College of Physical and Mathematical Sciences

Newsletter

February 2003

ÑÑÑCollege NewsÑÑÑ

College Dinner

Friday, January 31, 2003, was our Annual College Dinner. Everything was lovely and we want to again thank all those who were involved in helping. We would also like to offer another congratulations and job well done to those who received awards.
University Service Awards went to….

For 5 years of service
Greg Corlett
Susan Tachka

For 10 years of service
Ruth Dauwalder
Peggy Erickson

For 15 years of service
Katie Rollins
Marie Cornwell
Kim Sullivan
Kris Mortenson

For 25 years of service
Merle White

Three College Recognition Awards were also given. The Outstanding Staff/Administrative Employee Award was given to Lonnette Stoddard. Excellence in Teaching Award for faculty with 3-10 years of service was given to Justin Peatross. The Excellence in Teaching Award for faculty with 10 or more years of service was given to Dennis Tolley.
More can be read about these colleagues by going to the College News and Information page http://cpms.byu.edu/cpmsnews.php and clicking on College Service Awards-January 31, 2003.

The New Math Lab

Grand Opening of the Math Lab was on Thursday, January 23rd. We congratulate those involved, specifically the Department of Mathematics, for putting such a wonderful facility together for students. President Bateman, Alan Wilkins, and Noel Reynolds were among the attendees. More pictures can be found by going to the College News and Information page http://cpms.byu.edu/cpmsnews.php and clicking on New Math Lab.

Copyright Policy

With the ability to make course materials available on the web (with or without Blackboard), questions have arisen about copyright. A general college policy can be found on the College News and Information page, http://cpms.byu.edu/cpmsnews.php, by clicking on Copyright Policy. This policy may not answer your specific copyright question, but it will point you to the resources that can provide those answers. Many questions can be answered by referring to easily accessible online documents. The Copyright Licensing Office will also be happy to help with any questions.



COLLEGE PUBLICATIONS

Department of Chemistry and Biochemistry

R.R. Anderson, D.V. Martello, P.C. Rohar, B.R. Strazisar, J.P. Tamilia, K. Waldner, C.M. White, W.K. Modey, N.F. Mangelson and D.J. Eatough, "Sources and Composition of PM2.5 at the National Energy Technology laboratory in Pittsburgh During July and August 2000," *Energy & Fuels*, **16**, 261-269 (2002).

R.W. Long, R. Smith, S. Smith, N.L. Eatough, N.F. Mangelson, D.J. Eatough, A.C. Pope III, and W.E. Wilson, "Sources of Fine Particulate Material Along the Wasatch Front," *Energy & Fuels*, **16**, 282-293 (2002).

R.A. Bartsch, P. Kuz, N.K. Dalley, and X. Kou, "A Novel Cyclophane-anthracene Complex," *Tetrahedron Lett.* **43**, 5017-5019 (2002).

C.J. Downes, A. Carpenter, L.D. Hansen, and R.E. Lill, "Microcalorimetric and Mass Spectrometric Methods for Determining the Effects of Controlled Atmospheres on Insect Metabolism," *Thermochimica Acta*, **397**, 19-29 (2003).

E.W. Seely, J.A. Carroll, T.L. Goodfriend, A.F. Tao, and S.W. Graves, "Digitalis-like Factor Response to Hyperinsulinemia in Human Pregnancy, A Model of Insulin Resistance," *J. Human Hypertension*, **16**, 851-856 (2002).

T.L. Neiderhauser, D.H. Scoville, and J.D. Lamb, "Surface Area Determination of a Polystyrene-divinylbenzene Chromatographic Packing Material via Ionic Amphilphile Adsorption from Aqueous Mobile Phases and Application of Gouy-Chapman Theory," *J. Chromatography A*, **982**, 49-54 (2002).

M.J. Robins, J.S. Wilson, D. Madej, D.L.J. Tyrrell, W.P. Gati, R.J. Lindmark and S.F. Wnuk, "Nucleic Acid Related Compounds. 114. Synthesis of 2,6-(disubstituted)purine 2',3'-dideoxynucleosides and Selected Cytotoxic, Anti-Hepatitis B, and Adenosine Deaminase Substrate Activities," *J. Heterocyclic Chem.,* **38**, 1297-1306 (2002).

P. Francom, Z. Janeba, S. Shibuya, and M.J. Robins, "Nucleic Acid Related Compounds. 116. nonaqueous Diazotization of Aminopurine Nucleosides. Mechanistic Considerations and Efficient Procedures with *tert*-Butyl Nitrite or Sodium Nitrite," *J. Org. Chem.*, **67**(19), 6788-6796 (2002).

S.F. Wnuk, S.F. Chowdhury, P.I. Garcia, Jr., and M.J. Robins, "Stereodefined Synthesis of O3'-Labeled Uracil Nucleosides. 3'[^{17}O]-2'-Azido-2'-deoxyuridine 5'-Diphosphate as a Probe for the Mechanism of Inactivation of Ribonucleotide Reductases," *J. Org. Chem.*, **67**(6), 1816-1819 (2002).

R.W. Miles, L.P.C. Nielsen, G.J. Ewing, D. Yin, R.T. Borchardt, and M.J. Robins, "*S*-Homoadenosyl-L-cysteine and *S*-Homoadenosyl-L-homocysteine. Synthesis and Binding Studies of Non-Hydrolyzed Substrate Analogues with *S*-Adenosyl-L-homocysteine Hydrolase," *J. Org. Chem.*, **67**(23) 8258-8260 (2002).

S.F. Wnuk, D.R. Companioni, V. Neschadimenko and M.J. Robins, "The $-Fluorine Effect. Electronic Versus Steric Effects in Radical Deoxygenations of Fluorine-Containing Pentofuranose Nucleosides," *J. Org. Chem.*, **67**(25) 8794-8797 (2002).

P.B. Savage, C. Li, U. Taotafa, B. Ding, and Q. Guan, "MiniReview - Antibacterial Properties of Cationic Steroid Antibiotics," *FEMS Microbiology Lett.*, **217**, 1-7 (2002).

J. Majzlan, A. Navrotsky, B.F. Woodfield, B.E. Lang, J. Boerio-Goates, and R.A. Fisher, "Phonon, Spin-Wave, and Defect Contributions to the Low-Temperature Specific heat of "-FeOOH," *J. Low Temperature Physics*, **130**(112), 69-76 (2003).

Department of Geology

R. A. Harris, T. Moore, K. Wirth, C. Mull, and J. McBride, "Comment on rooted Brooks Range ophiolite," *Geology,* **31**(1), 91- 92, (2003).

R. A. Harris, A. Luthi, A. L. Mayo, and W. Koontz, "Structural controls of hydrodynamic anisotropy in the West Elk Mine Region, western Colorado," *Environmental and Engineering Geoscience*, **8**, 93-102, (2002).

Department of Physics and Astronomy

S. Q. Wang, W. E. Evenson, and J. R. Schrieffer, "Theory of Itinerant Ferromagnets Exhibiting Localized-Moment Behavior Above the Curie Point," *Selected Papers of J. Robert Schrieffer*, N. E. Bonesteel and L. P. Gor'kov, eds. pp. 380-383 (2002) [Reprint from Phys. Rev. Lett. **23**:92 (1969)].

W. E. Evenson, S. Q. Wang, and J. R. Schrieffer, "Theory of Itinerant Ferromagnets with Localized-Moment Characteristics: Two-Center Coupling in the Functional-Integral Scheme," *Selected Papers of J. Robert Schrieffer*, N. E. Bonesteel and L. P. Gor'kov, eds. pp. 384-386 (2002) [Reprint from Phys. Rev. B **2**:2604 (1970)].

W. E. Evenson, J. R. Schrieffer, and S. Q. Wang, "New Approach to the Theory of Itinerant Ferromagnets with Local-Moment Characteristics," *Selected Papers of J. Robert Schrieffer*, N. E. Bonesteel and L. P. Gor'kov, eds. pp. 387-392 (2002) [Reprint from Journal of Applied Physics **41**:1199 (1970)].

J. B. Madsen, L. A. Hancock, S. L. Voronov, and J. Peatross, "High-Order Harmonic Generation in Crossed Laser Beams," J. Opt. Soc. Am. B 20, 166-170 (2003).

B.J. Campbell, S.K. Sinha, R. Osborn, S. Rosenkranz, J.F. Mitchell, D.N. Argyriou, L. Vasiliu-Doloc, O.H. Seeck, and J.W. Lynn, "Polaronic orbital polarization in a layered colossal magnetoresistive manganite", Phys. Rev. B 67, 020409 (2003).