

SGE Student Research

Poster Session at 2002 GSA Meeting

Congratulations to all of the students for their excellent papers. The following students were selected to be recipients of the two annual awards that SGE provides for this GSA poster session.

The Austin Sartin Award Recipient: Monica M Turner of the Gamma Beta Chapter of Wichita State University, for her paper on *Micro-Variability of Floodplain Paleosols in the Snyderville Shale Member, Oread Limestone Formation (Upper Pennsylvanian), Southeast Kansas*, with co-authors Wan Yang and Michael Bruemmer.

The National Council Award Recipient: Jeremiah T. Morse of the Gamma Kappa Chapter of Albion College, for his paper on *Developing a Management Plan for a Small, Rural Watershed in South-Central Michigan through monitoring of Stream Flow, Turbidity and Temperature*, with co-authors Steve M. Anderson, and Thomas L. Wilch.

The complete list of participants and papers is provided here.

DEVELOPING A MANAGEMENT PLAN FOR A SMALL, RURAL WATERSHED IN SOUTH-CENTRAL MICHIGAN THROUGH MONITORING OF STREAM FLOW, TURBIDITY, AND TEMPERATURE: MORSE, Jeremiah T., ANDERSON, Steve M., and WILCH, Thomas I., Geological Sciences, Albion College, Albion, MI 49224, jtm10@albion.edu

LINEAR TRACINGS USED TO DETERMINE SUBSURFACE STRUCTURES IN ORDOVICIAN FLYSCH II: WHITAKER, Laura R., Earth and Environmental Sciences, Graduate School, City Univ of New York, 365 Fifth Avenue, New York, NY 100016, Lrwlal@AOL.com and FRIEDMAN, Gerald M., Department of Geology, Brooklyn College of the City Univ of New York (CUNY), Brooklyn, NY, and Northeastern Science Foundation affiliated with Brooklyn College of the City University of New York, 15 Third St., P.O. Box 746, Troy, NY 12181

EFFECTS OF DUAL POROSITY ON THE HYDRAULIC PROPERTIES OF THE BEDROCK SANDSTONE FORMATIONS IN NORTHEASTERN OHIO: ASIM, Muhammad, DOKTER, Carl, NITZSCHE, Chris, WINEGAR, Ann, and ECKSTEIN, Yoram, Geology, Kent State Univ, McGilvrey Hall, Kent, OH 44242, masim@kent.edu

ARSENIC OCCURRENCE IN THE CENTRAL OKLAHOMA AQUIFER, OKLAHOMA, USA: SOKOLIC, Kathy and DEWERS, Thomas, School of Geology and Geophysics, Univ of Oklahoma, 100 E. Boyd Street, Suite 810, Norman, OK 73019, ksokolic@ou.edu

FOURTH ORDER PARASEQUENCES OF THE MOLEEN FORMATION, ELY LIMESTONE, ELKO, NEVADA: TITCZE, Jennifer M., SNYDER, Walter S., and DAVYDOV,

Vladimir I., Department of Geosciences, Boise State Univ, 1910 University Drive, Boise, ID 83725, jmtitcze@hotmail.com

KINEMATIC HISTORY OF THE SOUTHERN TERMINATION OF THE LARAMIDE OROGEN, SOUTHERN NEW MEXICO AND WEST TEXAS: MOSLEY, Tamara, FOSTER, Ethan, and ANDRONICOS, Chris L., Department of Geological Sciences, Univ of Texas at El Paso, 500 W. University Ave, El Paso, TX 79968, mpicker1@elp.rr.com

PROVENANCE AND CORRELATION OF VOLCANICLASTIC MATERIAL FROM THE BRANSFIELD BASIN, ANTARCTICA: PRELIMINARY RESULTS: WILMOT, Melissa S.¹, MATTY, David J.¹, and SINGER, Jill K.², (1) Department of Geology, Central Michigan Univ, 314 Brooks Hall, Mount Pleasant, MI 48859, wilmo1ms@cmich.edu, (2) SUNY - College at Buffalo, 1300 Elmwood Ave, Buffalo, NY 14222-1095

MICRO-VARIABILITY OF FLOODPLAIN PALEOSOLS IN THE SNYDERVILLE SHALE MEMBER, OREAD LIMESTONE FORMATION (UPPER PENNSYLVANIAN), SOUTHEAST KANSAS: TURNER, Monica M., YANG, Wan, and BRUEMMER, Michael, Department of Geology, Wichita State Univ, 1845 Fairmount, Wichita, KS 67260, monica@mailks.com

DOC AND NUTRIENT EXPORT FROM A SMALL OHIO WATERSHED DURING STORM EVENTS: HAUGHT, Samantha, Environmental Science Graduate Program, The Ohio State Univ, 275 Mendenhall Lab, 125 S Oval Mall, Columbus, OH 43210-1398, haught.22@osu.edu and CAREY, Anne E., Department of Geological Sciences, The Ohio State Univ, 275 Mendenhall Laboratory, 125 South Oval Mall, Columbus, OH 43210

STRATIGRAPHIC CORRELATION OF PALEOSOLS TO REFINE THE CLASSIFICATIONS OF SOD TABLES, BADLANDS NATIONAL PARK, SOUTH DAKOTA: ERNEY, Bradley Micheal¹, BURKHART, Patrick², LIVINGSTON, Jack², HEFFRON, Erin², VANDYNE, Ashley², ANDERSON, Melia³, JAHN, Mike⁴, BOYER, Amy³, and SHULER, Laura², (1) Geology Geography and the Environment, Slippery Rock Univ, 107 Spotts World Culture, Slippery Rock, PA 16057, bradlikesblue@hotmail.com, (2) Slippery Rock Univ, Slippery Rock, PA, (3) Slippery Rock University, Slippery Rock, PA 16057, (4) Slippery Rock Univ, Slippery Rock, PA 16057

MINERALOGY OF THE QUESTA MOLYBDENITE DEPOSIT, TAOS COUNTY, NEW MEXICO: BREESE, Michael R., New Mexico Institute of Mining and Technology, 801 Leroy Place, Socorro, NM 87801, mrb@nmt.edu, MCLEMORE, Virginia T., New Mexico Bureau of Geology and Mineral Resources, New Mexico Institute of Mining and Technology, 801 Leroy Pl, Socorro, NM 87801, and WALKER, Bruce M., Molycorp Inc, P.O. Box 469, Questa, NM 87556

NORTH AMERICAN OCCURRENCES OF THE LOWER PERMIAN AMMONOID URALOCERAS: HEMMESCH, Nikki T.¹, SCHIAPPA, Tamra A.², and SPINOSA, Claude¹, (1) Department of Geosciences, Boise State Univ, 1910 University Drive, Boise, ID 83725,

nthemmesch@hotmail.com, (2) Geography, Geology, and the Environment, Slippery Rock Univ of Pennsylvania, Slippery Rock, PA 16057

GEOLOGY OF THE CHICAGO PASS AREA, CA-NV: IMPLICATIONS FOR REGIONAL TECTONICS: PRIMM, Skylar L., PAVLIS, Terry, GUARISCO, Peter D., REIN, Pamela E., and RUTKOFKSKE, James E., Department of Geology and Geophysics, Univ of New Orleans, 2000 Lakeshore Dr, New Orleans, LA 70148, skylarp@mac.com

SECONDARY FAULTS AND SLIP SENSE ALONG THE FRENCHMAN MOUNTAIN FAULT, SOUTHERN NEVADA: GRADY, Jesse and TAYLOR, Wanda J., Geoscience, Univ of Nevada Las Vegas, 4505 Maryland Parkway, Las Vegas, NV 89154-4010, gradyguitar@yahoo.com

RARE-EARTH ELEMENT SYSTEMATICS OF WEBSTER-ADDIE/WILLITS/BALSAM GAP MAFIC AND ULTRAMAFIC ROCKS: SORARUF, Rachel, Earth and Environment, Mt. Holyoke College, Clapp 320, South Hadley, MA 01075-6419, georach02@yahoo.com and RYAN, Jeffrey G., Geology, Univ of South Florida, SCA 528, 4202 East Fowler Ave, Tampa, FL 33620

USING GIS TO ASSESS CLIMATIC AND TOPOGRAPHIC CONTROLS ON PERENNIAL SNOW IN THE SPRING MOUNTAINS, NEVADA: DYER, Kuwana and ORNDORFF, Richard, Department of Geoscience, Univ of Nevada, Las Vegas, 4505 South Maryland Parkway, PO Box 4010, Las Vegas, NV 89119, geologist2003@aol.com

GROUNDWATER FLUX AS A NON-POINT SOURCE OF POLLUTION TO THE PINE RIVER NEAR ALMA, MICHIGAN: LEARMAN, Deric R., MATTY, Jane M., and LOVAN, Norman A., Geology, Central Michigan Univ, 314 Brooks, Mt. Pleasant, MI 48859, drlearman@hotmail.com

LIMESTONES FROM GUAM: A PREDICTABLE PATTERN OF DIAGENESIS?: REALE, Toni¹, CAREW, James L.¹, THOMAS, Charity¹, DUMARS, Anton¹, and SIEGRIST, Galt², (1) Geology and Environmental Geosciences, College of Charleston, Charleston, SC 29424, realea@cofc.edu, (2) WERI, Univ of Guam, Guam

EXPERIMENTAL RESULTS OF ENERGY AND SOIL-MOISTURE EFFECTS ON NONLINEAR DEFORMATION ASSOCIATED WITH NEAR-SURFACE SEISMIC REFLECTION SOURCES: MALINOWSKI, Matthew S., Department of Geology, Univ at Buffalo, 876 Natural Sciences Complex, Buffalo, NY 14260, msm9@acsu.buffalo.edu and BAKER, Gregory S., Department of Geology, Univ at Buffalo, 876 Natural Sciences Complex, Buffalo, NY 14260-3050

SPELEOTHEMS FROM AN ABANDONED GOLD MINE, SAN BERNARDINO MOUNTAINS, CALIFORNIA: VAN DER ELST, Nicholas J. and WOODS, Adam D., Department of Physical Sciences, Santa Ana College, 1530 West 17th St, Santa Ana, CA 92706, nickvan@uclink.berkeley.edu

CANID AND RODENT SCAVENGING ON PLEISTOCENE CAVE BEAR: LEHANE, James R. and OVER, D. Jeffrey, Geological Sciences, SUNY-Geneseo, Geneseo, NY 14454, jrl3@geneseo.edu

SPATIAL AND TEMPORAL ANALYSES OF WATER QUALITY IN SUBCATCHMENTS OF IRONDEQUOIT CREEK USING GIS: WACHTMAN, Jeremy L., NOLL, Mark R., and ZOLLWEG, James A., Department of Earth Sciences, SUNY College at Brockport, 350 New Campus Dr, Brockport, NY 14420, jwac0105@brockport.edu

MAGNETITE DISSOLUTION RATES IN ACIDIC SOLUTIONS: GRUENDLE, Kristen V. and NOLL, Mark R., State Univ of New York College at Brockport, 350 New Campus Drive, Brockport, NY 14420, Tinkb66@aol.com

INCREASING STUDENT INVOLVEMENT IN LARGE LECTURE CLASSES: MAKING GEOSCIENCE INTERESTING AND RELEVANT: BUTLER, Eric M., Geology, Univ of Vermont, 001 Perkins, University of Vermont, Burlington, VT 05405, ebutler@zoo.uvm.edu and BIERMAN, Paul, Geology, Univ of Vermont, Perkins Hall, Rm. 001, Burlington, VT 05405

GEOLOGY, AQUIFER SENSITIVITY AND PROXIMITY ANALYSIS OF POSSIBLE CONTAMINATION SITES OF THE OTTAWA 7.5' QUADRANGLE, LASALLE COUNTY, ILLINOIS: HART, Kara¹, BUDIKOVA, Dagmar¹, MALONE, David¹, and STIFF, Barbara J.², (1) Geography-Geology, Illinois State Univ, Normal, IL 61761-4400, klhart@ilstu.edu, (2) Illinois State Geol Survey, 615 East Peabody Drive, Champaign, IL 61820

EFFECTS OF SEA-LEVEL CHANGES ON DELTA FORMATION: A SMALL-SCALE PHYSICAL MODEL APPROACH: HEPLER, Christopher W., HILLS, W. Beckett, MARTIN, Valerie E., and POOLE, Matthew T., Department of Geological Sciences, Clemson Univ, Clemson, SC 29634-0919, heplerc@clemson.edu

EARTHQUAKES CONFIRM BOOKSHELF FAULTING AT LARGE NON-TRANSFORM RIDGE OFFSETS: HOLMES, Adrian A.J. and WETZEL, Laura Reiser, Marine Science, Eckerd College, 4200 54th Ave S, St. Petersburg, FL 33711, holmesaa@eckerd.edu

INTEGRATION OF GEOLOGICAL AND GEOPHYSICAL DATA FOR CHARACTERIZATION OF SUBSURFACE HETEROGENEITY IN THE MIOCENE TEMBLOR FORMATION, COALINGA AREA, CALIFORNIA: POOLE, Matthew T. and MIZE, Kristine L., Department of Geological Sciences, Clemson Univ, 340 Brackett Hall, Clemson, SC 29634-0919, mtpoole@clemson.edu

INVESTIGATION OF HYDROXYAPATITE AS A MEANS OF REMOVING DISSOLVED ARSENIC FROM POTABLE WATER: WENDLANDT, Alison E., International Baccalaureate Program, Lakewood High School, 9700 W. 8th Ave, Lakewood, CO 80215, aewendlandt@hotmail.com, HARRISON, Wendy J., Geology and Geological Engineering, Colorado School of Mines, 1500 Illinois St, Golden, CO 80401, and WENDLANDT, Richard F., Dept. of Geology and Geological Engineering, Colorado School of Mines, Golden, CO 80401

POTENTIAL MAGMA FORMATION BY PARTIAL MELTING OF BOTH UPPER MANTLE AND SUBDUCTED LITHOSPHERE AT MT. HOOD VOLCANO, CASCADE RANGE VOLCANIC ARC: CROMBIE, Scott, POWELL, Jason, and CRIBB, Warner, Geosciences, Middle Tennessee State Univ, PO Box 9, Murfreesboro, TN 37132, scocro@aol.com

ANION AND CATION DYNAMICS IN A PARTIALLY DEVELOPED WATERSHED: DUNN, Joshua C., Geology, Alfred Univ, One Saxon Drive, Alfred, NY 14802, dunnjc@alfred.edu, HLUCHY, Michele M., Geology and Environmental Studies, Alfred Univ, One Saxon Drive, Alfred, NY 14802, and MCGOWAN, Garrett J., Chemistry, Alfred Univ, One Saxon Drive, Alfred, NY 14802

SPATIAL VARIATION IN WETLAND SOIL PROPERTIES AS INFLUENCED BY HYDROLOGY AND ELEVATION IN A COASTAL WETLAND OF LAKE ONTARIO: HANSELMAN, Duane P. Jr and NOLL, Mark R., Department of Earth Sciences, SUNY College at Brockport, 350 New Campus Dr, Brockport, NY 14420, mnoll@esc.brockport.edu