

Newsletter

The College of Physical and Mathematical Sciences

October 2003

In the Month of October...

Tuesday, October 7	Homecoming Opening Ceremonies
Thursday, October 9	College Honored Alumni Lecture Series - <i>Dr. Berthold W. Weinstein</i>
Tuesday, October 14	Devotional – <i>Bart. J. Kowallis, Professor of Geology</i>
Tuesday, October 21	Devotional – <i>Bishop Keith B. McMullin, Second Counselor in the Presiding Bishopric of the Church of Jesus Christ of Latter-day Saints</i>
Tuesday, October 28	Forum – <i>A. Brent Armstrong, Professor of manufacturing technology and holder of the Karl G. Maeser Distinguished Faculty Lecturer Award</i>
Friday, October 31	Holiday – <i>Halloween</i>

Research Funding

Kent Seamons, Computer Science Department, is the Principal Investigator on a new \$1.75 million NSF medium ITR grant awarded in September 2003. The research project, “Automated Trust Negotiation in Open Systems,” is a collaboration between BYU and five other institutions: the University of Illinois at Urbana-Champaign, George Mason University, University of Southern California, Purdue University, and Stanford University. Kent is a co-Principal Investigator on a new \$12.5 million NSF large ITR grant that was also awarded in September 2003. The project, “Responding to the Unexpected,” is a collaboration between the University of California - Irvine, University of California - San Diego, University of Illinois at Urbana-Champaign, University of Colorado, University of Maryland, and ImageCat, Inc.

Department of Statistics Holds Opening Social

The Department of Statistics held their annual opening social, hosted by the Mu Sigma Rho student organization, on September 19, 2003. Approximately 140 people enjoyed a dinner of tacos, burritos, chips and salsa, salad, drinks and cookies under the canopy on the Helaman West Field. Under the influence of the “hot sauce,” faculty and students competed in an invigorating flag football game! No injuries, except to pride, were reported!

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College Publications

Department of Chemistry & Biochemistry

D.G. Rea, W. Balcavage, L. Battist, R.W. Baier, L. Berkowitz, T. Bossler, R. Browning, W. Carter, J. Cline, S.-S. Fan, R.G. Freeman III, L.D. Hansen, D. Herman, P. Hemmig, J.G. Honig, A.W. Jache, L. Kiernan, F. Koomanoff, P. Melville, R.C. Oliver, R.J. Ringlee, G. Szego, W. Zeitler, "An Assessment of Technology Options for Reducing and Eventually Eliminating the Emission of Carbon Dioxide into the Atmosphere," Report of a Study for the Subcommittee on Energy of the Committee on Science of the U.S. House of Representatives, *Senior Scientists & Engineers*, American Association for the Advancement of Science, Washington DC, May 24, 2003.

J.C. Borges, H. Fischer, A.F. Craivichi, L.D. Hansen, and C.H.I. Ramos, "Free Human Mitochondrial GrpE Is a Symmetric Dimer in Solution," *J. Biological Chemistry*, **278**(37), 35337-35344 (2003).

U. Olsher, N.K. Dalley, F. Frolow, G. Shoham, and R.A. Bartsch, "Evolution of Organized Lariat Ether Alcohol and Diol Hydrate Macrostructures in the Solid State," *J. Incl. Phenom. and Macrocy. Chem.*, **45**, 251-255 (2003).

Department of Computer Science

Justin Talbot and Parris K. Egbert, "VTVS - A Complete Implementation of a Virtual Terrain Visualization System," *Proceedings of Visualization, Imaging, and Image Processing*, 981-986, September 2003.

Thomas Howard and Bryan Morse, "Interactive Level-Set Smoothing for Photo Editing," *Proceedings of the IEEE International Conference on Image Processing (ICIP 2003)*, September 2003.

J. Holt, R. Bradshaw, K. E. Seamons, and H. Orman. "Hidden Credentials," 2nd ACM Workshop on Privacy in the Electronic Society, Washington, DC, October 2003.

Quan Wang and Yiu-Kai Ng, "An Ontology-Based Binary-Categorization Approach for Recognizing Multiple-Record Web Documents Using a Probabilistic Retrieval Model," *Journal of Information Retrieval*, **6**, 295-332 (2003).

Department of Mathematics

J. W. Cannon, W. J. Floyd, R. Kenyon, and W. R. Parry, "Constructing Rational Maps from Subdivision Rules," *Conformal Geometry and Dynamics: An Electronic Journal of the American Mathematical Society*, **7**, 76-102 (2003).

Department of Physics and Astronomy

Sobel'man, I.I.; Shevel'ko, A.P.; Yakushev, O.F.; Knight, L.V.; Turley, R.S. "An intense VUF radiation capillary-discharge plasma source," *Kvantovaya Elektronika*, **33**, 3-6 (2003).

Department of Statistics

Rushton, P., Eggett, D., Sutherland, C. W., "Knowledge and Attitudes About Cancer Pain Management: A Comparison of Oncology and Nononcology Nurses," *Oncology Nursing Forum*, **30**, 849-855 (2003).

Graves, T.L., Reese, C. S., and Fitzgerald, M., "Hierarchical Models for Permutations: Analysis of Auto Racing Results," *Journal of the American Statistical Association*, **98**, 282-291, (2003).

Johnson, V. E., Graves, T. L., Hamada, M. S., and Reese, C. S., "A Hierarchical Model for Estimating the Reliability of Complex Systems," (with discussion), *Bayesian Statistics*, **7**, 199-214 (2003).