

# Newsletter

College of Physical and Mathematical Sciences

April 2003

## Just a Reminder...

Commencement and Convocation are Thursday, April 24<sup>th</sup> and Friday, 25<sup>th</sup>, respectively. Remember that faculty members are expected to attend at least once per year.

## Mu Sigma Rho Closing Social

The Department of Statistics Mu Sigma Rho club held their closing social on April 10, 2003. Approximately 40 people enjoyed a potato bar/pot luck supper in the Garden Court of the Wilkinson Center. The new Mu Sigma Rho officers were introduced and shared their goals for Mu Sigma Rho for the coming year. They are: President: David Palmer, Vice President: Gina Borrowman, Secretary: Stephanie Cardon, and Treasurer: Kim Mah. Several faculty members were highlighted. Marci Mangelson, team captain of the BYU women's racquetball team, elaborated on the teams recent 1<sup>st</sup> place win.

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## Rank Advancement

Please join in congratulating our colleagues who have recently achieved Continuing Faculty Status (CFS) and/or rank advancement.

### Chemistry & Biochemistry

Greg Burton	CFS and promotion to Professor
Brian Woodfield	CFS and promotion to Associate Professor

### Computer Science

Quinn Snell	CFS and promotion to Associate Professor
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### Geology

Michael Dorais	Promotion to Research Professor
Stephen Nelson	CFS
David Tingey	Promotion to Research Professor

### Mathematics

Jasper S. Chahal	Promotion to Professor
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### Statistics

Dennis Eggett	CFS
Lara Wolfson	CFS and promotion to Associate Professor

# COLLEGE PUBLICATIONS

## Department of Chemistry and Biochemistry

N. Yin, R.L. Marshall, S. Matheson, and P.B. Savage, "Synthesis of Lipid A Derivatives and Their Interactions with Polymyxin B and Polymyxin B Nonapeptide," *J. Am. Chem. Soc.*, **125**(9), 2426-2435 (2003)

G.A. Husseini, L.W. Zilch, E.T. Sevy, M.C. Asplund, and M.R. Linford, "Alkyl Monolayers on Silica Surfaces Prepared from Neat, Heated  $\text{ClSi}(\text{CH}_3)_2(\text{CH}_2)_{17}\text{CH}_3$  Analyzed by XPS," *Surface Science Spectra*, **8**(4), 274-283 (2001) © 2003 American Vacuum Society

G.A. Husseini, M.R. Linford, M.C. Asplund, J. Peacock, and E.T. Sevy, "Alkyl Monolayers on Silica Surfaces Prepared from Neat, Heated 3-Glycidoxypropyldimethylethoxysilane Analyzed by XPS," *Surface Science Spectra*, **8**(4), 291-296 (2001) © 2003 American Vacuum Society

G.A. Husseini, A. Sathyapalan, E.T. Sevy, M.R. Linford, and M.C. Asplund, "Alkyl Monolayers on Silica Surfaces Prepared from Neat, Heated  $\text{ClSi}(\text{CH}_3)_2(\text{CH}_2)_6\text{CH}=\text{CH}_2$  Analyzed by XPS," *Surface Science Spectra*, **8**(4), 284-290 (2001) © 2003 American Vacuum Society

Y. Yang, D. Henderson, and D. Busath, "Applied-field Molecular Dynamics Study of Model Calcium Channel Selectivity Filter," *J. Chem. Phys.*, **118**, 4213-4220 (2003)

## Department of Computer Science

L. Xu and D.W. Embley, "Discovering direct and indirect matches for schema elements," *Proceedings of the 8th International Conference on Database Systems for Advanced Applications (DASFAA 2003)*, Kyoto, Japan, 26-28 March 2003, 39-46

## Department of Geology

M. T. Dunn, R. H. Mapes and J. K. Rigby, "A land plant not a sponge: a re-evaluation of the Mississippian demosponge *Vintonia* and the Family Vintoniidae," *Journal of Paleontology*, **77**(2), 397-399, (2003).

Ó.C. Castañeda and W. E. Miller, "Inmigrantes sudamericanos en las faunas del terciario tardío del centro de México," *Avances en los estudios paleomostozoológicos*, 69-81, (2002)

W. E. Miller and Óscar Carranza Castañeda, "Importance of Mexico's late Tertiary mammalian faunas," *Avances en los estudios paleomostozoológicos*, 83-102, (2002)

## Department of Mathematics

G.R. Conner and H. Fischer, "The fundamental group of a visual boundary versus the fundamental group at infinity," *Topology and Its Applications*, **129**, 73-78 (2003)

## Department of Physics and Astronomy

J.P. Lewis, T.E. Cheatham III, E.B. Starikov, H. Wang, O.F. Sankey, "Dynamically Amorphous Character of Electronic States in Poly (dA)-Poly(dT)," *The Journal of Physical Chemistry*, **107**(11), 2581-2587 (2003)

J.P. Fugal and J.W. Moody, "The Feasibility of a Galaxy IR Slitless Prism Survey," *PASP*, **115**, 295-302 (2003)

S.N. Rasband and R.L. Spencer, "Modes in a non-neutral plasma of finite length,  $m=0,1$ " *Physics of Plasmas*, **10**(4), 948 (2003)

T.W. Leishman and J. Tichy, "On the significance of reflection coefficients produced by active surfaces bounding one-dimensional sound fields," *Journal of the Acoustical Society of America*, **113**(3), 1475-1482 (2003)

H. Wider, V. Gimple, W. Evenson, G. Schatz, J. Jaworski, J. Prokop and M. Marszalek, "Surface alloying of indium on Cu(111)," *J. Phys.: Condens. Matter* **15** (2003) 1909-1919

## Department of Statistics

J. Lawson, "One Step Screening and Optimization Experiments," *The American Statistician*, **57**(1), 15-20, 2003

J. Lawson, C. Wesselman, D.T. Scott, "Simple Plots Improve Software Reliability Prediction Models," *Quality Engineering*, **15**(3), 411-417, 2003