

SGE Student Research Poster Session at the 2012 GSA Meeting Charlotte, NC



2012 Austin A. Sartin Best Poster Award

Sigma Gamma Epsilon President Erika Elswick with Melissa Gundersen and Dr. Frederick Vollmer from SUNY New Paltz, the 2012 Austin A. Sartin Best Poster Award winners for their poster KINEMATIC ANALYSIS OF THE ROSENDALE THRUST FAULT, NORTHERNMOST CENTRAL APPALACHIAN FOLD-THRUST BELT, NEW YORK.



2012 National Council Best Poster Award

Sigma Gamma Epsilon President Erika Elswick with Aaron Hiday from Albion College, the National Council Best Poster Award winner for his poster INVESTIGATION OF BIOTURBATION AND GROUNDWATER SAPPING AS POSSIBLE CAUSES OF DIEL TURBIDITY CYCLES IN RICE CREEK, KALAMAZOO WATERSHED, MI.

List of 2012 Abstracts

[SEDIMENT RECORD FROM A BOG ON THE TRUJILLO MEADOWS LANDSLIDE \(>10.6 KA\), SOUTHEASTERN SAN JUAN MOUNTAINS, SOUTHERN COLORADO](#): **CIRONE, Ashley M.**1, SMITH, Jacqueline A.1, JOHNSON, Bradley G.2, and DIEMER, John A.3, (1) Physical & Biological Sciences, The College of Saint Rose, 432 Western Avenue, Albany, NY 12203, cironea218@strose.edu, (2) Environmental Studies, Davidson College, Box 7056, Davidson, NC 28035-7056, (3) Department of Geography & Earth Sciences, University of North Carolina at Charlotte, 9201 University City Boulevard, Charlotte, NC 28223

[PRELIMINARY GEOLOGIC AND GEOMORPHIC MAP OF LATE NEOGENE AND YOUNGER SEDIMENTS IN THE EASTERN PORTION OF THE OVERTON, NE 7.5 MINUTE QUADRANGLE, NEVADA](#): **THAKKAR, Kavita**, Department of Physics, Geology and Astronomy, University of Tennessee at Chattanooga, Chattanooga, TN 37403, ptc531@mocs.utc.edu and **BROCK-HON, Amy L.**, Department of Physics, Geology and Astronomy, University of Tennessee at Chattanooga, 615 McCallie Avenue, Chattanooga, TN 37403

DOES HYDRO-FRACKING AFFECT LOCAL SURFACE WATERS? A TEST FOR CHEMICAL SIGNATURES:

CORRIER, Kristen Lee¹, BROWN, Terriz, MCKINNEY, Michael L.³, HREN, Michael³, and TSCHAPLINSKI, Timothy J.⁴, (1) Environmental Studies, University of Tennessee, Knoxville, TN 37996, ysn249@utk.edu, (2) Earth and Planetary Science, University of Tennessee, Knoxville, TN 37996, (3) Earth and Planetary Science, The University of Tennessee, 306 Earth and Planetary Sciences Building, Knoxville, TN 37996-1410, (4) Biosciences Division, Oak Ridge National Laboratory, Oak Ridge, TN 37831

SHELL DECAY RATES OF FRESHWATER MUSSELS: INSIGHTS FOR SPECIES CONSERVATION: PIGG, Andy

Austin, University of Tennessee Knoxville, 1412 Circle Drive, Knoxville, TN 37996-1410, apigg@utk.edu, MCKINNEY, Michael L., Earth and Planetary Science, The University of Tennessee, 306 Earth and Planetary Sciences Building, Knoxville, TN 37996-1410, and MINCY, Grant, Geology Department, University of Tennessee, Knoxville, TN 37916

SOIL COMPACTION AT BONNAROO MUSIC AND ARTS FESTIVAL, MANCHESTER, TN: LEDOUX, St. Thomas

Majeau, Earth and Planetary Sciences, University of Tennessee, Knoxville, 1605 Fremont Place, Apt 2, Knoxville, TN 37917, sledoux@utk.edu

EFFECTIVENESS OF BEST MANAGEMENT PRACTICES IN IMPROVING WATER QUALITY AND STREAM MORPHOLOGY ON CATTLE FARMS IN CENTRAL VIRGINIA: MACKLIN, Katherine M. and AMBERS, Rebecca

K.R., Dept. of Environmental Studies, Sweet Briar College, 134 Chapel Rd, Sweet Briar, VA 24595, macklin13@sbc.edu

POSITIVE CARBON ISOTOPE SHIFT IN THE MIDDLE TO LATE ORDOVICIAN: NO LINK WITH SEALEVEL?:

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EVALUATING ANTHROPOGENIC IMPACT ON WATER QUALITY OF OHIO RIVERS OVER TIME: DAILEY,

Kelsey R., School of Earth Sciences, The Ohio State University, 275 Mendenhall Laboratory, 125 South Oval Mall, Columbus, OH 43210, dailey.154@osu.edu and LYONS, W. Berry, Byrd Polar Research Center and School of Earth Sciences, The Ohio State University, Columbus, OH 43210

ECOSYSTEM DYNAMICS IN AN EXTREME ENVIRONMENT: LAKE FRYXELL, TAYLOR VALLEY, ANTARCTICA:

RYTEL, Alex L., 1574 Worthington St, Columbus, OH 43201, rytel.4@osu.edu, HERBEI, Radu, Department of Statistics, The Ohio State University, Columbus, OH 43210, LYONS, W. Berry, Byrd Polar Research Center and School of Earth Sciences, The Ohio State University, Columbus, OH 43210, PRISCU, John C., Department of Land Resources and Environmental Sciences, Montana State University, P.O. Box 173120, Bozeman, MT 59717-3120, and MCKNIGHT, Diane M., Institute for Arctic and Alpine Research, Univ. of Colorado, 1560 30th Street, Boulder, CO 80309

REMEDICATION OF AQUIFERS WITH OXIDANT BEARING SODIUM SILICATE SOLUTIONS/GELS: COTTER,

Zachary MK¹, SOLPUKER, U.¹, and SCHWARTZ, F.W.², (1) School of Earth Sciences, The Ohio State University, 125 South Oval Mall, 275 Mendenhall Laboratory, Columbus, OH 43210, Cotter.66@buckeyemail.osu.edu, (2) School Earth Sciences, The Ohio State University, 125 S. Oval Mall, Columbus, OH 43210

AN INQUIRY INTO THE EVOLUTION AND SEDIMENTS OF CAVES ALONG THE SCIOTO RIVER: PARKER, Eric

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PRIMARY PRODUCTIVITY AND PALEOXYGENATION FOLLOWING THE END-PERMIAN MASS EXTINCTION: A GEOCHEMICAL ANALYSIS OF GRIESBACHIAN SEDIMENTS FROM THE WESTERN CANADIAN SEDIMENTARY BASIN (ALBERTA, CANADA):

AGREDANO, Elizabeth, Department of Geological Sciences, California State University, Fullerton, 800 N. State College Blvd, Fullerton, CA 92831, elizabethagredano@csu.fullerton.edu, WOODS, Adam D., Department of Geological Sciences, California State University, Fullerton, 800 N. State College Blvd, Fullerton, CA 92834-6850, ZONNEVELD, J.-P., Department of Earth and Atmospheric Sciences, University of

Alberta, Edmonton, AB T6G 2E3, Canada, and BEATTY, Tyler W., Department of Geoscience, University of Calgary, 2500 University Drive N.W, Calgary, AB T2N 1N4

AGE AND PROVENANCE OF THE OLDEST SEDIMENTS IN THE NORTHERN PENINSULAR RANGES FOREARC BASIN, ORANGE CO., CA: **HOLLIS, Natalie**, Department of Geological Sciences, California State University, Fullerton, 800 North State College Blvd, Fullerton, CA 92834-6850, nhollis@csu.fullerton.edu, GEVEDON, Michelle L., Geological Sciences, California State University Fullerton, 800 N. State College Blvd, Fullerton, CA 92834, and CLEMENS-KNOTT, Diane, Department of Geological Sciences, California State University, Fullerton, CA 92834

STABLE ISOTOPIC PALEOCLIMATE RECORD IN CALCAREOUS TUFA FROM MALANAPHY SPRINGS STATE PRESERVE, WINNESHIEK COUNTY, IOWA, USA: **BURKET, S. Bekah**¹, WANAMAKER, Alan D. Jr₂, and SIMPKINS, William W.₂, (1) Stetson University, 421 N Woodland Blvd, DeLand, FL 32723, bekahburket@gmail.com, (2) Department of Geological and Atmospheric Sciences, Iowa State University, 253 Science I, Ames, IA 50011-3212

AN EXPANDED STRATIGRAPHIC RECORD OF NORTH AMERICAN PLATE MOTION DURING THE EARLY STAGES OF THE MID-CONTINENT RIFT: **MUSTAIN, Monica**, Illinois State University, Normal, IL 61761, mrmusta@ilstu.edu, VAUGHAN, Angus A., Department of Geology, Carleton College, 300 North College Street, Northfield, MN 55057, SWANSON-HYSELL, Nicholas L., Institute for Rock Magnetism, University of Minnesota, Department of Earth Sciences, 100 Union Street SE, Minneapolis, MN 55455, and FEINBERG, Joshua, Institute for Rock Magnetism, University of Minnesota, Department of Geology and Geophysics, 310 Pillsbury Drive SE, Minneapolis, MN 55455

INFLUENCE OF MECHANICAL STRATIGRAPHY ON THRUST BELT MORPHOLOGY IN PHYSICAL MODELS: **STECKER, E.C.**, Department of Physical Sciences, Kutztown University, Kutztown, PA 19530, estec453@live.kutztown.edu and TINDALL, Sarah, Department of Physical Sciences, Kutztown Univ, Kutztown, PA 19530

RECENT FOLDING, GEOMORPHIC EVOLUTION, AND PALEOCLIMATE: APSHERON PENINSULA, AZERBAIJAN: **LESLIE, Caitlin E.**, Geology, Grand Valley State University, 1 Campus Drive, Allendale, MI 49401, leslicca@mail.gvsu.edu, WEBER, John, Geology, Grand Valley State University, 1 Campus Drive, PAD 118, Allendale, MI 49401, WAMPLER, Peter J., Geology Department, Grand Valley State University, 1 Campus Drive, Allendale, MI 49401, and ALIYEVA, Elmira, Geology, Geology Institute of Azerbaijan National Academy of Sciences, Baku, AZ1000, Azerbaijan

A COMPOSITIONAL INVESTIGATION OF POST-DETONATION NUCLEAR DEBRIS: RESULTS FROM *IN SITU* INVESTIGATIONS OF TRINITITE GLASS: **HAINLEY, Timothy J.**, SMIERCIAK, Madeline F., WELSH, Nolan P., SIMONETTI, Antonio, BELLUCCI, Jeremy, KOEMAN, Elizabeth, and WALLACE, Christine, Civil & Environmental Engineering and Earth Sciences, University of Notre Dame, 156 Fitzpatrick Hall, Notre Dame, IN 46556, thainley@nd.edu

VALIDATION AND APPLICATION OF IN-SITU IRON-MANGANESE OXIDE COATED STREAM PEBBLES AS SENSORS FOR ARSENIC SOURCE MONITORING: **CASTEEL, Amanda M.**, Earth and Environmental Science, Lehigh University, 1 West Packer Ave, Bethlehem, PA 18015, amc413@lehigh.edu, PETERS, Stephen C., Earth and Environmental Sciences, Lehigh University, 1 W Packer Ave, Bethlehem, PA 18015, and BLAKE, Johanna M.T., Earth and Environmental Sciences, Lehigh University, 1 W. Packer Ave, Bethlehem, PA 18015

REASSESSING PENNSYLVANIA ABANDONED COAL MINE DISCHARGES: **VIRGONE, Kayla M.**, SOLLY, Joseph A., BURROWS, Jill E., and PETERS, Stephen C., Earth and Environmental Sciences, Lehigh University, 1 W Packer Ave, Bethlehem, PA 18015, kmv210@lehigh.edu

SPATIAL AND TEMPORAL VARIABILITY OF STABLE ISOTOPES IN AN UPPER BED II TUFA, OLDUVAI GORGE, TANZANIA: **KARIS, Alyssa M.**, Earth and Planetary Sciences, Rutgers University, 610 Taylor Road, Piscataway, NJ 08854-8066, karis.alyssa@gmail.com, ASHLEY, Gail M., Earth and Planetary Sciences, Rutgers Univ, 610 Taylor Road, Piscataway, NJ 08854-8066, and WRIGHT, James D., Geological Sciences, Rutgers University, 610 Taylor Road, Wright-Reiman Labs, Piscataway, NJ 08854

CARBON SEQUESTRATION BENEATH THE NEW JERSEY CONTINENTAL SHELF: AN ASSESSMENT OF THE GEOLOGICAL AND SOCIO-POLITICAL FACTORS: **HLAVATY, Corie L.**, Rutgers University, Department of Earth and Planetary Sciences, New Brunswick, NJ 08901, chlavy@eden.rutgers.edu, KOPP, Robert E., Department of Earth and Planetary Sciences, Rutgers University, New Brunswick, NJ 08901, MILLER, Kenneth G., Dept. of Earth and Planetary Sciences, Rutgers University, Wright Laboratories, 610 Taylor Rd, Piscataway, NJ 08854, BROWNING, James V., Dept. of Earth and Planetary Sci, Rutgers University, Wright Laboratories, 610 Taylor Rd,

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MICROBIAL ASSEMBLAGES IN A SMALL, URBAN RESERVOIR IMPACTED BY ACID MINE DRAINAGE, OAKLAND, CA: **WU, Caroline**¹, FAUL, Kristina L.¹, and RADEMACHER, Laura K.², (1) Environmental Sciences Program/Department of Chemistry, Mills College, 5000 MacArthur Blvd, Oakland, CA 94613, cwu@mills.edu, (2) Department of Earth and Environmental Sciences, University of the Pacific, 3601 Pacific Avenue, Stockton, CA 95211

A SEARCH FOR APATITE AND ZIRCON IN THE ROCKS OF THE MARLBOROUGH FAULT SYSTEM, SOUTH ISLAND, NEW ZEALAND: **LUGO CENTENO, Cristina M.**, RESESS Internship at UNAVCO, Boulder, CO, and, Department of Geology, University of Puerto Rico at Mayaguez, Mayaguez, PR 00680, cristina.lugo@upr.edu, DUVALL, Alison R., Department of Earth and Space Sciences, University of Washington and Department of Geological Sciences, University of Colorado, Boulder, CO 80309, and FLOWERS, Rebecca, Department of Geological Sciences, University of Colorado, Boulder, Campus Box 399, 2200 Colorado Ave, Boulder, CO 80309

KINEMATIC ANALYSIS OF THE ROSENDALE THRUST FAULT, NORTHERNMOST CENTRAL APPALACHIAN FOLD-THRUST BELT, NEW YORK: **GUNDERSEN, Melissa**, Geology, SUNY New Paltz, 1 Hawk Drive, New Paltz, NY 12561, mel.gundersen86@hawkmil.newpaltz.edu, VOLLMER, Frederick W., Geology, SUNY New Paltz, New Paltz, NY 12401, MAINWARING, Nicole E., Earth and Environmental Sciences, University of the Pacific, 3601 Pacific Avenue, Stockton, CA 92511, BURMEISTER, Kurtis C., Dept of Earth and Environmental Sciences, University of the Pacific, 3601 Pacific Avenue, Stockton, CA 95211, WALKER, Jeffrey R., Earth Science and Geography, Vassar College, 124 Raymond Ave, Box 735, Poughkeepsie, NY 12604, and KUIPER, Yvette D., Geology and Geological Engineering, Colorado School of Mines, 1516 Illinois Street, Golden, CO 80401

THE DISTRIBUTION OF ANTHROPOGENIC LEAD IN AN URBAN SOIL: A CASE STUDY FROM ROCHESTER, NY: **POPE, Gina G.** and NOLL, Mark R., Department of the Earth Sciences, The College at Brockport, State University of New York, 350 New Campus Dr, Brockport, NY 14420, gpope1@brockport.edu

GEOLOGICAL PARAMETERS IN MODELLING NATURAL WASTE-WATER TREATMENT SYSTEMS FOR THE GLOBAL POOR: EDGREN, David C., **WALLETT, Kaitlyn N.**, and GREENBERG, Jeffrey K., Geology and Environmental Science, Wheaton College, Wheaton, IL 60187, kaitlyn.wallett@my.wheaton.edu

CARBON AND OXYGEN ISOTOPE EVIDENCE FOR THE ORIGIN OF LATE-KINEMATIC CARBONATE VEINS IN PROTEROZOIC METABASALTIC ROCKS, EASTERN BLACK HILLS, SD: **GATES, Christopher H.**¹, WEBB, Forrest C.², and GREENBERG, Jeffrey K.¹, (1) Geology and Environmental Science, Wheaton College, Wheaton, IL 60187, chris.gates@my.wheaton.edu, (2) Geology, Univ. of Kentucky, Lexington, KY 40536

GIS WATERSHED ANALYSIS FOR EROSION CONTROL OF UPPER LA BAIE DES MOUSTIQUES, NORTHWEST HAITI: **WRIGHT, J. Toby**, MEADOWS, Derek, KISHKUNAS, Kaitlyn M., and GREENBERG, Jeffrey K., Geology and Environmental Science, Wheaton College, Wheaton, IL 60187, toby.wright@my.wheaton.edu

GLACIOCHEMISTRY OF A SHALLOW ICE CORE FROM THE WEST ANTARCTIC ICE SHEET: SOURCES AND IMPLICATIONS: **THOMPSON, Lauren M.**, Chemistry, Wheaton College (MA), Norton, MA 02766, lmthompson9@gmail.com, EVANS, Matthew J., Chemistry Department, Wheaton College, Norton, MA 02766, FREY, Karen, Geography, Clark University, Worcester, MA 01610, and DAS, Sarah, Woods Hole Oceanographic Institution, Woods Hole, MA 02543

DETERMINING DEPOSITIONAL HETEROGENEITY THROUGH CLAY MINERALOGY AND PARTICLE SIZE ANALYSIS OF AN EARLY MIOCENE PALEO-FOREST PALEOSOL, HIWEGI FORMATION, RUSINGA ISLAND, KENYA: **HORNER, William H.**¹, MICHEL, Lauren A.¹, PEPPE, Daniel J.¹, DRIESE, Steven¹, MCNULTY, Kieran P.², LEHMANN, Thomas³, DUNSWORTH, Holly M.⁴, and HARCOURTSMITH, William E.H.⁵, (1) Department of Geology, Baylor University, One Bear Place #97354, Waco, TX 76798-7354, W_Horner@baylor.edu, (2) Department of Anthropology, University of Minnesota, 395 Hubert H. Humphrey Center, 301 19th Avenue South, Minneapolis, MN 55455, (3) Abteilung Paläoanthropologie und Messelforschung, Forschungsinstitut und Naturmuseum Senckenberg, Senckenberganlage 25, Frankfurt, D-60325, Germany, (4) Department of Sociology and Anthropology, University of Rhode Island, 507 Chafee Building, 10 Chafee Road, Kingston, RI 02881, (5) Department of Vertebrate Paleontology, American Museum of Natural History, Central Park West at 79th Street, New York, NY 10024

MAGNETOSTRATIGRAPHY OF THE EARLY MIOCENE HIWEGI FORMATION (RUSINGA ISLAND, LAKE VICTORIA, KENYA): **MCCOLLUM, Mark Samson**, Geology, Baylor University, 2220 S 2nd St, Waco, TX 76706, mark_mccollum@baylor.edu, **PEPPE, Daniel J.**, Department of Geology, Baylor University, One Bear Place #97354, Waco, TX 76798-7354, **MCNULTY, Kieran P.**, Department of Anthropology, University of Minnesota, 395 Hubert H. Humphrey Center, 301 19th Avenue South, Minneapolis, MN 55455, **DUNSWORTH, Holly M.**, Department of Sociology and Anthropology, University of Rhode Island, 507 Chafee Building, 10 Chafee Road, Kingston, RI 02881, **HARCOURT-SMITH, William E.H.**, Department of Vertebrate Paleontology, American Museum of Natural History, Central Park West at 79th Street, New York, NY 10024, and **ANDREWS, Alexandra L.**, Department of Earth, Atmospheric, and Planetary Sciences, Massachusetts Institute of Technology, Cambridge, MA 02139

PRELIMINARY FINITE STRAIN AND FABRIC ANALYSIS OF CONGLOMERATE FROM THE SHAWANGUNK FORMATION; NORTHERN APPALACHIAN FOLD-THRUST BELT, HUDSON VALLEY, NEW YORK: **KLEMM, Brittany M.**¹, **VOLLMER, Frederick W.**², and **BURMEISTER, Kurtis C.**¹, (1) Department of Earth and Environmental Sciences, University of the Pacific, 3601 Pacific Avenue, Stockton, CA 95211, b_klemm@u.pacific.edu, (2) Department of Geology, SUNY New Paltz, 1 Hawk Drive, New Paltz, NY 12401

SEDIMENT CORE DERIVED HISTORY OF METAL CYCLING THROUGH A SMALL, ACID MINE DRAINAGE IMPACTED RESERVOIR IN OAKLAND, CA: **YUN, Jason E.L.**¹, **RADEMACHER, Laura K.**¹, and **FAUL, Kristina L.**², (1) Department of Earth and Environmental Sciences, University of the Pacific, 3601 Pacific Avenue, Stockton, CA 95211, j_yun1@u.pacific.edu, (2) Environmental Sciences Program/Department of Chemistry, Mills College, 5000 MacArthur Blvd, Oakland, CA 94613

QUANTIFYING PATHS IN UHP TERRANES: A 3-D APPROACH USING THERMOBAROMETRY AND FIELD RELATIONSHIPS: **HABICHT, M. Helen**, Geology, Albion College, 611 E. Porter St, Albion, MI 49224, mhh11@albion.edu, **MENOLD, Carrie**, Geological Sciences, Albion College, 611 East Porter St, Albion, MI 49224, **WEBB, A. Alexander G.**, Geology and Geophysics, Louisiana State University, E235 Howe-Russell Geoscience Complex, Baton Rouge, LA 70803, and **DONALDSON, Dennis**, Louisiana State University, Baton Rouge, LA 70803

INVESTIGATION OF BIOTURBATION AND GROUNDWATER SAPPING AS POSSIBLE CAUSES OF DIEL TURBIDITY CYCLES IN RICE CREEK, KALAMAZOO WATERSHED, MI: **HIDAY, Aaron D.**, LINCOLN, Timothy N., and **WILCH, Thomas I.**, Geological Sciences, Albion College, Albion, MI 49224, adh10@albion.edu

MAGNETIC SUSCEPTIBILITY PROFILES AS A TOOL FOR CORRELATION: A CASE STUDY FROM UPPER ORDOVICIAN RED RIVER FM., NORTH DAKOTA AND BIGHORN DOLOMITE, WYOMING: **HOOTEN, Juliet V.**, Geology, St. Lawrence University, SMC: 1346 23 Romoda Dr, Canton, NY 13617, jvhoot10@stlawu.edu and **HUSINEC, Antun**, Geology Department, St. Lawrence University, 23 Romoda Drive, Canton, NY 13617

SLOPE-INFLUENCED WINDTHROW OF UPROOTED WHITE PINES (PINUS STROBUS): LAMPSON FALLS, ADIRONDACK MOUNTAINS, NY: **COX, Terry**, Geology, St. Lawrence University, 23 Romoda Dr, Canton, NY 13617, tlcox10@stlawu.edu and **STEWART, Alexander K.**, Department of Geology, St. Lawrence University, Canton, NY 13617

EVIDENCE OF A VALLEY GLACIER ANTEDATING THE LLEWELLYN GLACIER, JUNEAU ICEFIELD, CANADA: AN ANALOGUE FOR THE ADIRONDACKS?: **CHESLER, Aaron Jeffrey**, Geology, St. Lawrence University, SMC 1881, 23 Romoda Dr, Canton, NY 13617, aiches09@stlawu.edu and **STEWART, Alexander K.**, Department of Geology, St. Lawrence University, Canton, NY 13617

BULK MAGNETIC SUSCEPTIBILITY AS A PROXY FOR COMPOSITIONAL VARIATION IN PLUTONIC ROCKS: MAGMA MIXING CAN BE A PROBLEM: **HEINER, KayeLinda**, Geology and Geophysics, University of Utah, 115 S 1460 E, Salt Lake City, UT 84112-0101, kayelinda.heiner@gmail.com, **BARTLEY, John M.**, Department of Geology and Geophysics, Univ of Utah, 115 S. 1460 E, Rm 383 FASB, Salt Lake City, UT 84112, **STEARNS, Michael A.**, Earth Science, University of California, 1006 Webb Hall, MC 9630, Santa Barbara, CA 93106-9630, and **PETERSEN, Erich U.**, Geology and Geophysics, University of Utah, 115 S. 1460 E. Rm. 383, Salt Lake City, UT 84112

FE RATIOS IN SOILS FROM A PIEDMONT TERRACE CHRONOSEQUENCE, CATAWBA RIVER, NORTH CAROLINA: **RINEHART, Morgan S.**¹, **EPPE, Martha C.**², **ABERNATHY, Stephen**², and **AQUINO, Kim**², (1) Department of Geography & Earth Sciences, University of North Carolina at Charlotte, 9201 University City Blvd, Charlotte, NC 28223, mrineha2@uncc.edu, (2) Department of Geography & Earth Sciences, University of North Carolina at Charlotte, 9201 University City Boulevard, Charlotte, NC 28223

CHANGES IN THE LENGTH AND VOLUME OF RABOTS GLACIÄR, SWEDEN, 2003-2011 BASED ON GEODETIC METHODS: **PANKRATZ, Latysha** and **BRUGGER, Keith A.**, Geology Discipline, University of Minnesota, Morris, 600 E. 4th Street, Morris, MN 56267, pankr022@morris.umn.edu

COMPARATIVE PETROLOGY AND MINERALOGY OF PEGMATITES FROM THE PIKES PEAK BATHOLITH, COLORADO: **BOLLEN, Elizabeth M.**¹, HOLLABAUGH, Curtis L.¹, and BERG, Christopher A.², (1) Geosciences, University of West Georgia, Carrollton, GA 30118, ebollen1@my.westga.edu, (2) Department of Geosciences, University of West Georgia, 1601 Maple Street, Carrollton, GA 30118

MINERALOGY AND GEOCHEMISTRY OF THE HONEYCOMB HILLS RHYOLITE, JUAB COUNTY, UTAH: **PHILLIPS, Judy McCurry** and HOLLABAUGH, Curtis L., Geosciences, University of West Georgia, Carrollton, GA 30118, jphill16@my.westga.edu

EVALUATION OF MICROSTRUCTURES, MINERAL CHEMISTRY, AND PRELIMINARY THERMOBAROMETRY FOR THE KINNARD CREEK FAULT, CENTRAL GEORGIA: BERG, Christopher A. and **MASSEY, Rachel**, Department of Geosciences, University of West Georgia, 1601 Maple Street, Carrollton, GA 30118, rmassey4@my.westga.edu

A MODIFIED COASTAL VULNERABILITY INDEX FOR SMALL ASSOCIATED ISLANDS OF PUERTO RICO AND THE U. S. VIRGIN ISLANDS: **PERISON-PARRISH, Elizabeth M.**¹, RUNYAN, Ryann M.¹, SIEMER, Kyle W.², JACKSON, Chester W. Jr³, BUSH, David M.¹, LLERANDI-ROMÁN, Pablo A.⁴, and NEAL, William J.⁴, (1) Department of Geosciences, University of West Georgia, Carrollton, GA 30118, eperiso1@my.westga.edu, (2) Environmental sciences, University of Toledo, 2801 Bancroft Ave, Toledo, OH 49606, (3) Department of Geology and Geography, Georgia Southern University, Statesboro, GA 30460, (4) Department of Geology, Grand Valley State University, Allendale, MI 49401

MINERALOGY OF THE OXIDE MINERALS IN THE BUCK CREEK MAFIC-ULTRAMAFIC COMPLEX, NORTH CAROLINA: **GRAYBEAL, Daniel B.**¹, KIEL, Nathan J.¹, DYER, Elizabeth K.¹, KLING, Corbin L.¹, PEREZ, Amy E.¹, SELLERS, Rachel C.¹, FOSTER, Nicholas A.¹, FLEISHER, Christopher J.², and SWANSON, Samuel E.², (1) Department of Geology, University of Georgia, Athens, GA 30602, dan31618@uga.edu, (2) Dept. of Geology, University of Georgia, Athens, GA 30602

EFFICACY OF COMMERCIAL HOUSEHOLD WATER FILTERS TO REMOVE CONTAMINANTS FROM DRINKING WATER: **ESTABROOK, Alicia** and MUTITI, Samuel, Biology and Environmental Science Department, Georgia College & State University, Milledgeville, GA 31061, alicia.estabrook@gmail.com

CHARACTERIZING SMALL ASSOCIATED ISLANDS OF PUERTO RICO AND USVI: PROVIDING A BASIS FOR FORECASTING SHORELINE RESPONSE TO SEA-LEVEL RISE: **RUNYAN, Ryann M.**¹, PERISON-PARRISH, Elizabeth M.¹, LOCURTO, Patricia L.¹, SIEMER, Kyle W.², JACKSON, Chester W. Jr³, BUSH, David M.¹, LLERANDI-ROMÁN, Pablo A.⁴, and NEAL, William J.⁴, (1) Department of Geosciences, University of West Georgia, Carrollton, GA 30118, rrunyan1@my.westga.edu, (2) Environmental sciences, University of Toledo, 2801 Bancroft Ave, Toledo, OH 49606, (3) Department of Geology and Geography, Georgia Southern University, Statesboro, GA 30460, (4) Department of Geology, Grand Valley State University, Allendale, MI 49401

METAL CYCLING THROUGH AN EPHEMERAL ACID MINE DRAINAGE IMPACTED URBAN RESERVOIR IN OAKLAND, CA: **STITT, Caroline R.**¹, FAUL, Kristina L.¹, and RADEMACHER, Laura K.², (1) Environmental Sciences Program/Department of Chemistry, Mills College, 5000 MacArthur Blvd, Oakland, CA 94613, castitt@mills.edu, (2) Department of Earth and Environmental Sciences, University of the Pacific, 3601 Pacific Avenue, Stockton, CA 95211

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ANALYSIS OF SEDIMENT CORES FROM THE ELK MEADOWS LANDSLIDE AND THE SILVER LAKES LANDSLIDE: WHAT SEDIMENT CORES TELL US ABOUT THE TIMING AND ENVIRONMENTAL CONDITIONS OF LARGE LANDSLIDES IN THE SOUTHEASTERN SAN JUAN MOUNTAINS: KRUEGER, Kelsey¹, SCHMIDT, Catherine¹, CIRONE, Ashley M.², SMITH, Jacqueline A.², DIEMER, John A.³, and JOHNSON, Bradley G.¹, (1) Environmental Studies, Davidson College, Box 7056, Davidson, NC 28035-7056, kekrueger@davidson.edu, (2) Physical & Biological Sciences, The College of Saint Rose, 432 Western Avenue, Albany, NY 12203, (3) Department of Geography & Earth Sciences, University of North Carolina at Charlotte, 9201 University City Boulevard, Charlotte, NC 28223

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