.edu

Director of Graduate Studies: Professor Douglas Thain
dthain@nd.edu

Department Chair: Schulmehl-Prein Professor Kevin B. Bowman
kevin.bowman@nd.edu

University of Notre Dame
Department of Computer Science and Engineering
381 Fitzpatrick Hall
Notre Dame, Indiana 46556-5637
Bengal Bouts

CSE had four students who participated in the Bengal Bouts for 2012, a boxing tournament to raise donations for the Holy Cross Missions in Bangladesh to fund schools (primary education through the college level) and health care. In 1981, Coach Dominic “Nappy” Napolitano started the Bengal Bouts, the charity tournament for the Holy Cross Missions.

We are proud of (picture left to right below) Steven Kraska, Anthony Maher, John Mapelli and Andrew Ofsonka who participated in this worthy cause.

Sam Fenker’s Research Featured in Nature.Com Article

Graduating senior Sam Fenker’s research in iris biometrics was presented at the Biometrics Workshop associated with the IEEE CVPR conference in June. Sam has worked on iris biometrics research with Professor Kevin Bowyer for the last two years, and has co-authored several previous papers. His latest paper presents results of an improved experimental investigation into template aging for iris biometrics.

The point of the experiment is to determine whether iris biometric performance degrades with increasing time between enrollment and recognition. The results in this paper are featured in a news article in Nature.Com.

Ryan Lichtenwalter Receives CRC Award

Ryan N. Lichtenwalter, advised by Professor Nitesh Chawla, is one of three winners of the 2012 CRC Award for Computational Sciences and Visualization. This award recognizes outstanding contributions in the areas of computational sciences and visualization. Ryan won the award for his LPMade software, which was accepted into the prestigious Journal of Machine Learning Research and which streamlines, parallelizes, increases the reproducibility of, and contributes new methods to link prediction and network science.

CSE Researchers Study Mobile Tools for Concussion Detection

Professors Christian Poellabauer and Patrick Flynn are mentioned in a Notre Dame on-line news article about concussion research in connection with the 82nd Bengal Bouts boxing event. In this research, mobile devices (iPads) are used to evaluate the athletes after each bout in their future research.

Dr. Poellabauer and Flynn will extend the iPad-based tests to include evaluations of reflexes, memory, and balance, with the goal to compare the detection accuracy of these different methods.

Clark and Emrich collaboration supported by NIH

Professor Patricia Clark (Chemistry and Biochemistry) and Professor Scott Emrich have received two years of new support for collaboration between their NIH-funded groups. These awards support promising new multidisciplinary collaborations, which for this project are new algorithms and validation of analysis of novel usage in hundreds of species. This will help decipher its role in co-translational folding important in some human diseases. Professor Tijana Milenkovic will also collaborate on this project by adding novel network analysis of codon usage of these data.

Fall Seminars By Fu Prize Winners Announced

The K.S. Fu Prize is awarded every other year by the International Association for Pattern Recognition. The most recent Fu Prize winner, Professor Horst Bunke from Bern, Switzerland, will be the Melchor Visiting Professor in CSE in the fall of 2012. A seminar series in the fall semester will feature talks by each of the last six winners of the Fu Prize.

Allen Hemberger Speaks On Movie Effects

2001 CSE grad Allen Hemberger spoke to over 150 people on Friday evening, April 13th. He discussed his experience in the movie special effects industry, including his most recent work on the Pixar film “Brave”. Allen has also worked on “Avatar”, “Kung Fu Panda”, “Cars 2” and a number of other films.

Steven Kurtz Awarded IBM Fellowship

Steven Kurtz, a doctoral candidate in the Department of Computer Science and Engineering advised by Professor Michael Niemier, has been awarded an IBM Ph.D. Fellowship for the 2012-2013 academic year. IBM describes the IBM Ph.D. Fellowship Awards program as “an intensely competitive worldwide program, which honors exceptional Ph.D. Students who have an interest in solving problems that are important to IBM and fundamental to innovation in many academic disciplines and areas of study. Award Recipients are selected based on their overall potential for research excellence, the degree to which their technical interests align with those of IBM, and their academic progress to date, as evidenced by publications and endorsements from their faculty advisor and department head.”

Steven received both his B.S. and M.S. degrees in Computer Science and Engineering from the University of Notre Dame. His research interests include nanomagnet logic architecture design and emerging technology benchmarking.

Thain Receives NSF Software Grant

Professor Douglas Thain has received a three-year grant from the National Science Foundation to support the continued research, development, and deployment of the Cooperative Computing Tools (CCTools) software. The grant was awarded through the new Software Infrastructure for Sustainable Innovation program. The CCTools software is used by researchers around the world to construct large scale applications and workflows in fields such as bioinformatics, molecular dynamics, high energy physics, and data intensive computing.

Striegel Appointed Associate Chair

CSE is pleased to announce that Professor Aaron Striegel has been appointed Associate Chair for the department as of May 2012. Dr. Striegel’s responsibilities will include assisting the Department Chair, Kevin W. Bowyer, in administrative and daily operational tasks, handling the accreditation process, and mentoring new faculty.