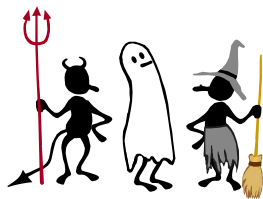




College of Physical and Mathematical Science

NEWSLETTER

October 2002



...COLLEGE NEWS...

COX-3 Found

New Variant of cyclooxygenase may explain acetaminophen mechanism

Dan Simmons and Terry Elton, of the Chemistry & Biochemistry department, recently released paper on the COX-3 enzyme has been featured in a number of publications including *Chemical & Engineering News* and *Science News*. Helping Dan and Terry were a postdoctoral fellow, and graduate as well as undergraduate students. "For decades, millions of physicians have advised their patients to take acetaminophen - the drug behind "aspirin-free" pain relievers like Tylenol - without understanding how or why the popular medicine works. Now, a new Brigham Young University study has discovered what could be the enzyme the drug attacks to relieve pain." (Courtesy BYU News Release. For more information on this please visit www.byu.edu/news/releases.) Congratulations!

Mathematical Reviews

Congratulations to Ty Jarvis, of the Mathematics Department, who received an excellent review in *Mathematical Reviews* for his article "Moduli spaces of higher spin curves and integrable hierarchies," *Compositio Math.* 126(2), 157-212 (2001).

"In the paper under review the authors present a precise mathematical formulation of this conjecture and prove it in several special cases, including the genus zero case.

"The authors successfully manage to prove a rigorous setup and a precise formulation of fascinating ideas from physics by a detailed explanation of the main motivations underlying their work. The intriguing conjectures stated at the end of the paper are a direct consequence of the technical (but very lucid) presentation of results and constructions given in the paper."



Frank Wilcoxon Prize Awarded to Three Department of Statistics Professors

The Chemical and Process Industries Division of the American Society for Quality announced that the Frank Wilcoxon Prize for the best practical application paper published in 2001 in *Technometrics* was awarded to Dr. Scott Grimshaw, Dr. Bruce Collings, Dr. Wayne Larsen and Carolyn Hurt. This is an "All BYU" team and they can feel justly honored for this award. Their paper was titled "Eliciting Factor Importance in a Designed Experiment" (*Technometrics*, Vol. 43, No. 2, pp 133 - 146, May 2001). The Division will present the award at the 46th Annual Fall Technical Conference in Valley Forge, Pennsylvania, on October 17 & 18, 2002. Scott Grimshaw will be attending the Conference to receive the award which consists of a certificate for each person and a \$1000 prize.

Technometrics is published quarterly by the American Society for Quality and the American Statistical Association. Since its inception in 1959, the mission of *Technometrics* has been to contribute to the development and use of statistical methods in the physical, chemical, and engineering sciences.

DEPARTMENT OF STATISTICS AWARD

The Strategic Management Society awarded four Brigham Young University Professors the best paper prize last week at the organization's 22nd annual conference in Paris, France.

The best paper prize was awarded to BYU statistics professors C. Shane Reese and Gilbert W. Fellingham and Marriott School strategy professors Mark H. Hansen and Lee T. Perry for their paper, "A Bayesian Application of the Resource-Based View: Narrowing the Gap Between Theory and Practice."

Other finalists for best paper came from top strategy schools including Harvard, INSTEAD, and The University of Pennsylvania's Wharton School. SMS narrowed best paper selection from more than 600 abstracts to 10 papers presented at the conference. Congratulations!

LARA WOLFSON ON SABBATICAL FROM DEPARTMENT OF STATISTICS

Dr. Lara Wolfson is spending the 2002-2003 academic year on sabbatical with the Vaccine Assessment and Monitoring Team at the World Health Organization in Geneva, Switzerland. While there, she will be continuing a long-standing collaboration on the development and improvement of methods to estimate childhood immunization coverage. She will also be involved in producing national and global estimates of disease burden for vaccine-preventable diseases, and the development of statistical tools for use in performance assessment and funds distribution for the Global Alliance on Vaccines and Immunizations (GAVI).



Sterling Hilton Receives Fellowship

Sterling Hilton from the Department of Statistics has been selected as a Brigham Young University Teaching and Learning with Technology Fellow. His appointment is for the 2002-2003 academic year. As a Teaching and Learning with Technology Fellow he will receive support from an Instructional Designer and a student assistant from the Center for Instructional Design as he redesigns his course. He will also receive a new laptop and \$1000.00 in professional-development funds.



Department of Chemistry and Biochemistry

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