

SGE Student Research

Poster Session at 2007 GSA Meeting

Congratulations to:

Lauren Chrapowitzky (*Eta Xi Chapter, St. Lawrence University*) - winner of the Austin A. Sartin Award.

Brent A. Reynolds (*Epsilon Kappa Chapter, Central Michigan University*) and **Lisa C. Degrazia** (*Eta Nu Chapter, James Madison University*) - winners of the National Council Awards.

Below are all of the titles and authors of the papers - a total of 55 papers were presented!

CALCIUM CARBONATE PRECIPITATION WITHIN MISSOURI SPRINGS: CAUSES AND MECHANISMS: **RYBACKI, K.S.**, Geological Sciences and Engineering, Univ. Missouri - Rolla, 129 McNutt Hall, 1870 Miner Circle, Rolla, MO 65409, ksrgr5@umr.edu and **WRONKIEWICZ, D.J.**, Geological Sciences and Engineering, Univ. of Missouri - Rolla, 129 McNutt Hall, 1879 Miner Circle, Rolla, MO 65409

AN INVESTIGATION IN THE FORMATION OF RIMSTONE DAMS: **ALAVI, Seyed Matin** and **HALIHAN, Todd**, School of Geology, Oklahoma State University, 105 Noble Research Center, Stillwater, OK 74078, matin.alavi@okstate.edu

GENDER DIFFERENCES AND RESULTS OF THE GEOSCIENCE CONCEPT INVENTORY ON FIELD BASED PROGRAMS: **KING, Leigha** and **ELKINS, Joe T.**, Geology, Bowling Green State University, Bowling Green, OH 43403, lmking@bgsu.edu

GEOCHEMISTRY AND BIOREMEDIATION OF MINING CONTAMINATED WATER IN THE BLACK WARRIOR COAL BASIN, NORTHERN ALABAMA: **SAVRDA, Amanda M.**¹, **SETTLEMIRE, Chris**¹, **WOLF, Lorraine W.**¹, and **LEE, Ming-Kuo**², (1) Department of Geology and Geography, Auburn University, 210 Petrie Hall, Auburn, AL 36849, savrdam@auburn.edu, (2) Geology and Geography, Auburn University, 210 Petrie Hall, Auburn, AL 36849

REEVALUATING THE SIGNIFICANCE OF BOUNDARIES WITHIN THE RATTLESNAKE MOUNTAIN PLUTON, SAN BERNARDINO MOUNTAINS, CA: **CARTER, Christina A.**, Dept of Earth Sciences, Indiana University~Purdue University, Indianapolis, IN 46202, carterc@iupui.edu, **WOODEN, Joseph L.**, U.S. Geological Survey, 367 Panama Street, Stanford, CA 94305, and **BARTH, Andrew P.**, Dept of Earth Sciences, Indiana Univ~Purdue Univ, Indianapolis, IN 46202

GEO THERMOMETRY OF PELITIC GNEISS IN THE LITTLE SAN BERNARDINO MOUNTAINS, SOUTHERN CALIFORNIA: **ROELL, Jennifer L.**, **BROWN, Kenneth L.**, and **BARTH, Andrew**, Earth Science, Indiana University-Purdue University Indianapolis, Indianapolis, IN 46202, jenlbarn@iupui.edu

A DETERMINATION OF THE ORIGIN OF GRANITIC ROCKS OF THE CAJON PASS SCIENTIFIC DRILL HOLE, SAN BERNARDINO MOUNTAINS, CA: **SEAL, Elizabeth**, Department of Earth Sciences, Indianapolis University-Purdue University Indianapolis, Indianapolis, IN 46202, eseal@iupui.edu and BARTH, Andrew, Earth Science, Indiana University-Purdue University Indianapolis, Indianapolis, IN 46202

PETROLOGY AND GEOCHEMISTRY OF THE JOSHUA FLAT QUARTZ MONZONITE, WHITE-INYO MOUNTAINS, CALIFORNIA: **REYNOLDS, Brent A.**, MATTY, David J., JACKSON, Jennifer L., CHANDONAI, Daniel R., and STUDENT, James J., Department of Geology, Central Michigan University, 314 Brooks Hall, Mount Pleasant, MI 48859, reyno1ba@cmich.edu

PETROLOGY AND GEOCHEMISTRY OF THE EUREKA VALLEY MONZONITE, WHITE-INYO MOUNTAINS, CALIFORNIA: **JACKSON, Jennifer L.**, MATTY, David J., REYNOLDS, Brent A., CHANDONAI, Daniel R., and STUDENT, James J., Department of Geology, Central Michigan University, 314 Brooks Hall, Mount Pleasant, MI 48859, jacks5jl@cmich.edu

GROUNDWATER HYDROLOGY OF LOW-ORDER COASTAL PLAIN STREAMS ACROSS AN URBAN LAND-USE GRADIENT: **DELOATCH, John P.**¹, O'DRISCOLL, Michael A.¹, BRINSON, Mark M.², and HARDISON, Emma C.², (1) Department of Geological Sciences, East Carolina University, 101 Graham Building, Greenville, NC 27858-4353, JPD1115@ecu.edu, (2) Department of Biology, East Carolina University, 408 Howell Bldg, Greenville, NC 27858-4353

RETROGRADE METAMORPHISM OF THE GLENARM WISSAHICKON IN SOUTHEAST PENNSYLVANIA: **MOORE, Maureen N.**, Geology and Astronomy, West Chester University, West Chester, PA 19382, mm602120@wcupa.edu, SROGI, LeeAnn, Department of Geology/Astronomy, West Chester Univ, 750 S Church St, West Chester, PA 19383-0001, BOSBYSELL, Howell, Department of Geology and Astronomy, West Chester Univ, 750 South Church Street, West Chester, PA 19383, and BLACKMER, Gale, DCNR, Bureau of Topographic and Geologic Survey, 3240 Schoolhouse Road, Middletown, PA 17057

SEDIMENT QUALITY OF THE SCHUYLKILL RIVER: A COOPERATIVE USGS, PWD, AND WCU STUDY: **DEGNAN, Michael E. Jr**¹, HELMKE, Martin F.¹, OLSON, Leif E.², and CINOTTO, Peter J.², (1) Department of Geology and Astronomy, West Chester University of Pennsylvania, 207 Boucher Hall, West Chester, PA 19383, mdegnan@usgs.gov, (2) Pennsylvania Water Resources Division, United States Geological Survey, 770 Pennsylvania Drive, Suite 116, Exton, PA 19341

PROVENANCE AND THE EARLY DIAGENETIC ALTERATION OF VOLCANICLASTIC MATERIAL INCORPORATED IN FLUVIAL CHANNEL SANDSTONE DEPOSITS, MORRISON FM. NEAR CAPITOL REEF NATIONAL PARK, UTAH: **DIXON, Alexander H.**, Department of Geology, Baylor University, One Bear Place #97354, Waco, TX 76798-7354, A_Dixon@baylor.edu, DRIESE, Steven, Department of Geology, Baylor Univ, One Bear Place #97354, Waco, TX 76798-7354, and JENNINGS, Debra S., Geology, Baylor University, 1800 S. 8th St., Apt. 123, Waco, TX 76706

EFFECTS OF SURFACE MINING ON STREAM WATER QUALITY IN THE WILLS CREEK WATERSHED, SOUTHEASTERN OHIO: PH, SPECIFIC CONDUCTANCE AND SULFATE TRENDS: **TARBERT, Jason A.** and VAN HORN, Stephen R., Department of Geology, Muskingum College, 163 Stormont Street, New Concord, OH 43762, jtarbert@muskingum.edu

THE USE OF AQUEOUS GEOCHEMISTRY AS AN INDICATOR OF FLOW SYSTEM INTERACTION WITHIN A BEACH-RIDGE COMPLEX OF LAKE HURON: HODGES, Amanda L.¹, **DEGRAZIA, Lisa C.**¹, BAEDKE, Steve J.¹, THOMPSON, Todd A.², and WILCOX, Douglas A.³, (1) Dept. of Geology and Environmental Science, James Madison University, MSC 6903, Harrisonburg, VA 22807, degrazilc@jmu.edu, (2) Indiana Geological Survey, Indiana University, 611 North Walnut Grove, Bloomington, IN 47405, (3) Great Lakes Science Center, U.S. Geol Survey, 1451 Green Road, Ann Arbor, MI 48105

ZIRCON CHRONOLOGY OF THE CHIMNEY MOUNTAIN METASEDIMENTARY SEQUENCE, ADIRONDACK HIGHLANDS: **CHRAPOWITZKY, Lauren**¹, THERN, Eric², VALENTINO, David³, NELSON, David², GEHRELS, George⁴, and CHIARENZELLI, Jeffrey R.⁵, (1) Department of Geology, St. Lawrence University, 149 Brown Hall, Canton, NY 13617, lmchra04@stlawu.edu, (2) Department of Applied Physics, Curtin University of Technology, GPO Box U1987, Perth, 6107, Australia, (3) Department of Earth Sciences, State Univ of New York at Oswego, Oswego, NY 13126, (4) Geosciences, Univ of Arizona, Tucson, AZ 85721, (5) Department of Geology, St. Lawrence University, 147 Brown Hall, Canton, NY 13617

KEEPING CREEPING SOILS ON SHORE: **THEMMES, Lori**, Geosciences, University of Wisconsin-Parkside, Kenosha, WI 53141-2000, themm000@rangers.uwp.edu

PHYTOREMEDIATION OF URBAN SOILS: **WASEM, Samantha**, Geosciences, Univ. Wisconsin-Parkside, 900 Wood Road, Kenosha, WI 53141-2000, wasem001@rangers.uwp.edu

APPLICATION OF GEOLOGIC METHODS TO 21ST CENTURY ARTIFACTS: **POPLAWSKI, Amy**, Geosciences, University of Wisconsin-Parkside, 900 Wood Road, Kenosha, WI 53141-2000, popla004@uwp.edu

CATCH THE RAINBOW: GEOCHEMICAL ANALYSIS OF COLORED SLAG FROM IRONVILLE, ADIRONDACK STATE PARK, NEW YORK: **RIZZA, Irene L.** and FARTHING, Dori J., Geological Sciences, SUNY Geneseo, 1 College Circle, Geneseo, NY 14454, ilr1@geneseo.edu

INVESTIGATION OF PETRO-TECTONIC SETTING(S) OF FELSIC IGNEOUS ROCKS, ST. FRANCOIS MOUNTAINS, MISSOURI: **ANDERSON, Richard**, Geosciences, Middle Tennessee State University, Murfreesboro, TN 37132, rca2g@mtsu.edu and CRIBB, Warner, Geosciences, Middle Tennessee State Univ, PO Box 9, Murfreesboro, TN 37132

A COMPARISON OF THE BASIC OPTICAL DATING PROPERTIES OF TWO NATURAL GYPSUM SAMPLES AS ANALOGS FOR COMPONENT MINERALS IN MARS SURFACE SEDIMENTS: **THORSTAD, Daniel J.**, Natural Resources

Management Program, North Dakota State University, 163 Hultz Hall, Fargo, ND 58105, daniel.thorstad@ndsu.edu and LEPPER, Kenneth, Optical Dating and Dosimetry Lab, North Dakota State University, Department of Geosciences, 218 Stevens Hall, Fargo, ND 58105

POSSIBLE EXISTENCE OF AN UNIDENTIFIED, SEISMOGENIC FAULT ZONE ALONG THE SOUTHERN COAST OF JAMAICA: A COMPILATION OF EARTHQUAKE AND REMOTE SENSING DATA: **KING, Will**¹, BINGHAM, Lisa¹, MANN, Paul¹, DEMETS, Charles², and WIGGINS-GRANDISON, Margaret³, (1) Institute for Geophysics, Jackson School of Geosciences, University of Texas, JJ Pickle Research Campus, Bldg 196 (ROC), 10100 Burnet Rd, R2200, Austin, TX 78758, will@ig.utexas.edu, (2) Department of Geology and Geophysics, University of Wisconsin - Madison, 1215 W Dayton St, Madison, WI 53706, (3) Earthquake Unit, University of West Indies, 2 Plymouth Crescent, Mona Campus, Kingston 7, West Indies, Jamaica

THE STUDY OF RIVERINE MORPHOLOGY IN MULTIPLE TIME SCALES, PELLY RIVER, YUKON TERRITORY, CANADA: **ALLEN, Eric B.**¹, NAVAL, Peter W.², PETERSON, Kristina M.³, MCKENNEY, Rose¹, and RAMAGE, Joan M.⁴, (1) Environmental Studies Program/Geosciences, Pacific Lutheran University, Rieke Science Center, Tacoma, WA 98447, alleneb@plu.edu, (2) Geosciences, Pacific Lutheran University, Rieke Science Center, Tacoma, WA 98447, (3) Geosciences and Chemistry, Pacific Lutheran University, Rieke Science Center, Tacoma, WA 98447, (4) Earth and Environmental Sciences, Lehigh Univ, 31 Williams Hall, Bethlehem, PA 18015

FLUVIAL LANDFORMS OF THE 2006 SUNCOOK RIVER AVULSION, EPSOM, NEW HAMPSHIRE: **DRYER, W. Patrick**, Geography and Anthropology, University of Wisconsin, 105 Garfield Ave, Eau Claire, WI 54701, DRYERWP@uwec.edu, WITTKOP, Chad, Chemistry and Geology, Minnesota State University, Mankato, MN 56001, and FAULKNER, Douglas J., Geography and Anthropology, University of Wisconsin, Eau Claire, WI 54701

THE BATHYMETRY AND SEDIMENT ACCUMULATION HISTORY IN LAKE MAUMELLE, CENTRAL ARKANSAS: **WESTERMAN, Drew Aaron**, Geology, University of Arkansas at Little Rock, 5221 Nelbrook Drive, North Little Rock, AR 72118, Dawesterman@ualr.edu, MCMILLAN, Margaret E., Department of Earth Science, University of Arkansas at Little Rock, 2801 S. University Avenue, Little Rock, AR 72204, and PAYNE, Forrest E., Department of Biology, University of Arkansas at Little Rock, 2801 S. University Avenue, Little Rock, AR 72204

BLACK MANGROVE TRANSPLANTATION FOR SHORELINE STABILIZATION IN THE BAHIA GRANDE WETLAND RESTORATION PROJECT, SOUTH TEXAS: **DEL ANGEL, Diana C.** and HEISE, Elizabeth A., Chemistry and Environmental Sciences, University of Texas at Brownsville, 80 Fort Brown, Brownsville, TX 78526, diana.c.delangel@hotmail.com

CARBON AND OXYGEN ISOTOPE ANALYSIS OF MODERN FRESHWATER MOLLUSK SHELLS: APPLICATIONS FOR CLIMATE RECONSTRUCTION: **ANDREWS, Lauren**¹, BERGMAN, Sarah¹, JIMENEZ, Gloria², TAKESHITA, Yuichiro³, ULBERG, Carl¹, and HAILEAB, Bereket¹, (1) Geology, Carleton College, One North

College Street, Northfield, MN 55057, andrewsl@carleton.edu, (2) Geology, Carleton College, One North College Street, Northfield, 55057, (3) Chemistry, Carleton College, One North College Street, Northfield, MN 55057

LATE HOLOCENE PRECIPITATION RECONSTRUCTED FROM FAYETTEVILLE GREEN LAKE, NY, VARVED SEDIMENTS: **REDDIN, Mike**¹, HUBENY, J. Bradford¹, and KING, John W.², (1) Geological Sciences, Salem State College, 352 Lafayette St, Salem, MA 01970, mreddin@nii.net, (2) Graduate School of Oceanography, Univ of Rhode Island, South Ferry Road, Narragansett, RI 02882

USING FIRST ORDER REVERSAL CURVES (FORC) TO BETTER CHARACTERIZE THE ROCK-MAGNETIC PALEOENVIRONMENTAL RECORD FROM LAKE BOSUMTWI, WEST AFRICA: **MACK, Elizabeth**¹, PECK, John A.¹, KING, John W.², OVERPECK, Jonathan T.³, and SCHOLZ, Christopher A.⁴, (1) Department of Geology and Environmental Science, The University of Akron, Akron, OH 44325-4101, emm28@uakron.edu, (2) Graduate School of Oceanography, University of Rhode Island, South Ferry Road, Narragansett, RI 02882, (3) Institute for the Study of Planet Earth, University of Arizona, Tucson, AZ 85721, (4) Department of Earth Sciences, Syracuse University, 204 Heroy Geology Laboratory, Syracuse, NY 13244

USING GEOGRAPHIC INFORMATION SYSTEMS TO MAP LEAD CONTAMINATION IN SOILS IN JERSEY CITY, NJ: **RAMRUP, Satish**, PASTOR, Raphael, ROSIELLO, Angela, ROBLES, Sadira, KACZKA, Paul, MONTGOMERY, William W., and FREILE, Deborah, Geoscience and Geography, New Jersey City University, 2039 Kennedy Blvd, Jersey City, NJ 07305, Satishramrup@yahoo.com

DISTRIBUTION OF LEAD IN SOILS NEAR THE NEW JERSEY CITY UNIVERSITY CAMPUS: JERSEY CITY, NJ: **ROSIELLO, Angela**, RAMRUP, Satish, PASTOR, Raphael, ROBLES, Sadira, KACZKA, Paul, CRUZ, Samuel, MONTGOMERY, William, and FREILE, Deborah, Geoscience and Geography, New Jersey City University, 2039 Kennedy Blvd, Jersey City, NJ 07305, abrosiello@yahoo.com

DIFFERENTIATION BETWEEN URBAN AND RURAL RUNOFF IN NORTHEAST ARKANSAS USING ORGANOCHLORIDE PESTICIDES: **WHITMORE, Stephanie L.**, Chemistry and Physics, Arkansas State University, State University, Jonesboro, AR 72467, stephanie.whitmore@smail.astate.edu, LESLIE, Deborah, Environmental Sciences Graduate Program, Arkansas State University, State University, AR 72467, PÉREZ TORO, Ángela, Geology, University of Puerto Rico, Mayagüez, PR 00985, LEE, Adrienne, Geosciences, Wellesley College, 21 Wellesley College Road, unit 1803, Wellesley, MA 02481, and DOWLING, Carolyn, Department of Chemistry, Arkansas State University, State University, AR 72467

RESPONSE OF SOIL MOISTURE AND PH TO THE TOPICAL APPLICATION OF POWDERED LIMESTONE: **WINTERS, Yaicha D.**, EAGAN, Denis P., HLUCHY, Michele M., BUCKWALTER-DAVIS, Martha J., MARKKULA, Mari K., and PAIS, Skylar G., Geology and Environmental Studies, Alfred University, 1 Saxon Dr, Alfred, NY 14802, ydw1@alfred.edu

SEDIMENT DISTRIBUTION ANALYSIS USING GIS FOR THE BAHIA GRANDE

WETLAND RESTORATION, SOUTH TEXAS: **ROBERTS, Clinton D.**, AGUILAR, Jose M. Jr, and HEISE, Elizabeth A., Department of Chemistry and Environmental Sciences, University of Texas at Brownsville, 80 Fort Brown, Brownsville, TX 78520, Clinton.Roberts1@utb.edu

SPATIAL DISTRIBUTION OF INVASIVE PLANT SPECIES IN THE LUCKIAMUTE WATERSHED, CENTRAL OREGON COAST RANGE: VEGETATIVE RESPONSE TO GEOMORPHIC PROCESSES AND DISTURBANCE REGIME IN THE RIPARIAN CORRIDOR: **NOLL, Katherine L.**, Earth and Physical Sciences Department, Western Oregon University, 345 Monmouth Ave. N, Monmouth, OR 97361, knoll@wou.edu, TAYLOR, Stephen B., Earth and Physical Science Dept, Western Oregon University, 345 N. Monmouth Ave, Monmouth, OR 97361, DUTTON, Bryan, Biology Department, Western Oregon University, 345 Monmouth Ave. N, Monmouth, OR 97361, and PIROT, Rachel, Dept. of Geology, Portland State University, Portland, OR 97207

THE CONTROL OF BASEFLOW ON STREAM TEMPERATURES IN AN URBANIZED, HIGH-GRADIENT STREAM: **ANDERSON, Joseph L.**¹, ANDERSON, William P. Jr¹, THAXTON, Christopher S.², and BABYAK, Carol M.³, (1) Department of Geology, Appalachian State University, ASU Box 32067, Boone, NC 28608-2067, ja66164@appstate.edu, (2) Department of Physics and Astronomy, Appalachian State University, ASU Box 32106, Boone, NC 28608-2106, (3) Department of Chemistry, Appalachian State University, ASU Box 32036, Boone, NC 28608-2036

WATER QUALITY STUDIES OF A SHALLOW AQUIFER ON ST. CATHERINE'S ISLAND, GEORGIA: **GANNAWAY, Evey**, Department of Forestry and Geology, University of the South, 735 University Avenue, Sewanee, TN 37383, cgannawa@sewanee.edu, KNOLL, Martin A., Department of Forestry and Geology, University of the South, 735 University Ave, Sewanee, TN 37383, and KNOLL, Marion, St. Andrew's-Sewanee School, Sewanee, TN 37375

FINDING CAUSES OF GROUNDWATER FLUCTUATIONS IN QUETTA BASIN, PAKISTAN: **NGUYEN, LienThuy**¹, KHAN, Shuhab¹, and SULTAN, Mohamed², (1) Department of Geosciences, University of Houston, Houston, TX 77204, julia_llng075@yahoo.com, (2) Geosciences, Western Michigan University, 1903 W. Michigan Avenue, 1187 Rood Hall, Kalamazoo, MI 49008

PRELIMINARY EVALUATION OF THE IMPACT OF VISUAL CUES ON STUDENT ANALYSIS OF A GROUNDWATER CONTAMINATION CASE STUDY: **BADER, Mindy R.**, ROMEO, Jamie L., and NOLL, Mark R., Department of the Earth Sciences, SUNY College at Brockport, 350 New Campus Dr, Brockport, NY 14420, mbad0610@brockport.edu

PHOSPHORUS TRANSFORMATIONS FROM FIELD SOILS TO LAKE SEDIMENTS: **SZATKOWSKI, Aimee E.** and NOLL, Mark R., Department of the Earth Sciences, SUNY College at Brockport, 350 New Campus Dr, Brockport, NY 14420, asza1211@brockport.edu

INITIAL CHARACTERIZATION OF THE MICROBIOTA AND THEIR HABITAT: HOT SPRINGS STATE PARK, THERMOPOLIS, WYOMING: **MCCANN, Sage**¹,

SMAGLIK, Suzanne M.¹, MCALLISTER, Steven J.¹, and HARRIS, Jennifer², (1) Math & Science, Central Wyoming College, 2660 Peck Ave, Riverton, WY 82501, kssmccann@mac.com, (2) Microbiology, University of Wyoming, 1000 E. University Ave, Laramie, WY 82071

AN ASSESSMENT AND COMPARISON OF THE GEOCHEMICAL SIGNATURES OF THERMAL SPRINGS IN THE ANIMAS RIVER VALLEY, SOUTHWESTERN COLORADO: **CASEY, Clinton A.**, Geosciences, Fort Lewis College, 1000 Rim Drive, Durango, CO 81301, CACASEY@fortlewis.edu and GONZALES, David A., Department of Geosciences, Fort Lewis College, 1000 Rim Drive, Durango, CO 81301

INFLUENCE OF MINERAL WEATHERING ON STREAM WATER CHEMISTRY OF THE QUEBRADA MAQUINA, RIO GUACIMAL WATERSHED, MONTEVERDE, COSTA RICA: **REYNOLDS, Merilie A.**, Geology, Smith College, Box 7088, 1 Chapin Way, Northampton, MA 01063, meriliereynolds@gmail.com and RHODES, Amy Larson, Department of Geology, Smith College, Northampton, MA 01063

THE FORMATION AND ALTERATION OF TURQUOISE DEPOSITS IN THE AMERICAN SOUTH WEST: **BERGEN, Laura L.**¹, FAYEK, Mostafa², and HULL, Sharon¹, (1) Geological Sciences, University of Manitoba, 240 Wallace Bldg, 125 Dysart Rd, Winnipeg, MB R3T2N2, Canada, laura.bergen@gmail.com, (2) Maxwell Museum of Anthropology, Univ. New Mexico/Univ. Manitoba, 1 University of New Mexico, MSC01 1050, Albuquerque, NM 87131-0001

MINERALOGY OF SAND SAMPLES FROM ARCHEOLOGICAL SITES ALONG THE NILE RIVER, EGYPT, DETERMINED BY X-RAY DIFFRACTION: **SANCHEZ LEON, Eduardo E.**¹, PI I PUIG, Teresa², CARVAJAL-MORENO, Magda³, and CENTENO-GARCIA, Elena², (1) División de Ciencias de la Tierra, Facultad de Ingeniería, Universidad Nacional Autónoma de México, Ciudad Universitaria, México D.F, 04510, Mexico, edu_geo_01@yahoo.com.mx, (2) Instituto de Geología, Universidad Nacional Autónoma de México, Ciudad Universitaria, Mexico D. F, 04510, Mexico, (3) Instituto de Biología, Universidad Nacional Autónoma de México, Ciudad Universitaria, México D.F, 04510, Mexico

TEXTURAL CHARACTERIZATION OF SANDS COLLECTED FROM ARCHEOLOGICAL SITES NEAR ASWAN, SOUTH EGYPT: **ACEVES, Danae**, División de Ciencias de la Tierra, Facultad de Ingeniería, Universidad Nacional Autónoma de México, Ciudad Universitaria, Mexico D.F, 04510, Mexico, tilaphair@hotmail.com, CARVAJAL-MORENO, Magda, Instituto de Biología, Universidad Nacional Autónoma de México, Ciudad Universitaria, México D.F, 04510, Mexico, and CENTENO-GARCIA, Elena, Instituto de Geología, Universidad Nacional Autónoma de México, Ciudad Universitaria, Mexico D. F, 04510, Mexico

INVESTIGATING THE TAPHONOMY OF MICROBES BY LIGHT AND ELECTRON MICROSCOPY: **MANNING, Ashley R.** and BARTLEY, Julie K., Department of Geosciences, University of West Georgia, Carrollton, GA 30118, amannin1@my.westga.edu

CRINOIDS IN LILLIPUT: MORPHOLOGICAL CHANGE IN THE CLASS

CRINOIDEA ACROSS THE ORDOVICIAN-SILURIAN BOUNDARY: **BORTHS, Matthew R.**, School of Earth Sciences, The Ohio State University, Columbus, OH 43210, borths.1@osu.edu and AUSICH, William I., School of Earth Sciences, The Ohio State University, 275 Mendenhall Laboratory, 125 South Oval Mall, Columbus, OH 43210-1308

WADDLING WITH PTEROSAURS: NEW *PTERAICHNUS* TRACKS FROM THE UPPER SUNDANCE FORMATION OF WYOMING: **MEYERS, Vicki L.**, Department of Geology and Geophysics, University of Wyoming, Dept. 3006, 1000 East University Ave, Laramie, WY 82071, meyersv@uwyo.edu, BREITHAUPT, Brent H., Geological Museum, Univ of Wyoming, Laramie, WY 82071, and CLEMENTZ, Mark T., Department of Geology and Geophysics, University of Wyoming, Dept. 3006, 1000 E. University Ave, Laramie, WY 82071

ICHTHOLOGICAL EVIDENCE FOR FAMILY GROUPS OF MIDDLE JURASSIC DINOSAURS IN WYOMING: EVIDENCE FROM FOOTPRINTS AND GROWTH RATES OF EMUS AND THEROPODS: **GREEN, Todd L.**¹, BREITHAUPT, Brent H.¹, SOUTHWELL, Elizabeth H.¹, and MATTHEWS, Neffra A.², (1) Geological Museum, University of Wyoming, Laramie, WY 82071, uwgeoms@uwyo.edu, (2) National Science and Technology Center, USDOI-Bureau of Land Management, Denver, CO 80225

SCALE DEPENDENCE OF CHALCEDONY VEIN STRIKE UNIFORMITY WITHIN THE CHADRON FORMATION OF BADLANDS NATIONAL PARK: HOFF, Whitney, **KINKADE, John**, MERTES, Jordan, SCHNEIDERWIND, Sarah, WEIHS, Brandon, and MAHER, Harmon Jr, Geography and Geology, University of Nebraska at Omaha, Omaha, NE 68182-0199, jkinkade@mail.unomaha.edu

COMPARISON OF TENSILE FEATURES IN LOESS AND BEDROCK OF HARLAN COUNTY RESERVOIR: **NANFITO, Aleece**, MERTES, Jordan, VALENTOUR, Nicholas, ARTHUR, Thomas, YOUNG, Erin, PISTILLO, Sarah, and MAHER, Harmon Jr, Geography and Geology, University of Nebraska at Omaha, Omaha, NE 68182-0199, ananfito@mail.unomaha.edu

PETROGRAPHY & GEOCHEMISTRY OF THE HONEY BROOK UPLAND, PENNSYLVANIA PIEDMONT: **TARBERT, Kevin D.**, Earth Sciences, Millersville University of Pennsylvania, Nichols House, Millersville, PA 17551, kdtarber@marauder.millersville.edu and MARQUEZ, L. Lynn, Earth Sciences, Millersville University of Pennsylvania, PO Box 1002, Millersville, PA 17551-0302

ELECTRICAL RESISTIVITY TOMOGRAPHY TO STUDY THE EFFECT OF SLOPE ASPECT ON RECHARGE AND SOIL MOISTURE VARIABILITY: **MORSE, Michael S.**, VAN DAM, Remke L., and AYLSWORTH, Robert L., Department of Geological Sciences, Michigan State University, 206 Natural Science Building, East Lansing, MI 48824, morsemi2@msu.edu