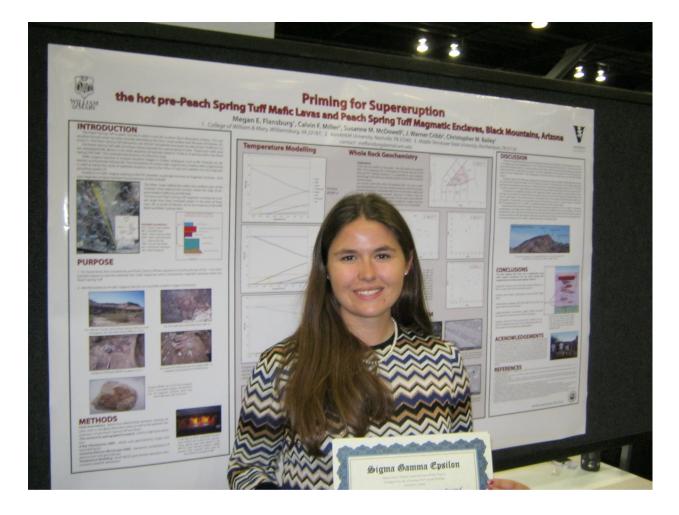
SGE Student Research Poster Session at the 2014 GSA Meeting Vancouver, Canada



2014 Austin A. Sartin Best Poster Award

The recipient of the 2014 Austin A. Sartin Best Poster Award is Megan Flansburg. Megan is a member of Delta Alpha Chapter at the College of William & Mary in Williamsburg, VA. Her winning research poster was <u>PRIMING FOR SUPERERUPTION: THE HOT PRE-PEACH</u> <u>SPRING TUFF LAVA FLOWS AND PEACH SPRING TUFF MAFIC ENCLAVES, BLACK</u> <u>MOUNTAINS, ARIZONA.</u> One of her co-authors, Warner Cribb, serves as advisor for Eta Sigma Chapter at Middle Tennessee State University.



2014 National Council Best Poster Award

The recipient of the 2014 National Council Best Poster Award is Emily Lubicich. She is a member of Theta Beta. Her coauthors Tristan Craddock and Andres Werkhoven are both active Theta Beta members and Dr. Vollmer is their chapter advisor. Their poster was titled EVIDENCE FROM JOINT SETS AND SHEAR ZONES IN EASTERN NEW YORK FOR TWO OROGENIC EVENTS AND THE WESTWARD DISPLACEMENT OF THE CATSKILL MOUNTAINS ALONG A DECOLLEMENT.

2014 Sigma Gamma Epsilon Undergraduate Research (Posters)

List of 2014 Abstracts

208-1 45 SEDIMENT CONTAMINANT DISTRIBUTION AND CHEMICAL BEHAVIOR FROM THE TRI-STATE LEAD AND ZINC MINING DISTRICT

NORTH, Breanna, Earth Science Department, University of Arkansas at Little Rock, 2801 S. University Ave, Little Rock, AR 72204, benorth@ualr.edu, RUHL, Laura, Earth Science, University of Arkansas at Little Rock, 2801 S. University Ave, 307 Fribourgh Hall, Little Rock, AR 72204-1000, and POTRA, Adriana, Geosciences, University of Arkansas, 1 Ozark Hall, Fayetteville, AR 72701

208-2 46 NUTRIENT DYNAMICS IN A STORMWATER MANAGEMENT COMPLEX AT GRAND VALLEY STATE UNIVERSITY, ALLENDALE, MICHIGAN

BRADY, Ashley, Geology, Grand Valley State University, 1 Campus Drive, Padnos 118, Allendale, MI 49401, bradyash@mail.gvsu.edu, KNEESHAW, Tara, Geology Department, Grand Valley State University, Allendale, MI 49401, and WAMPLER, Peter J., Geology Department, Grand Valley State University, 1 Campus Drive, Allendale, MI 49401

208-3 47 DYNAMICS OF DESTABILIZATION: PUMICEOUS EVIDENCE OF REHEATED, REMELTED, AND REMOBILIZED CUMULATE FROM THE BASE OF A SUPERVOLCANO MAGMA CHAMBER

FOLEY, Michelle L., Geography & Geology, Western Kentucky University, Bowling Green, KY 42101, michelle.foley229@topper.wku.edu, MILLER, C.F., Department of Earth and Environmental Sciences, Vanderbilt University, Nashville, TN 37235, WULFF, Andrew H., Geography and Geology, Western Kentucky University, 1906 College Heights Blvd. #31066, Bowling Green, KY 42101-1066, MCDOWELL, Susanne M., Earth and Environmental Sciences, Vanderbilt University, Nashville, TN 37235, and COVEY, Aaron K., Dept. of Earth and Environmental Sciences, Vanderbilt University, Nashville, TN 37235

208-4 48 <u>DENDROGEOMORPHIC EVIDENCE OF FREQUENT MASS WASTING FROM</u> <u>REACTION WOOD IN BLACK SPRUCE, NORTHWAY JCT., ALASKAN INTERIOR</u> <u>HEINRICH, Catherine</u>, Geology, St. Lawrence University, 23 Romoda Dr, Canton, NY 13617, cehein11@stlawu.edu, STEWART, Alexander K., Department of Geology, St. Lawrence University, Canton, NY 13617, and HUBBARD, Trent D., Alaska Division of Geological & Geophysical Surveys, 3354 College Road, Fairbanks, AK 99709

208-5 49 VOLUMINOUS INTERMEDIATE, EFFUSIVE MAGMATISM IN THE BLACK MOUNTAINS, AZ, PRECEDING THE PEACH SPRING SUPERERUPTION, AND EVALUATION OF ITS POTENTIAL RELATIONSHIP TO THE SUPERVOLCANO MAGMA CHAMBER

<u>RICE, Stacey A.</u>, Geosciences, Stony Brook University, Stony Brook, NY 11794, stacey.rice@stonybrook.edu, CLAIBORNE, Lily L., Earth and Environmental Sciences, Vanderbilt University, Nashville, TN 37235, RENTZ, Shannon P., Geosciences, Middle Tennessee State University, Murfreesboro, TN 37132, and CRIBB, J. Warner, Geosciences, Middle Tennessee State Univ, PO Box 9, Murfreesboro, TN 37132 208-6 50 POROSITY ANALYSIS OF DEFORMATION BANDS IN SANDSTONES AND CONGLOMERATES FROM HILLSDALE CANYON, SOUTHERN UTAH

SKANKEY, Robert, Physical Science, Southern Utah University, 364 North 4250 West, Cedar City, UT 84720, robertcskankey@gmail.com and MACLEAN, John S., Geology, Southern Utah University, SC 309, 351 West University Boulevard, Cedar City, UT 84720

208-7 51 SPATIAL AND TEMPORAL DISTRIBUTION OF POLYCYCLIC AROMATIC HYDROCARBONS (PAHS) WITHIN SEDIMENT AND FISH TISSUE OF THE LOWER CHESAPEAKE BAY BASIN, USA

COLEMAN, Katherine L.¹, ODHIAMBO, Ben K.¹, SHARPLESS, Charles M.², COXON, Taylor M.¹, WIELAND, Werner³, and BUNCH, Aaron J.⁴, (1) Earth and Environmental Sciences, University of Mary Washington, 1301 College Avenue, Fredericksburg, VA 22401, kcolema2@mail.umw.edu, (2) Department of Chemistry, University of Mary Washington, 1301 College Ave, Jepson Science Center, Fredericksburg, VA 22401, (3) Department of Biological Sciences, University of Mary Washington, 1301 College Avenue, Fredericksburg, VA 22401, (4) Virginia Department of Game and Inland Fisheries, 3801 John Tyler Memorial Highway, Charles City, VA 23030

208-8 52 <u>A NOVEL METHOD FOR DETECTING PHARMACEUTICALS IN SURFACE</u> WATERS, CENTRAL ARKANSAS, USA

JOHNSON, Morgan E.¹, MCMILLAN, Margaret E.¹, WOODLING, Kellie², and GAMBOA DA COSTA, Goncalo², (1) Department of Earth Sciences, University of Arkansas at Little Rock, 2801 S. University Avenue, Little Rock, AR 72204, mejohnson1@ualr.edu, (2) Division of Biochemical Toxicology, National Center for Toxicological Research, 3900 NCTR Road, Jefferson, AR 72079

208-9 53 INVESTIGATION OF A PRE-SUPERERUPTION IGNIMBRITE: PETROLOGY OF THE MIOCENE COOK CANYON TUFF, BLACK MOUNTAINS, ARIZONA

PRATT, Ricky Daniel¹, CLAIBORNE, Lily L.², MILLER, Calvin F.², FERGUSON, Charles A.³, CRIBB, J. Warner⁴, and SZRAMEK, Lindsay A.¹, (1) Geosciences, Austin Peay State University, Clarksville, TN 37042, rpratt3@my.apsu.edu, (2) Earth and Environmental Sciences, Vanderbilt University, Nashville, TN 37235, (3) Arizona Geological Survey, 416 West Congress, Suite 100, Tucson, AZ 85719, (4) Geosciences, Middle Tennessee State Univ, Murfreesboro, TN 37132

208-10 54 TROPICAL SHALLOW-MARINE CARBONATE- SILICICLASTIC DEPOSITIONAL ENVIRONMENT OF THE LITTLE LAUGHLANDS BAY, JAMAICA MILLER, John D., Geology Department, St. Lawrence University, 23 Romoda Dr, Canton, NY 13617, jdmill12@stlawu.edu, HUSINEC, Antun, Geology Department, St. Lawrence University, 23 Romoda Drive, Canton, NY 13617, and MURPHY, John T. Jr, PetroTechnical Services, Schlumberger, 5080 California Ave, Suite 400, Bakersfield, CA 93309 208-11 55 <u>REMOTE SENSING CHARACTERIZATION OF A MAJOR PRE-</u> SUPERERUPTION EFFUSIVE UNIT IN THE BLACK MOUNTAINS OF NORTHWEST <u>ARIZONA</u>

MCGUINNESS, Sarah A., Geography, Geology, and the Environment, Slippery Rock University, Slippery Rock, PA 16057, sam1272@sru.edu, LANG, N.P., Department of Geology, Mercyhurst University, Erie, PA 16546, RICE, Stacey A., Geosciences, Stony Brook University, 38 Lenox Street, Lindenhurst, NY 11757, RENTZ, Shannon P., Geosciences, Middle Tennessee State University, Murfreesboro, TN 37132, MILLER, Calvin F., Earth and Environmental Sciences, Vanderbilt University, Nashville, TN 37235, and MCDOWELL, Susanne M., Earth and Environmental Sciences, Vanderbilt University, Nashville, TN 37235-1805

208-12 56 ANALYSIS OF PHOSPHATE IN RIPARIAN SEDIMENT PORE-WATERS: DOES PHOSPHATE SEQUESTERED IN THE STREAM BED CONTRIBUTE TO THE PHOSPHATE LOAD OF THE KALAMAZOO RIVER?

HARVEY, Kayleigh M., HAVENS, Kaitlyn Pospiech, and LINCOLN, Timothy N., Department of Geological Sciences, Albion College, 611 E Porter St, Albion, MI 49224, kmh12@albion.edu

208-13 57 REPORT OF AN ONGOING INVESTIGATION INTO THE DEVELOPMENT OF DISSOLUTION VOIDS IN PETROCALCIC MATERIALS AT MORMON MESA, NEVADA MORGENTHALER, Sarah E., Physics, Geology and Astronomy, University of Tennessee at Chattanooga, 615 McCallie Ave. MS 6556, Chattanooga, TN 37403, xpj869@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

<u>208-14</u> 58 <u>PRIMING FOR SUPERERUPTION: THE HOT PRE-PEACH SPRING TUFF</u> LAVA FLOWS AND PEACH SPRING TUFF MAFIC ENCLAVES, BLACK MOUNTAINS, <u>ARIZONA</u>

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<u>208-15</u> 59 <u>REMOTELY-SENSED DISTRIBUTION OF THE MIOCENE-AGED PEACH</u> <u>SPRING TUFF SUPERERUPTION DEPOSIT IN THE SOUTHERN BLACK MOUNTAINS</u> OF NW AZ

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WEISBERG, Wesley R.¹, METCALF, James R.², and FLOWERS, Rebecca M.², (1) Geography, Geology, and Planning Department, Missouri State University, 901 S. National Ave, Springfield, MO 65897, wes4891@live.missouristate.edu, (2) Department of Geological Sciences, University of Colorado, Campus Box 399, 2200 Colorado Ave, Boulder, CO 80309

208-17 61 FRACTURE ORIENTATION AND STRUCTURAL ANALYSIS OF THE CHAUMONT LIMESTONE

POPE, Gina G., Earth Sciences, SUNY College at Brockport, 350 New Campus Dr, Brockport, NY 14420, gpope1@brockport.edu and RICHARDS, Paul L., Dept. of Earth Sciences, The College at Brockport, 350 Newcampus Lane, Brockport, NY 14420

208-18 62 IMPLICATIONS OF ERUPTIVE, EROSIVE, AND DEPOSITIONAL PROCESSES PRIOR TO A SUPER ERUPTION IN THE SOUTHERN BLACK MOUNTAINS

LEE, Jacob W., Earth and Environmental Sciences, University of Kentucky, Lexington, KY 40506, jacob.w.lee2@uky.edu, WILLIAMS, Scott H., Geology, Occidental College, 1600 Campus Rd. Box 2182, Los Angeles, CA 90041, FLANSBURG, Megan, Department of Geology, College of William & Mary, Williamsburg, VA 23185, BECKENS, Holland, Department of Geology, University of Vermont, Burlington, VT 05405, MILLER, Calvin F., Earth and Environmental Sciences, Vanderbilt University, Nashville, TN 37235, LANG, N.P., Department of Geology, Mercyhurst University, Erie, PA 16546, and CRIBB, J. Warner, Geosciences, Middle Tennessee State Univ, PO Box 9, Murfreesboro, TN 37132

208-19 63 TECTONIC SIGNIFICANCE OF MYLONITES IN THE LITTLE BUCKSKIN MOUNTAINS, WEST-CENTRAL ARIZONA: INSIGHTS FROM QUARTZ MICROSTRUCTURAL DATA

GROSS, Caroline E., Atmospheric, Oceanic, and Earth Sciences, George Mason University, 4400 University Drive, Fairfax, VA 22030, chenrygr@gmu.edu, SINGLETON, John, Atmospheric, Oceanic, and Earth Sciences, George Mason University, 4400 University Drive, Mail Stop 5F2, Fairfax, VA 22030, and WONG, Martin S., Department of Geology, Colgate University, Hamilton, NY 13346

208-20 64 USING SCANNING ELECTRON MICROSCOPY TO CATALOG MINERALS FROM THE TRANS-PECOS MAGMATIC PROVINCE

GRAVES, Shawna Marie, Sul Ross State University, East Highway 90, Alpine, TX 79832, sgra6282@sulross.edu and URBANCZYK, Kevin M., Department of Biological, Geological and Physical Sciences, Sul Ross State Univ, Box C-139, Alpine, TX 79832

208-21 65 FACIES STACKING PATTERN WITHIN THE ORDOVICIAN RED RIVER FORMATION, WILLISTON BASIN: A CASE STUDY FROM EASTERN NORTH DAKOTA HUSINEC, Antun and **BARNS, Joseph P.**, Geology Department, St. Lawrence University, 23 Romoda Drive, Canton, NY 13617, jpbarn11@stlawu.edu 208-22 66 <u>COMPARISON OF TWO SUSPENDED SEDIMENT ANALYSIS METHODS</u> COLAIANNE, Nicholas J.¹, BARRETTE, Andrew J.¹, WAMPLER, Peter J.², and

KNEESHAW, Tara³, (1) Geology, Grand Valley State University, 1 Campus Dr, Padnos 118, Allendale, MI 49401, colaiann@mail.gvsu.edu, (2) Geology Department, Grand Valley State University, 1 Campus Drive, Allendale, MI 49401, (3) Geology Department, Grand Valley State University, Allendale, MI 49401

208-23 67 WATER CHEMISTRY OF A HEMLOCK FOREST IN THE ROBERT V. RIDDELL STATE PARK, NY

REDDER, Brian W.¹, BALNIS, Joseph M.¹, and BALOGH-BRUNSTAD, Zsuzsanna², (1) Department of Chemistry, Hartwick College, 1 Hartwick Drive, Oneonta, NY 13820, redderb@hartwick.edu, (2) Department of Geology and Environmental Sciences, Hartwick College, Oneonta, NY 13820

208-24 68 UNDERSTANDING PRE-SUPERERUPTION MAGMATIC PROCESSES: MULTIPLE VARIETIES OF ENCLAVES IN PRE-PEACH SPRING TUFF TRACHYTE LAVAS

RENTZ, Shannon P.¹, RICE, Stacey A.², CRIBB, J. Warner¹, CLAIBORNE, Lily L.³, and MILLER, Calvin F.³, (1) Geosciences, Middle Tennessee State University, Murfreesboro, TN 37132, shannoneporter@hotmail.com, (2) Geosciences, Stony Brook University, 38 Lenox Street, Lindenhurst, NY 11757, (3) Earth and Environmental Sciences, Vanderbilt University, Nashville, TN 37235

<u>208-25</u> 69 <u>PARTICLE IMAGE/TRACKING VELOCIMETRY AS AN EFFECTIVE, LOW-</u> <u>COST SOLUTION FOR THE STUDY OF SMALL-SCALE HYDRODYNAMIC PROCESSES</u> <u>IN GEOLOGY</u>

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208-26 70 UNDERSTANDING THE ROLE OF STRIKE-SLIP FAULTING AS OCEANS CLOSE, NORTH CENTRAL TURKEY

PETTIT, Bridget S., Geological Sciences, The University of Texas at Austin, 7 Las Flores, Aliso Viejo, CA 92656, bridgetpettit@utexas.edu, CATLOS, Elizabeth J., Geological Sciences, University of Texas at Austin, Jackson School of Geosciences, Austin, TX 78712, and ELLIOTT, Brent, The Bureau of Economic Geology, The University of Texas at Austin, University Station Box X, Austin, TX 78713

208-27 71 FOSSIL CORAL FROM THE MISSISSIPPIAN REDWALL LIMESTONE IN THE BEAVER DAM MOUNTAINS, WASHINGTON COUNTY, UTAH

MCLEMORE, Devin M., Physical Science, Southern Utah University, 351 W. University Blvd, Cedar City, UT 84720, mclemoredev@gmail.com and HARGRAVE, Jennifer E., Physical Science, Southern Utah University, Cedar City, UT 84720 208-28 72 NEW U-PB ZIRCON AGES FROM PLUTONS OF THE MT. WADDINGTON REGION, SOUTHERN COAST MOUNTAINS BATHOLITH, BRITISH COLUMBIA CHISOM, Charles¹, CECIL, M. Robinson², RUSMORE, Margaret E.¹, and WOODSWORTH,

Glenn J.³, (1) Geology, Occidental College, Los Angeles, CA 90041, chisom@oxy.edu, (2) Department of Geological Sciences, California State University Northridge, 18111 Nordhoff St, Northridge, CA 91130-8266, (3) Geol Survey of Canada, 101-605 Robson St, Vancouver, BC V6B 5J3

208-29 73 DESCRIPTION OF A GARNET-BEARING GRANOFELS FOUND AT WEST CHICAGO CREEK, COLORADO

<u>LUPO, Nicholas S.</u>, Department of Geological Sciences, SUNY Geneseo, 1 College Circle, Geneseo, NY 11454, nsl2@geneseo.edu and FARTHING, Dori J., Geological Sciences, SUNY-Geneseo, Geneseo, NY 14454

208-30 74 PATHWAYS OF NITRATE INTO THE KALAMAZOO RIVER: A PHYSICAL, CHEMICAL AND MICROBIOLOGICAL STUDY

HEERSPINK, Brent P., Department of Geological Sciences, Albion College, 611 E Porter, Albion, MI 49224, BPH11@albion.edu and LINCOLN, Timothy N., Department of Geological Sciences, Albion College, 611 E Porter St, Albion, MI 49224

208-31 75 CARBONATE δ^{13} C AND PRELIMINARY CONODONT δ^{18} O FROM THE UPPER STONES RIVER FORMATION AND LOWER NASHVILLE FORMATION (LATE ORDOVICIAN) NEAR GADSDEN, AL

LAW, Stacey E., Department of Geology and Environmental Science, James Madison University, Harrisonburg, VA 22807, lawse@dukes.jmu.edu, QUINTON, Page C., Department of Geological Sciences, The University of Missouri-Columbia, University of Missouri, 101 Geology Building, Columbia, MO 65211, LESLIE, Stephen A., Geology and Environmental Sciences, James Madison University, MSC 6903, Harrisonburg, VA 22807, MACLEOD, Kenneth G., Department of Geological Sciences, University of Missouri-Columbia, Columbia, MO 65211, and HERRMANN, Achim D., Geology & Geophysics, Louisiana State University, Baton Rouge, LA 70803

208-32 76 A TEXTURAL AND GEOCHEMICAL ANALYSIS OF GOAT ROCK DOME XENOLITHS

BERTOLETT, Elisabeth M., Geosciences, Denison University, Granville, OH 43023, bertol_e1@denison.edu, DEERING, Chad D., Geological and Mining Engineering and Sciences, Michigan Technologial University, Houghton, MI 49931-1295, PRIOR, David J., Geology, University of Otago, Dunedin, 9054, New Zealand, and GRAVLEY, Darren M., Geological Sciences, University of Canterbury, Christchurch, 8140, New Zealand 208-33 77 SYNEXTENSIONAL SEDIMENTATION IN THE HANGING WALL OF THE BUCKSKIN DETACHMENT FAULT, WEST-CENTRAL ARIZONA: EVIDENCE FOR ACCELERATED EXTENSION RATES IN THE MIDDLE MIOCENE?

HATFIELD, Marques E.¹, SINGLETON, John², BIRD, Emily², and PRIOR, Michael G.³, (1) George Mason University, 10483 Malone Court, Fairfax, VA 22032,

marques.hatfield@gmail.com, (2) Atmospheric, Oceanic, and Earth Sciences, George Mason University, 4400 University Drive, Mail Stop 5F2, Fairfax, VA 22030, (3) Jackson School of Geosciences, University of Texas at Austin, Jackson School of Geosciences1 University Station C9000, Austin, TX 78712-0254

 $\frac{208-34}{8} \frac{78}{A} \frac{A}{COMPARISON OF TWO COMMON CONTINUOUS FLOW IRMS}{APPROACHES ON THE ISOPRIME MULTIFLOW AND THE ISOPRIME PYROCUBE FOR$ $<math display="block">\frac{\delta^{13}C}{\delta^{13}C} \frac{13}{V} \frac{13}{V}$

EUKER, Brandon C.¹, LAW, Stacey E.¹, MEIERDIERCKS, Kathleen Anne¹, BAEDKE, Steve J.², LESLIE, Stephen A.³, and HERRMANN, Achim D.⁴, (1) Department of Geology and Environmental Science, James Madison University, Harrisonburg, VA 22807, eukerbc@dukes.jmu.edu, (2) Department of Geology and Environmental Science, James Madison University, MSC 6903, Harrisonburg, VA 22807, (3) Geology and Environmental Sciences, James Madison University, MSC 6903, Harrisonburg, VA 22807, (4) Geology & Geophysics, Louisiana State University, Baton Rouge, LA 70803

208-35 79 SEASONAL CHLORIDE BEHAVIOR IN THE GREAT MIAMI RIVER, OHIO STARR, Lindsay, Geology, Wittenberg University, PO Box 125, Springfield, OH 45501, s14.lstarr@exchange.wittenberg.edu and FORTNER, Sarah K., Department of Geology, Wittenberg University, Springfield, OH 45501

208-36 80 A SCHEME FOR EVALUATING THE IMPACT OF DEVELOPMENT ON THE GEOMORPHIC AND ECOLOGIC PROCESSES OF LAKE MICHIGAN'S COASTAL DUNES

PLOWMAN, Jacquelyn K.¹, DEVRIES-ZIMMERMAN, Suzanne J.¹, DAVIS, Charles F. III², and HANSEN, Edward C.¹, (1) Geological and Environmental Sciences Department, Hope College, 35 E. 12th Street, Holland, MI 49423, jackie.plowman@hope.edu, (2) Davis Associates Architects & Consultants, Inc, 53 West Jackson Boulevard, Chicago, IL 60604

208-37 81 THE HARPETH RIVER FAULT ZONE, CENTRAL TENNESSEE

YOUNG, Shaunna D., Earth Science Education, Radford University, 2421 3rd St, Radford, VA 24141, syoung22@radford.edu, CAMACHO, Joe, National Park Service, 427 Palm Place, Pomona, CA 91767, and ABOLINS, Mark, Department of Geosciences, Middle Tennessee State University, Box 9, Murfreesboro, TN 37132

208-38 82 REVEALING THE HIDDEN PAST OF LEGACY SEDIMENTS FROM MIDDLE CREEK LAKE, SELINSGROVE, PA

SEAMAN, Kyle A., ELICK, Jennifer M., and HOLT, Jack R., Earth and Environmental Sciences, Susquehanna University, 514 University Avenue, Natural Sciences Center 111C, Selinsgrove, PA 17870, seaman@susqu.edu

208-39 83 PHYSIOLOGICAL AND ISOTOPIC RESPONSES OF THE CORAL STYLOPHORA PISTILLATA TO FUTURE COASTAL OCEAN CONDITIONS

SAUP, Casey, School of Earth Sciences, The Ohio State University, 2915 Honeysuckle Lane, Hilliard, OH 43026, saup.4@osu.edu, GROTTOLI, Andréa, School of Earth Sciences, The Ohio State University, 125 South Oval Mall, Columbus, OH 43210, FERRIER-PAGÈS, Christine, Centre Scientifique de Monaco, 8 Quai Antoine Ier, Mc, 98000, Monaco, and MATSUI, Yohei, School of Earth Sciences, The Ohio State University, 275 Mendenhall Laboratory, 125 South Oval Mall, Columbus, OH 43210

208-40 84 SOIL LEAD DISTRIBUTION AT A TWO SITES: IMPLICATIONS FOR LEAD SOIL OUTREACH IN THE PROMISE NEIGHBORHOOD, SPRINGFIELD, OH WILSON, Elizabeth L.¹, BRESLIN, Kyle D.¹, MARVELLE, Keith A.¹, THACKER, Tyler N.¹, FORTNER, Sarah K.¹, and RITTER, John B.², (1) Environmental Science, Wittenberg University, Springfield, OH 45501, s14.ewilson@wittenberg.edu, (2) Geology, Wittenberg University, P.O. Box 720, Springfield, OH 45501

208-41 85 MIOCENE STRUCTURAL EVOLUTION OF THE BUCKSKIN DETACHMENT FAULT ZONE, WEST-CENTRAL ARIZONA: INSIGHTS FROM GEOLOGIC MAPPING IN THE SOUTHERN LINCOLN RANCH BASIN

BIRD, Emily¹, SINGLETON, John¹, and HATFIELD, Marques E.², (1) Atmospheric, Oceanic, and Earth Sciences, George Mason University, 4400 University Drive, Mail Stop 5F2, Fairfax, VA 22030, ejenkin4@gmu.edu, (2) Atmospheric, Oceanic, and Earth Sciences, George Mason University, 4400 University Dr, Fairfax, VA 22030

208-42 86 MINERALOGY OF THE LUNA VISTA SILL, BREWSTER COUNTRY, TEXAS CAYLOR, Sofia, Biological, Geological and Physical Sciences, Sul Ross State University, Box C-139, SRSU, Alpine, TX 79830, sofia.caylor@gmail.com and URBANCZYK, Kevin M., Department of Biological, Geological and Physical Sciences, Sul Ross State Univ, Box C-139, Alpine, TX 79832

208-43 87 POTENTIAL INFLUENCE OF CLIMATE ON FLOOD RECURRENCE IN THE WINOOSKI RIVER WATERSHED, VERMONT

BARNEY, Grant and NOLL, Mark R., Department of the Earth Sciences, SUNY College at Brockport, 350 New Campus Dr, Brockport, NY 14420, gbarn1@brockport.edu

208-44 88 INFLUENCE OF PRECIPITATION PATTERNS ON SURFACE WATER AND GROUNDWATER IN THE SANDY CREEK WATERSHED, NEW YORK FRANCIS, Skylar J. and NOLL, Mark R., Department of the Earth Sciences, SUNY College at Brockport, 350 New Campus Dr, Brockport, NY 14420, sfran5@u.brockport.edu

208-45 89 EVIDENCE FROM JOINT SETS AND SHEAR ZONES IN EASTERN NEW YORK FOR TWO OROGENIC EVENTS AND THE WESTWARD DISPLACEMENT OF THE CATSKILL MOUNTAINS ALONG A DECOLLEMENT

LUBICICH, Emily J., CRADDOCK, Tristan, WERKHOVEN, Andres R., and VOLLMER, Frederick W., Geology Department, SUNY New Paltz, 1 Hawk Drive, New Paltz, NY 12561, e.lubicich@gmail.com

208-46 90 DEVELOPMENT OF A RAPID FIELD-PORTABLE SOIL PHOSPHORUS ANALYSIS METHOD AND APPLICATION TO ARCHAEOLOGICAL SITES

<u>SMITH, Nicholas</u>¹, KREPPEL, Elizabeth¹, MITCHELL, Aimee², and NOLL, Mark R.¹, (1) Department of the Earth Sciences, SUNY College at Brockport, 350 New Campus Dr, Brockport, NY 14420, nsmit4@brockport.edu, (2) Department of Anthropology, SUNY at Buffalo, 380 MFAC-Ellicott Complex, Buffalo, NY 14261

208-47 91 EVALUATION OF FLOOD RECURRENCE IN THE CHEMUNG RIVER WATERSHED, NEW YORK

<u>GROH, Katelynn</u> and NOLL, Mark R., Department of the Earth Sciences, SUNY College at Brockport, 350 New Campus Dr, Brockport, NY 14420, kgroh1@brockport.edu

208-48 92 PROVENANCE OF LATE JURASSIC TO LATE CRETACEOUS SANDSTONES IN SOUTHWEST OREGON

RIVAS, Jonathan¹, MCCLAUGHRY, Jason D.², and SCHWARTZ, Joshua J.¹, (1) Department of Geological Sciences, California State University Northridge, 18111 Nordhoff Street, Northridge, CA 91330, jonathan.rivas.726@my.csun.edu, (2) Oregon Department of Geology and Mineral Industries, 1995 3rd Street, Suite 130, Baker City, OR 97814

208-49 93 CO₂ FLUX FROM A SINGLE MAPPED SOIL UNIT UNDER DIFFERENT MANAGEMENT PRACTICES

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208-50 94 VARIATIONS IN GROUNDWATER AND SURFACE WATER CHEMISTRY IN THE SANDY CREEK (NY) WATERSHED: NATURAL OR ANTHROPOGENIC IMPACTS **COWLING, Owen** and NOLL, Mark R., Department of the Earth Sciences, SUNY College at Brockport, 350 New Campus Dr, Brockport, NY 14420, ocow1@brockport.edu

208-51 95 DISSOLUTION OF TREMOLITE BY ARTIFICIAL LYSOSOMAL FLUIDS SEIDERMAN, Benjamin and NOLL, Mark R., Department of the Earth Sciences, SUNY College at Brockport, 350 New Campus Dr, Brockport, NY 14420, bseid3@brockport.edu

208-52 96 INVESTIGATION OF SUBFOSSIL TREES AT IRELY LAKE, OLYMPIC NATIONAL PARK, WASHINGTON, USA

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