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SIGMA GAMMA EPSILON STUDENT RESEARCH POSTER SESSION, GEOLOGICAL SOCIETY OF AMERICA MEETING 2013, DENVER, COLORADO

Paula Even

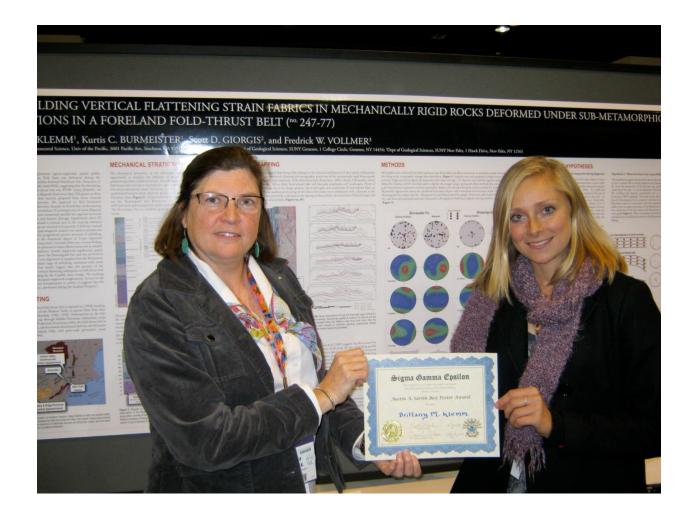
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ABSTRACT

The 2013 Sigma Gamma Epsilon Undergraduate Research (Poster Session) took place during the 2013 GSA Conference in Denver, CO. on Tuesday, 29 October 2013: 9:00 a.m. - 6:30 p.m. (Authors were present from 2 to 4 p.m. and 5:00 to 6:30 p.m.). Ninety-eight posters were presented. Sigma Gamma Epsilon awarded the Austin A. Sartin Best Poster Award to Brittney Klemm, a member of Eta Upsilon Chapter at the University of the Pacific in Stockton, CA. Sebastian Dirringer, a member of Theta Beta Chapter at the State University of New York in New Paltz, NY, was awarded the National Council Best Poster Award.

KEY WORDS: SGE Austin A. Sartin award, SGE National Council award

2013 Austin A. Sartin Best Poster Award



Sigma Gamma Epsilon President Erika Elswick presents Brittany Klemm with the 2013 Austin A. Sartin Best Poster Award. Brittney is a member of Eta Upsilon Chapter at the University of the Pacific in Stockton, CA. Her winning research poster was titled POST-FOLDING VERTICAL FLATTENING STRAIN FABRICS IN MECHANICALLY RIGID ROCKS DEFORMED UNDER SUB-METAMORPHIC CONDITIONS IN A FORELAND FOLD-THRUST BELT. Her co-authors were Kurtis Burmeister, Scott Giorgis and Frederick Vollmer.

2013 National Council Best Poster Award



Sigma Gamma Epsilon President Erika Elswick presents Sebastian Dirringer with the 2013 National Council Best Poster Award. Sebastian is a member of Theta Beta Chapter at the State University of New York in New Paltz, NY. His winning research poster was titled <u>A TEST OF THE ANALYTICAL WELLMAN AND MEAN POLYGON MOMENT ELLIPSE METHODS OF STRAIN ANALYSIS USING A SAMPLE OF DEFORMED ORDOVICIAN GRAPTOLIFEROUS SLATE FROM THE TACONIC OROGEN, NEW YORK Vollmer was a co-author on with Dirringer.</u>

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<u>PORMATION</u>, <u>BIG HORN AND POWDER RIVER BASINS</u>, <u>WYOMING</u> MALONE, David H.¹, CRADDOCK, John P.², and <u>HOWELL</u>, <u>Brett A.</u>¹, (1) Department of Geography-Geology, Illinois State University, Campus Box 4400, Normal, IL 61761, bahowel@ilstu.edu, (2) Geology Department, Macalester College, 1600 Grand Avenue, St. Paul, MN 55105

AGE AND PROVENANCE OF EOCENE VOLCANIC ROCKS AT HOMINY PEAK, NORTHERN TETON RANGE, WY MUSTAIN, Monica, Illinois State University, Normal, IL 61761, mrmusta@ilstu.edu, MALONE, David, Geography-Geology, Illinois State Univ, Campus Box 4400, Normal, IL 61761-4400, and CRADDOCK, John P., Geology Department, Macalester College, 1600 Grand Avenue, St. Paul, MN 55105

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CAN CARBON ISOTOPES CONSTRAIN HIGH-RESOLUTION STRATIGRAPHY OF ORDOVICIAN SHALLOW WATER FACIES IN THE CINCINNATI, OHIO REGION? FREEMAN, Rebecca L., Earth & Environmental Sciences Department, University of Kentucky, Lexington, KY 40506, FISCHER, Sarah, Department of Geosciences, Indiana University-Purdue University Fort Wayne, 2102 Coliseum Boulevard, Fort Wayne, IN 46805-1499, sarieface@gmail.com, DATTILO, Benjamin F., Department of Geosciences, Indiana University Purdue University, Fort Wayne, IN 46805, SCHRAMM, Thomas J., Department of Geology and Geophysics, Louisiana State University, E235 Howe-Russell Geoscience Complex, Baton Rouge, LA 70803, BRETT, Carlton E., Department of Geology, University of Cincinnati, Cincinnati, OH 45221-0013, MOSSER, Sasha L., Geology, Indiana University Purdue University Fort Wayne, 2101 E. Coliseum Blvd, Fort Wayne, IN 46805, BLAIR, Michael, Dept. of Geosciences, Indiana University Purdue University Fort Wayne, 2102 Coliseum Blvd, Fort

Wayne, IN 46805-1499, and CHAKRABORTY, Suvankar, Department of Earth and Environmental Sciences, University of Kentucky, Lexington, KY 40506

SO YOU MEASURED CHEMICAL PARAMETERS IN A WELL FIELD AND SO WHAT? BUDD, Sarah K., Geosciences, Indiana Purdue University Fort Wayne (IPFW), 2101 E. Coliseum Blvd, Fort Wayne, IN 46805-1499, buddsk01@students.ipfw.edu, LAFAUCIA, Tammy, Department of Geosciences, Indiana Purdue University Fort Wayne (IPFW), 2101 E. Coliseum Blvd, Fort Wayne, IN 46805-1499, and ISIORHO, S.A., Geosciences Dept, Indiana University - Purdue University Fort Wayne (IPFW), 2101 E. Coliseum Blvd, Fort Wayne, IN 46805-1499

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PLANKTIC FORAMINIFERA BIOSTRATIGRAPHY OF CORE MD02-2560, KANE SPUR, GULF OF MEXICO SCHMITT, Erin, Geology and Environmental Science, James Madison University, Harrisonburg, VA 22807, schmitee@dukes.jmu.edu and ST. JOHN, Kristen E., Geology and Environmental Science, James Madison University, MSC 6903, Harrisonburg, VA 28608

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MICROFACIES, MINERALOGY, AND STABLE-ISOTOPE RECORD OF THE EAST BEACH LAGOON SEDIMENT, SAN SALVADOR ISLAND, BAHAMAS LOREE, Peter E., Geology, St. Lawrence University, 23 Romoda Dr, Canton, NY 13617, pelore10@stlawu.edu, MURPHY, John T. Jr, Geology, Binghamton University, State University of New York, PO Box 6000, Binghamton, NY 13902-6000, and HUSINEC, Antun, Geology Department, St. Lawrence University, 23 Romoda Drive, Canton, NY 13617

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KNOB BROOK, ADIRONDACK STATE PARK, NY: A STUDY IN THE INTERACTION OF A SLAG PILE AND ITS ENVIRONMENT BASED ON SEDIMENT LOAD, WATER CHEMISTRY, AND SOIL PH O'SHAUGHNESSY, Kelly and FARTHING, Dori J., Department of Geological Sciences, SUNY Geneseo, 1 College Circle, Geneseo, NY 14454, kao15@geneseo.edu

PYRITIZATION OF A STIGMARIA FROM THE BOSS POINT FORMATION (PENNSYLVANIAN), NOVA SCOTIA WAGNER, Erin E. 1, RYGEL, Michael C. 1, HEBERT, Brian L. 2, and O'BRIEN, Neal R. 1, (1) Department of Geology, State University of New York, College at Potsdam, 44 Pierrepont Ave, Potsdam, NY 13676, wagneree 193@potsdam.edu, (2) 775 Downing Cove Road, Joggins, NS B0L1A0, Canada

PRODUCTION OF A PHYSICAL MODEL OF THE CENTRALIA COAL FIRE NEUBAUER, Rebecca, Earth and Environmental Sciences, Susquehanna University, 514 University Ave, Selinsgrove, PA 17870, elick@susqu.edu and ELICK, Jennifer M., Earth and Environmental Sciences, Susquehanna University, 514 University Avenue, Fisher Science, Rm 27, Selinsgrove, PA 17870

THE FORMATION OF GLACIALLY STRIATED PAVEMENTS IN WITMARSUM, BRAZIL SUMPTION, Grace L., Geology and Geological Engineering, South Dakota School of Mines and Technology, Rapid City, SD 57701, grace.sumption@mines.sdsmt.edu, ROCHA-CAMPOS, A.C., Instituto des Geosciências, Universidade de São Paulo, Sao Paulo, 05450-001, Brazil, and COTTER, James F.P., Geology Discipline, University of Minnesota, Morris, 600 East 4th Street, Morris, MN 56267

DEPOSITIONAL ENVIRONMENT OF CARBONIFEROUS GLACIOGENIC CLAY DEPOSITS, WITMARSUM, PARANA STATE, BRAZIL JACKSON, Courtney C.¹, ANDERSON FOLNAGY, Heidi², BACCI, D.C.³, ROCHA-CAMPOS, A.C.³, and COTTER, James F.P.⁴, (1) Geography Department, The Pennsylvania State University, University Park, PA 16802, coj5074@psu.edu, (2) University of Montana Western, Dillon, MT 59725, (3) Instituto des Geosciências, Universidade de São Paulo, Sao Paulo, 05450-001, Brazil, (4) Geology Discipline, University of Minnesota, Morris, 600 East 4th Street, Morris, MN 56267

PURGATOIRE RIVER WATER QUALITY: A TWO-YEAR COLLEGE UNDERGRADUATE RESEARCH PROJECT FROM SOUTHERN COLORADO BARANDIARAN, Alfonzo J., CAHOONE, Nathan, and KRUMM, Debra K., Math-Science, Trinidad State Junior College, 600 Prospect Street, Trinidad, CO 81082, abarandiaran@student.cccs.edu

PROVENANCE STUDY OF THE GOOSE ROCK CONGLOMERATE, CENTRAL OR: CHARACTERIZING THE MARGIN OF THE CRETACEOUS OCHOCO BASIN HOPSON, Heath, CANDUSSO, Nicholis, DODSON, Travis, and SURPLESS, Kathleen D., Geosciences, Trinity University, One Trinity Place, San Antonio, TX 78212, hhopson@trinity.edu

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EXPLORING MICROBIAL PRESERVATION IN IRON OXIDES WITH COMPUTED TOMOGRAPHY AND SCANNING ELECTRON MICROSCOPY PHAN, Athena T. , WILLIAMS, Amy J. , and SUMNER, D.Y. , (1) Geology, University of California, Davis, One Shields Avenue, Davis, CA 95616, aph@ucdavis.edu, (2) Geology, University of California, Davis, CA 95616

A GEOMORPHIC ASSESSMENT OF FLOOD HAZARDS OF THE RISHI VALLEY IN THE TRANSHIMALAYA, LADAKH, NORTHERN INDIA SCHWALBACH, Cameron E., ARKLE, Jeanette C., THOMAS, Rachel, DILLINGHAM, Jacob, and DIETSCH, Craig, Department of Geology, University of Cincinnati, ML 013, Cincinnati, OH 45221-0013, schwalce@mail.uc.edu

CHAOTIC ADVECTION AND CONTAMINANT DEGRADATION DURING ENGINEERED INJECTION AND EXTRACTION IN HETEROGENEOUS POROUS MEDIA ACCARDO, Mathew, Department of Civil, Environmental, and Architectural Engineering, University of Colorado Boulder, 1111 Engineering Dr, ECOT 441, UCB 428, Boulder, CO 80309, mathew.accardo@colorado.edu, NEUPAUER, Roseanna M., Civil, Environmental, and Architectural Engineering, University of Colorado, 1111 Engineering Dr, ECOT 441, UCB 428, Boulder, CO 80309, MEISS, James D., Department of Applied Mathematics, University of Colorado Boulder, 1111 Engineering Dr, UCB 526, Boulder, CO 80309, and MAYS, David C., Department of Civil Engineering, University of Colorado Denver, Campus Box 113, PO Box 173364, Denver, CO 80217-3364

PETROGRAPHY AND GEOCHEMISTRY OF THE BAIYANGHE VOLCANIC-HOSTED BE-U DEPOSIT, XINJIANG AUTONOMOUS REGION, NW CHINA SHABAGA, Brandi¹, FAYEK, Mostafa², WANG, Guo³, and WEN, Zhanjiu³, (1) Geological Sciences, University of Manitoba, 240 Wallace Bldg, Winnipeg, MB R3T2N2, Canada, brandishabaga@gmail.com, (2) Geological Sciences, University of Manitoba, 240 Wallace Bldg, 125 Dysart Rd, Winnipeg, MB R3T2N2, Canada, (3) Geological Party No. 216, China National Nuclear Corp. (CNNC), P.O Box 84, BeiJinNan Road, Urumqi, 830011, China

SEDIMENTOLOGY AND STRATIGRAPHY OF THE EOCENE COCKFIELD FORMATION AT MEEMAN-SHELBY FOREST STATE PARK, WESTERN TENNESSEE FERREIRA, Lauren A., Department of Earth sciences, University of Memphis, 201 Johnson Hall, Memphis, TN 38152, Ifrreira@memphis.edu, LARSEN, Daniel, Department of Earth Sciences, University of Memphis, Johnson Hall, Rm 1, Memphis, TN 38152, and GALLO, Haley G., Department of Earth Sciences, University of Memphis, Johnson Hall, Rm 206, Memphis, TN 38152

ANALYSIS OF KAOLINITE IN THE DEVONIAN AGE FURNAS FORMATION WITMARSUM, PARANA STATE, BRAZIL: A PALEOZOIC ANALOG FOR THE PIPESTONE UNIT WOOLDRIDGE, Sayge C., Geology Discipline, University of Minnesota Morris, 600 East 4th Street, Morris, MN 56267, woold008@morris.umn.edu and COTTER, James F.P., Geology Discipline, University of Minnesota, Morris, 600 East 4th Street, Morris, MN 56267

TERRESTRIAL LASER SCANNING (TLS) AS A TOOL TO DIFFERENTIATE AND CORRELATE UNCONSOLIDATED GLACIALLY DERIVED SEDIMENTS, YELLOW MEDICINE COUNTY, MINNEOSTA CARNICLE, Melissa M., Division of Math and Science, Geology Discipline, University of Minnesota Morris, 600 East 4th Street, Morris, MN 56267, carn0083@morris.umn.edu and COTTER, James F.P., Geology Discipline, University of Minnesota, Morris, 600 East 4th Street, Morris, MN 56267

ANALYSIS OF CARBONIFEROUS GLACIAL FURROWS ON DEVONIAN BEDROCK, PARANA STATE, BRAZIL; EVIDENCE FOR PALEO-TOPOGRAPHIC INFLUENCE ON FLOW TARBELL, Chelsea, Geology Discipline, University of Minnesota, Morris, Morris, MN 56267, tarb0016@morris.umn.edu, ROCHA-CAMPOS, A.C., Instituto des Geosciências, Universidade de São Paulo, Sao Paulo, 05450-001, Brazil, and COTTER, James F.P., Geology Discipline, University of Minnesota, Morris, 600 East 4th Street, Morris, MN 56267

ANALYSIS OF ITARARÈ SUBGROUP CLAYS EXPOSED IN WITMARSUM, PARANA STATE, BRAZIL SCARESHAWK, Kelsey¹, ANDERSON FOLNAGY, Heidi², BACCI, D.C.³, ROCHA-CAMPOS, A.C.³, and COTTER, James F.P.⁴, (1) Geology Discipline, University of Minnesota, Morris, MN 56267, scare004@morris.umn.edu, (2) University of Montana Western, Dillon, MT 59725, (3) Instituto des Geosciências, Universidade de São Paulo, Sao Paulo, 05450-001, Brazil, (4) Geology Discipline, University of Minnesota, Morris, 600 East 4th Street, Morris, MN 56267

SYNSEDIMENTARY LOW ANGLE NORMAL DETACHMENT IN WHITE RIVER GROUP STRATA OF NW SOUTH DAKOTA FERGUSON, Sarah, GUIRA, Moussa, OLREE, Elizabeth, ZOU, Zhili, and MAHER, Harmon Jr, Geography and Geology, University of Nebraska at Omaha, Omaha, NE 68182-0199, slferguson@unomaha.edu

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RELATIONSHIP BETWEEN MICROBIAL COMMUNITIES AND METAL MOBILITY IN URBAN WATERSHEDS, EASTERN SAN FRANCISCO BAY AREA, CA TEAGUE, Kathryn E.¹, RADEMACHER, Laura K.¹, LANG, JM², and FAUL, Kristina L.³, (1) Department of Earth and Environmental Sciences, University of the Pacific, 3601 Pacific Avenue, Stockton, CA 95211, k_teague1@u.pacific.edu, (2) Genome Center, University of California Davis, 1 Shields Avenue, Davis, CA 95616, (3) Environmental Sciences Program/Department of Chemistry, Mills College, 5000 MacArthur Blvd, Oakland, CA 94613

POST-FOLDING VERTICAL FLATTENING STRAIN FABRICS IN MECHANICALLY RIGID ROCKS DEFORMED UNDER SUB-METAMORPHIC CONDITIONS IN A FORELAND FOLD-THRUST BELT **KLEMM, Brittany M.**¹, BURMEISTER, Kurtis C.¹, GIORGIS, Scott D.², and VOLLMER, Frederick W.³, (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 Geological Sciences, State University of New York at Geneseo, 1 College Circle, Geneseo, NY 14454, (3) Geology, SUNY New Paltz, New Paltz, NY 12561

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ANALYSIS OF METAL POLLUTANTS IN SAN MARTIN LAKE CONTRERAS, Mara¹, LAW, Joshuah D.², DELGADO, Bianca², and HEISE, Elizabeth A.², (1) Department of Environmental Engineering, Texas A&M University - Kingsville, Kingsville, TX 78363, (2) Chemistry and Environmental Sciences, University of Texas at Brownsville, One West University Boulevard, Brownsville, TX 78520, joshuahdavid@live.com

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A STUDY OF HEAVY MINERALS FROM GRATER OF DIAMONDS STATE PARK, MURFREESBORO, ARKANSAS GARGAN, Christopher R. and HOLLABAUGH, Curtis L., Geosciences, University of West Georgia, Carrollton, GA 30118, cgargan1@my.westga.edu

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MINERALOGIC AND TEXTURAL COMPARISON OF TWO SAMPLES OF AMPHIBOLITE FROM CARROLL COUNTY, WESTERN GEORGIA MASSEY, Rachel and BERG, Christopher A., Department of Geosciences, University of West Georgia, 1601 Maple Street, Carrollton, GA 30118, rmassey4@my.westga.edu

AN ASSESSMENT OF SHORELINE CHANGE FOR SMALL ASSOCIATED ISLANDS OF PUERTO RICO AND THE UNITED STATES VIRGIN ISLANDS RUNYAN, Ryann M. JACKSON, Chester W. Jr², BUSH, David M. PERISON-PARRISH, Elizabeth M. SIEMER, Kyle W. LLERANDI-ROMÁN, Pablo A. and NEAL, William J. (1) Department of Geosciences, University of West Georgia, Carrollton, GA 30118, rrunyan1@my.westga.edu, (2)

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A COASTAL VULNERABILITY INDEX FOR SMALL ISLANDS OF PUERTO RICO AND THE UNITED STATES VIRGIN ISLANDS PERISON-PARRISH, Elizabeth M. JACKSON, Chester W. Jr², RUNYAN, Ryann M. BUSH, David M. SIEMER, Kyle W. LLERANDI-ROMÁN, Pablo A. And NEAL, William J. (1) Geosciences, University of West Georgia, Carrollton, GA 30118, eperiso1@my.westga.edu, (2) Department of Geology and Geography, Georgia Southern University, Statesboro, GA 30460, (3) Department of Geosciences, University of West Georgia, Carrollton, GA 30118, (4) Department of Environmental Science, University of Toledo, 2801 W. Bancroft, Toledo, OH 43606, (5) Geology Dept, Grand Valley State University, 118 Padnos Hall of Science, One Campus Drive, Allendale, MI 49401-9403, (6) Department of Geology, Grand Valley State University, Allendale, MI 49401

TRACKING GROWTH EVOLUTION IN CONTEMPORANEOUS HYDROTHERMAL QUARTZ: HIGH RESOLUTION FTIR CHARACTERIZATION OF CRYSTALS SAMPLED AT WINDGÄLLENHÜTTE, SWITZERLAND WIPPERFURTH, Scott A., LINDBLAD, Todd A., JOHNSON, Aleisha C., and IHINGER, Phillip D., Department of Geology, University of Wisconsin-Eau Claire, 105 Garfield Ave, Eau Claire, WI 54701, wippersa@uwec.edu

THE CHARLES DARWIN RESEARCH STATION, GALÁPAGOS: RECOMMENDATIONS FOR IMPROVING FINANCIAL STABILITY THROUGH PUBLIC OUTREACH SMITH, Joel H., Departments of Geology and Biology, University of Wisconsin-Eau Claire, Phillips Science Hall 157, Eau Claire, WI 54702, smithjh@uwec.edu, FREUND, Deborah A., Department of Biology, University of Wisconsin-Eau Claire, Phillips Science Hall 342, Eau Claire, WI 54702, and CLARK, Scott K., Department of Geology, University of Wisconsin-Eau Claire, 154 Phillips Hall, Eau Claire, WI 54702

MINOR AND TRACE ELEMENT ANALYSIS USING ANALYTICAL TRANSMISSION ELECTRON MICROSCOPE (TEM) STOVERN, Christopher E., Geology, University of Wisconsin Eau Claire, Eau Claire, WI 54701, stoverce@uwec.edu, HOOPER, Robert L., Geology, University of Wisconsin-Eau Claire, Eau Claire, WI 54702, and SWENSON, Ellyn M., Geology, University of Wisconsin - Eau Claire, Eau Claire, WI 54701

THE ROLE OF PROXIMITY IN HOW INDIVIDUALS DESCRIBE NATURAL DISASTERS: ANALYSIS OF THE 2004 INDIAN OCEAN TSUNAMI HER, Xai, BUELOW, Ellen K., and CLARK, Scott K., Department of Geology, University of Wisconsin-Eau Claire, 154 Phillips Hall, Eau Claire, WI 54702, herx@uwec.edu

CHEMICAL FINGERPRINT OF HYDROTHERMAL QUARTZ CRYSTALS SAMPLED ALONG A TRAVERSE ACROSS THE SWISS ALPS JOHNSON, Aleisha C., LINDBLAD, Todd A., WIPPERFURTH, Scott A., and IHINGER, Phillip D., Department of Geology, University of Wisconsin-Eau Claire, 105 Garfield Ave, Eau Claire, WI 54701, johnalei@uwec.edu

ASSESSING SEDIMENT AND ORGANIC CARBON ACCUMULATION IN SEMINOE RESERVOIR, WYOMING LOGAN, Leslie¹, MARTIN, Evan¹, and MCELROY, Brandon², (1) Geology & Geophysics, University of Wyoming, Dept 3006, 1000 E University Ave, Laramie, WY 82071, llogan@uwyo.edu, (2) Department of Geology and Geophysics, University of Wyoming, Laramie, WY 82071

INVESTIGATION OF CHONDRULES AND METAL IN ALLENDE (CV3) AND JELICA (LL6) USING X-RAY COMPUTED TOMOGRAPHY ARMENDAREZ, Hannah R., Earth and Environmental Sciences, Vanderbilt University, 5726 Stevenson Center, 7th Floor, Nashville, TN 37240, hannah.r.armendarez@vanderbilt.edu and BAGLEY, Brian, Earth Sciences, University of Minnesota, Minneapolis, MN 55455

CLAY MINERALOGY OF THE MH-2 CORE, SNAKE RIVER PLAIN, IDAHO

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ARE WINTERTIME DE-ICING SALTS HARMING OUR ENVIRONMENT?: THE RESPONSE OF SOIL, QUERCUS RUBRA, AND PINUS STROBUS TO NACL ROCK SALT TREATMENT FLINN, Natalie N. and RODRIGUES, Lisa J., Geography & the Environment, Villanova University, 800 Lancaster Avenue, Villanova, PA 19085, lisa.rodrigues@villanova.edu

MANAGEMENT OF PRODUCED WATER FROM OIL AND GAS WELLS IN CALIFORNIA: PAST TRENDS AND FUTURE SUGGESTIONS TYRRELL, J.P., Department of Geology, Washington & Lee University, 204 West Washington Street, Lexington, VA 24450, tyrrellj14@mail.wlu.edu, SAMUELS, R.M., Department of Geology, Washington and Lee University, 204 W West Washington Street, Lexington, VA 24450, and LOW, P.C., Department of Geology, Washington and Lee University, Science Addition, Lexington, VA 24450

ANALYSIS OF CARBONIFEROUS DIAMICTS OF THE ITARARÈ SUBGROUP IN WITMARSUM, PARANA STATE, BRAZIL PENDERGRASS, Emily¹, ANDERSON FOLNAGY, Heidi², BACCI, D.C.³, ROCHA-CAMPOS, A.C.³, and COTTER, James F.P.⁴, (1) Geosciences and Natural Resources Department, Western Carolina University, Cullowhee, NC 28723, empendergrass2@gmail.com, (2) University of Montana Western, Dillon, MT 59725, (3) Instituto des Geosciências, Universidade de São Paulo, Sao Paulo, 05450-001, Brazil, (4) Geology Discipline, University of Minnesota, Morris, 600 East 4th Street, Morris, MN 56267

ANALYSIS OF SOIL ORGANIC MATTER OVER MULTIPLE GROWING SEASONS AT AN ORGANIC FARM IN SOUTHEASTERN MINNESOTA

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