

SGE Student Research

Poster Session at 2003 GSA Meeting

As always, the papers for the SGE Poster Session were excellent. Congratulations to all of the students who participated. The following students were selected to be recipients of the two annual awards that SGE presents -

The Austin Sartin Award Recipient: Brandi Boyd of Central Michigan University, along with **Mona-Liza Sirbescu** and **David J. Matty**, for the paper *CRYSTALLIZATION TEMPERATURES OF THE TIN MOUNTAIN PEGMATITE, BLACK HILLS, SOUTH DAKOTA: INSIGHTS FROM COMPOSITIONS OF COEXISTING FELDSPARS*

The National Council Award Recipient: Deric R. Learman of Central Michigan University, along with **Jane M. Matty**, for the paper *RIVER SEDIMENTS CONFIRM LOCATION OF CONTAMINATED GROUNDWATER DISCHARGE*

The judges at this years poster paper session also awarded an honorable mention award (of \$50) to the group led by **Nathan R. Suurmeyer** (Gustavus Adolphus College), which included **Elizabeth Howell** (Georgia College and State University), **Ryan D. Powell** (Berry College), **Angie M. Smith** (Georgia Perimeter College), **John R. Anderson** (Georgia Perimeter College), **Cheryl G. Young** (Georgia Perimeter College) and **W. Crawford Elliott** (Georgia State University) for their paper *MICROFACIES CORRELATION OF THE UPPER EOCENE SANDERSVILLE LIMESTONE MEMBER OF THE TOBACCO ROAD SAND TO THE OCMULGEE FORMATION ON THE COASTAL PLAIN OF GEORGIA*

Below is a complete list of participants and their papers.

USING AN INDICATOR STUDY TO MONITOR THE HEALTH OF AN URBAN WATERSHED: VAUGHN, Stephen L., FOLEY, Collette A., and MCKENNEY, Rose, Environmental Studies Program/Geosciences, Pacific Lutheran Univ, Tacoma, WA 98447, vaughnsl@plu.edu

TEXTURAL CLUES AND MICROBIAL PROCESSES IN ASSOCIATION WITH PRECIPITATION OF SILICEOUS SINTER: CASTLE GEYSER, YELLOWSTONE NATIONAL PARK: THOMPSON, Denise A., Geosciences, Pacific Lutheran Univ, 121 St S, Tacoma, WA 98447, Datintac@aol.com.

ORIGIN OF CALCAREOUS SEDIMENTS IN THE PIGEON CREEK TIDAL LAGOON AND TIDAL DELTA, SAN SALVADOR ISLAND, BAHAMAS: WELLE, Beth A.¹, HIRSCH, Aaron C.¹, JOHNSON, Aaron C.², HUNT, Gary J.², EVES, Robert L.², and DAVIS, Larry E.¹, (1) Geology, College of St. Benedict/St. John's Univ, Collegeville, MN

56321, bawelle@csbsju.edu, (2) Geology, Southern Utah Univ, Cedar City, UT 84720

STRATIGRAPHIC POSITION OF A CERATOPSID DINOSAUR SITE IN THE UPPER CRETACEOUS KAIPAROWITS FORMATION, GRAND STAIRCASE-ESCALANTE NATIONAL MONUMENT, UTAH: IMPLICATIONS FOR AGE OF THE KAIPAROWITS LOCAL FAUNA: **HIRSCH, Aaron C.**¹, WELLE, Beth A.¹, DAVIS, Larry E.¹, and TITUS, Alan L.², (1) Geology, College of St. Benedict/St. John's Univ, Collegetown, MN 56321, achirsch@csbsju.edu, (2) Grand Staircase–Escalante National Monument, Bureau of Land Management, Kanab, UT 84741-3244

STRATIGRAPHIC EVALUATION OF THE ALLUVIAL DEPOSITS AT LAWRENCE LIVERMORE NATIONAL LABORATORY, LIVERMORE, CALIFORNIA, U.S.A: **AUER, Sara Lynn**¹, DANKENBRING, Kent Allan¹, MIKESELL, Leslie Renee¹, and WEISSMANN, Gary Stephen², (1) Geological Sciences, Michigan State Univ, 206 Natural Sciences, Michigan State University, East Lansing, MI 48824, auersara@msu.edu, (2) Department of Geological Sciences, Michigan State Univ, 206 Natural Science Building, East Lansing, MI 48824

DEPTH TRENDS IN ENCRUSTING COMMUNITIES ON MOLLUSK SHELLS FROM 15M TO 275M: **BOORE, Stacy**, Geology, Oberlin College, 52 W. Lorain St, Oberlin, OH 44074, stacy.boore@oberlin.edu and PARSONS-HUBBARD, Karla, Geology Dept, Oberlin College, Oberlin, OH 44074

CORAL MORPHOLOGY AS AN INDICATOR OF SEDIMENTATION RATE: CAÑADA HONDA, DOMINICAN REPUBLIC: **DAVIS, Alicia M.** and HUBBARD, Dennis K., Dept. of Geology, Oberlin College, 52 West Lorain St, Oberlin, OH 44074, allicia.davis@oberlin.edu

COMPILATION OF A DIGITAL GEOLOGIC MAP AND SPATIAL DATABASE FOR NEWBERRY VOLCANO, CENTRAL OREGON: A FRAMEWORK FOR COMPARATIVE ANALYSIS: **GILES, D.E.L.**, TAYLOR, S.B., and TEMPLETON, J.H., Dept. of Earth and Physical Sciences, Western Oregon University, Monmouth, OR 97361, dgiles@wou.edu

GEOCHEMISTRY GEOBAROMETRY AND TECTONIC SIGNIFICANCE OF A LATE OTTAWAN GRANITE BODY: NORTHWEST ADIRONDACK MOUNTAINS, NEW YORK STATE: **LAMARK, Melissa**, VALDER, Joshua, DEPOALA, Stephanie, and JOHNSON, Eric, Geology and Environmental Science, Hartwick College, Oneonta, NY 13820, LaMarkM@Hartwick.edu

EPIFAUNAL INTERACTIONS AND SETTLEMENT PATTERNS ACROSS A DEPTH GRADIENT OVER SIX YEARS: **KIRRANE, John J.**, Geology, Oberlin College, 52 W. Lorain St, Oberlin, OH 44074, john.kirrane@oberlin.edu and PARSONS-HUBBARD,

Karla M., Geology, Oberlin College, Oberlin, OH 44074

MOLLUSKAN ZONATION IN A HOLOCENE REEF - CAÑADA HONDA, DOMINICAN REPUBLIC: **LAWSON, Gregory R.** and HUBBARD, Dennis K., Dept. of Geology, Oberlin College, 52 West Lorain St, Oberlin, OH 44074, glawson@oberlin.edu

GEOCHEMICAL AND TECTONIC ATTRIBUTES FOR MELTING OF SUBDUCTED OCEANIC LITHOSPHERE, MT. HOOD VOLCANO, OREGON: **CROMBIE, Scott¹**, BAXTER, Jennifer¹, BUCHANAN, Beverly², COSKY, Brian¹, and CRIBB, Warner¹, (1) Geosciences, Middle Tennessee State Univ, PO Box 9, Murfreesboro, TN 37132, sac2a@mtsu.edu, (2) Geosciences, Middle Tenn St Univ, PO Box 9, Murfreesboro, TN 37128

MAGNETIC SUSCEPTIBILITY AND SOIL POLLUTION IN EL PASO, TEXAS: **MONTOYA, A.**, CASAREZ, E., and DEVANEY, K., El Paso Community College, P. O. Box 20500, El Paso, TX 79998, indore88@netscape.net

CRYSTAL SIZE DISTRIBUTION EVIDENCE FOR MAGMA RECHARGE AT STROMBOLI VOLCANO: **MATTOS, Seth T.¹**, BOHRSON, Wendy A.¹, SALISBURY, Morgan J.¹, RINGDAHL STEIN, Malin², and PEASE, Victoria L.², (1) Geological Sciences, Central Washington Univ, 400 East 8th Ave, Ellensburg, WA 98926, mattoss@cwu.edu, (2) Dept. of Geology and Geochemistry, Stockholm Univ, S-106 91, Stockholm, Sweden

METER SCALE VARIABILITY OF SOIL PROPERTIES IN A LAKE ONTARIO COASTAL WETLAND: **HANSELMAN, Duane P. Jr** and NOLL, Mark R., Department of Earth Sciences, SUNY College at Brockport, 350 New Campus Dr, Brockport, NY 14420, opie51@hotmail.com

REASSESSMENT OF WETLAND SOIL QUALITY USING SPATIAL VARIABILITY FACTORS: **BUCKWALTER, Martha Joy** and NOLL, Mark R., Department of Earth Sciences, SUNY College at Brockport, 350 New Campus Dr, Brockport, NY 14420, mbuc0311@brockport.edu

RAPID DETERMINATION OF EXCHANGEABLE CATIONS USING AN ACCELERATED SOLVENT EXTRACTION PROCEDURE: **RADUNS, Nathan R.** and NOLL, Mark R., Department of Earth Sciences, SUNY College at Brockport, 350 New Campus Dr, Brockport, NY 14420, nrrpolaris@yahoo.com

GEOLOGICAL CONTEXT OF PEAT DEPOSITION IN CUMBEBIN SWAMP, NORTHEASTERN NEW SOUTH WALES: A GEOLOGICAL FRAMEWORK FOR CARBON SEQUESTRATION STUDIES: **TREAGUE, Jeremy J.**, Department of Geology, Univ of Wisconsin - Eau Claire, 105 Garfield Ave, Eau Claire, WI 54702-4004, treagujj@uwec.edu

and ABBOTT, Steve, Environmental Science and Management, Southern Cross Univ, P.O. Box 157, Lismore, 2480, Australia

TRACKING ICE FLOW VELOCITY AT DEPTH BY MONITORING METALLIC TARGETS USING GROUND PENETRATING RADAR: **STURTEVANT, Kristin A.**, Geology, Univ at Buffalo (SUNY), 876 Natural Sciences Complex, Buffalo, NY 14068-3050, ks58@acsu.buffalo.edu, **BAKER, Gregory S.**, Department of Geology, Univ at Buffalo, 876 Natural Sciences Complex, Buffalo, NY 14068-3050, **EVENSON, Edward B.**, Department of Earth and Environmental Sciences, Lehigh Univ, Bethlehem, PA 18015, **LARSON, Grahame J.**, Department of Geological Sciences, Michigan State Univ, East Lansing, MI 48824, and **LAWSON, Daniel E.**, Cold Regions Rsch and Engineering Lab, 72 Lyme Road, Hanover, NH 03755

RIVER SEDIMENTS CONFIRM LOCATION OF CONTAMINATED GROUNDWATER DISCHARGE: **LEARMAN, Deric R.** and **MATTY, Jane M.**, Geology, Central Michigan Univ, 314 Brooks, Mt. Pleasant, MI 48859, dlearnan@vt.edu

HYDROTHERMAL ALTERATION AND NON-ERUPTIVE HAZARDS AT SOUTH SISTER VOLCANO, OREGON, USING IMAGING SPECTROMETRY AND DIGITAL ELEVATION DATA: **O'KELLY, Ashley E.** and **NUSBAUM, Robert L.**, Geology and Environmental Geosciences, College of Charleston, Charleston, SC 29424, aeokelly@edisto.cofc.edu

RADIOCARBON DATING OF PALEOSOLS TO CONSTRAIN TIMING OF HOLOCENE LAND SURFACES, BADLANDS NATIONAL PARK, SD: **JAHN, Michael**, **VAN DYNE, Ashley**, **BURKHART, Patrick A.**, **LIVINGSTON, Jack**, **HEFFRON, Erin**, **BRIDGE, Justin**, **MAHER, Marie**, and **WILLIAMSON, Brian**, Geography, Geology and the Environment, Slippery Rock Univeristy, 107 SWC, Slippery Rock, PA 16057, majah10@sru.edu

RECONSTRUCTION OF HOLOCENE PALEOFAN SURFACES, WHITE RIVER BADLANDS, BADLANDS NATIONAL PARK, SD: **HEFFRON, Erin**, **LIVINGSTON, Jack**, **BURKHART, Patrick**, and **MAYNARD, Kate**, Geography, Geology and the Environment, Slippery Rock Univeristy, 107 SWC, Slippery Rock, PA 16057, EXH9112@sru.edu

MICROTOPOGRAPHIC ISOTOPE VARIATIONS IN A MODERN VERTISOL: IMPLICATIONS FOR PALEOCLIMATE STUDIES: **CAVENDISH, T.A.**, **MORA, C.I.**, and **LI, Z.**, Dept. of Earth and Planetary Sciences, Univ of Tennessee, Knoxville, TN 37996, tcavendi@utk.edu

MID-HOLOCENE CLIMATE RECONSTRUCTION IN THE SOLEDAD BASIN USING PLANKTIC FORAM ASSEMBLAGES: **WILSBACHER, Matthew C.**¹, **ORTIZ, Joseph**¹, **O'CONNELL, Suzanne**², **ZHENG, Yan**³, **MARCHITTO, Tom**⁴, **CARRIQUIRY, Jose**⁵, **DEAN, Walter**⁶, and **VAN GEEN, Alexander**⁷, (1) Dept. of Geology, Kent State University,

Kent, OH 44242, mwilsbac@kent.edu, (2) E&ES, Wesleyan Univ, 265 Church St, Middletown, CT 06459, (3) School of Earth and Environmental Sciences, Queens College, C.U.N.Y., 65-30 Kissena Blvd, Flushing, NY 11365, (4) Lamont-Doherty Earth Observatory, Palisades, NY 10964, (5) Instituto de Investigaciones Oceanologicas, Universidad Autonoma de Baja California, Ensenada, Mexico, (6) USGS, Earth Surface Processes, Denver, CO 80225, (7) LDEO, Palisades, NY 10964

MICROFACIES CORRELATION OF THE UPPER EOCENE SANDERSVILLE LIMESTONE MEMBER OF THE TOBACCO ROAD SAND TO THE OCMULGEE FORMATION ON THE COASTAL PLAIN OF GEORGIA: **SUURMEYER, Nathan R.**¹, HOWELL, Elizabeth², POWELL, Ryan D.³, SMITH, Angie M.⁴, ANDERSON, John R.⁴, YOUNG, Cheryl G.⁵, and ELLIOTT, W. Crawford⁶, (1) Geology, Gustavus Adolphus College, St. Peter, MN 56082, nsuurmey@gac.edu, (2) Department of Biological & Environmental Sciences, Georgia College and State Univ, Campus Box 81, Milledgeville, GA 31061, (3) Department of Physics, Astronomy & Geology, Berry College, P.O. Box 5036, Mount Berry, GA 30149, (4) Science, Georgia Perimeter College, 2101 Womack Road, Dunwoody, GA 30338, (5) Science, Georgia Perimeter College, 2101 Womack Rd, Dunwoody, GA 30338, (6) Department of Geology, Georgia State Univ, Atlanta, GA 30303

GLAUCONITE, FRACTURED GRAINS, AND HEMATITE: SHALLOW-BURIAL DIAGENESIS IN MISSISSIPPI: **CULPEPPER, Jonathan D.**¹, PAUL, Kerry A.¹, ANTIA, Jonathan¹, LYNCH, F. Leo¹, and SCHMITZ, Darrel W.², (1) Department of Geosciences, Mississippi State Univ, Mississippi State, MS 39762, jdc254@msstate.edu, (2) Geosciences, Mississippi State Univ, Starkville, MS

CRYSTALLIZATION TEMPERATURES OF THE TIN MOUNTAIN PEGMATITE, BLACK HILLS, SOUTH DAKOTA: INSIGHTS FROM COMPOSITIONS OF COEXISTING FELDSPARS: **BOYD, Brandi**, SIRBESCU, Mona-Liza, and MATTY, David J., Dept. of Geology, Central Michigan Univ, Mt. Pleasant, MI 48859, Brandi_boyd@hotmail.com