

May 2003

Newsletter

In the Month of May...

Tuesday, May 6 - Forum:
Margaret Barker, Old
Testament scholar and
Methodist minister

Sunday, May 11 -
Holiday: Mother's Day

Tuesday, May 13 -
Devotional: H. Dennis
Tolley, Department of
Statistics

Tuesday, May 20 -
Devotional: Elder David E.
Sorensen, of the
Presidency of the Seventy
of The Church of Jesus
Christ of Latter-day Saints

Monday, May 26 -
Holiday: Memorial Day

Tuesday, May 27 -
Devotional: E. Kay Stice,
Department of Accounting



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The College of Physical and Mathematical Sciences

Department Chair Appointments

The Academic Vice President has announced the following 3-year appointments beginning summer 2003:

Department of Mathematics

| | |
|-----------------|-------------|
| Chair | Lynn Garner |
| Associate Chair | Chris Grant |

Department of Mathematics Education

| | |
|-----------------|------------------|
| Chair | Gerald Armstrong |
| Associate Chair | Steve Williams |

Department of Physics & Astronomy

| | |
|-----------------|---------------|
| Chair | Steven Turley |
| Associate Chair | Ross Spencer |

Department of Statistics

| | |
|-----------------|--------------------|
| Chair | Howard Christensen |
| Associate Chair | Bruce Schaalje |

BYU Alumnus Granted a CAREER Award

Chongchun Zeng, who graduated from the Department of Mathematics with a Ph.D., was recently granted a Faculty Early Career Development (CAREER) Award by the National Science Foundation. This award is highly competitive and a very prestigious honor. Over a period of 5 years he will be rewarded about \$400,000.

To learn more about Dr. Zeng's project please visit the NSF webpage at:
<https://www.fastlane.nsf.gov/servlet/showaward?award=0239389>



Newsletter Correction

We apologize for the misspelling of Jasbir Chahal's name in the April Newsletter under the listings of the recent Rank Advancements.

Summer Institute of Applied Statistics

The Department of Statistics will host its 28th Annual Summer Institute of Applied Statistics Wednesday through Friday, June 25, 26, and 27, 2003. The featured speaker of the seminar is Dr. Bruce Weir, director of the Bioinformatics Center at North Carolina State University. His presentation is entitled "Statistical Genetics."

Dr. Weir received his Ph.D. in Statistics from North Carolina State

University and currently holds the prestigious William Neal Reynolds Chair at North Carolina State University. He has published more than 125 articles, has edited or written nine books, and holds an editorial position at five periodicals, including *Genetics* and the *American Journal of Human Genetics*.

This short course will concentrate on modern areas of statistical genetics, including the

analysis of genetic data, inbreeding and linkage disequilibrium, population structure and genetic distance, disease association, and forensic applications. The methodology covered will be illustrated by a series of real-world examples.

Further information about Dr. Weir and the registration form can be found on our Web page at: <http://statistics.byu.edu/summerinstitute/index.html>.

"This short course will concentrate on modern areas of statistical genetics..."

A Month of Celebration in the Department of Statistics

Mu Sigma Rho held their closing social April 10, 2003 in the Wilkinson Student Center Garden Court. They hosted a potato bar with chili and all the trimmings. Faculty and students furnished additional salads, drinks and desserts. Approximately 40 people enjoyed the food and one another's company. The new officers for Fall 2003 and Winter 2004 were introduced at the social. They are David Palmer, President; Gina

Borrowman, Vice-President; Kim Mah, Treasurer; Stephanie Cardon, Secretary.

On April 16, 2003 the statistics graduates were invited to a pizza party held in their honor at the Pizza Factory. The graduates took turns telling about their immediate plans. A group of 44 made up of graduates, faculty, and staff attended the fun event.

Following an exceptionally enjoyable Convocation on April 25, 2003, the graduates and their family and friends attended an open house in their honor in the Wilkinson Student Center.



Geology Club Wins Chapter Award

The BYU Geology Club, which is also a student chapter of the American Association of Petroleum Geologists (AAPG), has been chosen by the AAPG to

receive the Outstanding Student Chapter Award for 2003. Schlumberger supports this award by paying \$500 to two chapters each year. The award is based

upon the activity of student chapters over the past 2-3 years.



College Publications

Department of Chemistry & Biochemistry

Z.D. Peterson, C.R. Bowerbank, D.C. Collins, S.W. Graves, and M.L. Lee, "Advantages and Limitations of Coupling Isotachopheresis and Comprehensive Isotachopheresis Capillary Electrophoresis to Time-of-flight Mass Spectrometry," *J. Chromatography A*, **992**, 169-179 (2003)

M.R. Linford, D.S. Soane, and D.A. Offord, "Water-repellent and Soil-resistant Finish for Textiles," United States Patent No.: US 6,544,594 B2, April 8, 2003

C. Albermann, A. Soriano, J. Jiang, H. Vollmer, J.B. Biggins, W.A. Barton, J. Lesniak, D.B. Nikolov, and J.S. Thorson, "Substrate Specificity of NovM: Implications for Novobiocin Biosynthesis and Glycorandomization," *Organic Lett.*, **5**(6), 933-936 (2003)

Department of Computer Science

D.K. Vawdrey, E.S. Hall, C.D. Knutson

and J.K. Archibald, "Enabling Remote Access to Personal Electronic Medical Records." *IEEE Engineering in Medicine and Biology Magazine*, 22(2), May/June 20

Department of Geology

C. D. Morgan, J. W. Gwynn, M. L. Allison, M.. D. Deo, R. Jarrard, T. H. Morris, and C. N. Tripp, "Characterization of the Bluebell Oil Field, Uinta Basin, Duchesne and Uintah Counties, Utah in Morgan, C. D., ed., The Bluebell Oil Field Uinta Basin, Duchesne and Uintah Counties, Utah: Characterizations and Oil Well Demonstration," *Utah Geological Survey*, Special Study **106**, 1-59, (2003).

A. L. Mayo, S. Nelson, J. Noakes, D. G. Tingey, and R. Culp, "Application of stable and radiogenic isotopic techniques to problems of surface and groundwater interaction." *Proceedings of the 2003 Georgia Water Resources Conference, April 23-24, University of Georgia*, (2003)

C. Carreon-Diazconti, S. Nelson, A. L. Mayo, D. G. Tingey, and M. Smith, "A

Mixed Groundwater System at Midway, Utah: Discriminating Superimposed Local and Regional Discharge." *Journal of Hydrology*, **273**, 119-118, (2003)

Department of Physics & Astronomy

J.P. Lewis, "Energetics of intermolecular HONO formation in condensed-phase octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)", *Chemical Physics Letters* **371**, 588-593 (2003)

I.I. Sobelman, A.P. Shevelko, O.F. Yakushev, L.V. Knight, R.S. Turley, "A capillary discharge plasma source of intense VUV radiation," *Quantum Electronics* **33** (1), 3-6 (2003)

Department of Statistics

R.M. Merrill, S.C. Hilton, C.L. Wiggins, J.D. Sturgeon, "Toward a Better Understanding of the Comparatively High Prostate Cancer Incidence Rates in Utah," *BMC Cancer* **2003**, **3**(14), 2003

R.W. Harris, E. Kim, and D.L. Eggett, "Psychometrically equivalent Korean bisyllabic words spoken by male and female talkers," *Korean Journal of Communication Disorders*, **8**(1) 217-243, 2003

R.W. Harris, E. Kim, and D.L. Eggett, "Psychometrically equivalent Korean monosyllabic speech discrimination materials spoken by male and female talkers," *Korean Journal of Communication Disorders*, **8**(1) 244-270, 2003

Science by its very limitations can instill the humility
which helps us to listen. When science serves that purpose
it becomes tremendously important.

Henry B. Eyring, "My Father's Formula," *Ensign*, Oct. 1978, 28