

March 2004

Newsletter

The College of Physical and Mathematical Sciences

In the Month of March ...

- **Tuesday, March 2-**
Devotional: Dilworth Parkinson, professor of Arabic in the Asian and Near Eastern Languages Department at BYU
- **Tuesday, March 9 –**
Devotional: BYU Combined Choirs
- **Tuesday, March 16 –**
Devotional: Elder Neal A. Maxwell, a member of the Quorum of the Twelve Apostles of The Church of Jesus Christ of Latter-day Saints
- **Saturday, March 20 –**
Spring Research Conference
- **Tuesday, March 23-**
Forum: Brad Gregory, a professor of history at the University of Notre Dame
- **Tuesday, March 30 –**
Devotional: Lora Beth Brown, associate professor of nutrition, dietetics and food science at BYU

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Spring Research Conference

This is a reminder of the upcoming annual spring research conference. It will be held on March 20th and will go from 8 am to 12 noon. There will be 288 presentations this year. We encourage everyone to attend and hope to see you there.

Congratulations to Dan Olsen

Dan R. Olsen, Professor of Computer Science, was notified last month of his election to membership in the Computer Human Interaction Academy. The CHI Academy elects just 5 researchers annually from an international community of about 6,000 scientists who are at the forefront of this important area of computer science. Induction will take place in Vienna in late April. Election to the Academy is a signal honor for Dan, and reflects positively on both the department and the university, as well. Our hearty congratulations to you, Dan!



Family History Technology Workshop

The Computer Science Department will be hosting its 4th Annual Family History Technology Workshop on Thursday, March 25th in the BYU Conference Center. This workshop provides a forum for presenting and discussing current and emerging research work on technology that supports family history and genealogy. The format of the workshop will include a keynote speaker, panel discussions and technical presentations. We invite all who enjoy learning about emerging and enabling technologies as they apply to genealogical research. For registration and more information about this workshop, please visit www.fht.byu.edu or contact Kendra Hernandez at 422-1472.

College Publications

Chemistry and Biochemistry

G.S.C. Srikanth and S.L. Castle, "Synthesis of -Substituted -Amino Acids via Lewis Acid Promoted Radical Conjugate Additions to Unsaturated -Nitro Esters and Amides," *Org. Lett.*, **6**(3), 449-452 (2004).

G. Jiang, T.L. Niederhauser, S.A. Fleming, M.C. Asplund, and M.R. Linford, "Evidence for a Radical Mechanism in Monolayer Formation on Silicon Ground (or Scribed) in the Presence of Alkyl Halides," *Langmuir*, **20**, 1772-1774 (2004).

Y. Ma, C. Song, C. Ma, Z. Sun, Q. Chai and M.B. Andrus, "Asymmetric Addition of Aryl Boron Reagents to Enones with Rhodium Dicyclophane Imidazolium Carbene Catalysis," *Angew. Chem. Int. Ed.*, **42**, 5871-5874 (2003).

Y. Ma, C. Song, Q. Chai, C. Ma, and M.B. Andrus, "Palladium-Imidazolium *N*-Heterocyclic Carbene-Catalyzed Carbonylative Amidation With Boronic Acids, Aryl Diazonium Ions, and Ammonia," *Synthesis*, **18**, 2886-2889 (2003).

Brown, B.R., Niederhauser T.L., Merekley E.D., Woolley E.M., "Apparent molar volumes and apparent molar heat capacities of aqueous lead nitrate at temperatures from 278.15 K to 393.15 K and at the pressure of 0.35 MPa," *J. Chem. Thermodynamics*, **36**, 71-77 (2004).

Ziemer S.P., Niederhauser T.L., Sargent J.D., Woolley E.M., "Apparent molar volumes and apparent molar heat capacities of aqueous sodium bromide and sodium fluoride at temperatures from (278.15 to 393.15) K and at the pressure of 0.35 MPa," *J. Chem Thermodynamics*, **36**, 147-154 (2004).

Geology

Shigley, J.E., Thompson, T.J., and Keith, J.D., "Red Beryl from Utah: a Review and Update," *Gems & Gemology*, **39** (4), 302-313 (2003).

Cecil, C.B., Dulong, F.T., Harris, R.A., Cobb, J.C., Gluskoter, H.G., and Nuroho, H., "Observations on climate and sediment discharge in selected tropical rivers, Indonesia," in Cecil, C.B. and Edgar, T., *Climate Controls on Stratigraphy*, Soc. Sedimentary Geology Special Publication, **77**, 29-50 (2003).

Mathematics

Dorff M., Naraniecka I., and Szynal J., "Doubly close-to-convex functions," *Journal of Mathematical Analysis and Applications*, **290**, 55-62 (2004).

Physics

Gee K.L. and Sommerfeldt S.D., "Application of theoretical modeling to multichannel active control of cooling fan noise," *J. Acoust. Soc. Am.*, **115**, 228-236 (2004).

Statistics

Draper, D.O., Castro, J.L., Feland, B., Schulthies, S., and Eggett, D. L., "Shortwave Diathermy and Prolonged Stretching Increase Hamstring Flexibility More Than Prolonged Stretching Alone," *Journal of Orthopaedic & Sports Physical Therapy*, **34**(1), 13-20 (2004).

Bryce, G.R., "Your Opinion: What influence Is The Six Sigma Movement Having In Universities? What Influence Should It Be Having?" *ASQ Six Sigma Forum Magazine*, **3**(2), 38-40 (2004).