

2006 Philadelphia Annual Meeting (22–25 October 2006)

Session No. 143

Tuesday, 24 October 2006

8:00 AM-12:00 PM, Pennsylvania Convention Center: Exhibit Hall C

T22. Sigma Gamma Epsilon Student Research (Posters)

Paper # Booth

- 143-1 34 [COMPARISON OF MODERN ANTHROPOGENIC AND NATURAL BEACH SCALLOPS IN OCEAN CITY, MD](#): **DIDLAKE, Timothy J.**, Geoscience, Pennsylvania State University, University Park, PA 16802, tjd181@psu.edu and **GUERTIN, Laura A.**, Earth Science, Penn State Delaware County, 25 Yearsley Mill Road, Media, PA 19063
- 143-2 35 [PREPARATION AND X-RAY FLUORESCENCE \(XRF\) ANALYSIS OF RIVERBED SEDIMENTS FROM VARYING LITHOLOGY](#): **GOLDSMITH, Steven**¹, **CAREY, Anne E.**², and **BHATTIPROLU, Sreenivas**², (1) Geological Sciences, The Ohio State University, 275 Mendenhall Laboratory, 125 South Oval Mall, Columbus, OH 43210-1308, goldsmith.35@osu.edu, (2) Department of Geological Sciences, The Ohio State Univ, 275 Mendenhall Lab, 125 South Oval Mall, Columbus, OH 43210
- 143-3 36 [U-TH-PB GEOCHRONOLOGY OF MONAZITE IN A QUARTZ-SILLIMANITE NODULAR LEUCOGRANITE FROM THE CARTHAGE-COLTON MYLONITE ZONE \(CCMZ\), NORTHWESTERN ADIRONDACK HIGHLANDS, NEW YORK](#): **BROWN, Summer J.**, Geosciences, Virginia Tech, Blacksburg, VA 24060, summerb@vt.edu, **LOEHN, Clayton W.**, Geosciences, Virginia Tech, Blacksburg, VA 24061, **TRACY, R.J.**, Dept. of Geosciences, Virginia Tech, Blacksburg, VA 24061, and **HUDSON, Michael R.**, Department of Chemistry, Geology, and Physics, Ashland Univ, Ashland, OH 44805
- 143-4 37 [USING LANDSAT IMAGES TO DETERMINE THE STRUCTURAL RELATIONSHIP BETWEEN THE EAST ANATOLIAN AND DEAD SEA FAULT ZONES IN SOUTHEASTERN TURKEY](#): **VAN DOLAH, Aaron C.**, Boone Pickens School of Geology, Oklahoma State University, Stillwater, OK 74078, aaroncv@okstate.edu and **ÇEMEN, Ibrahim**, School of Geology, Oklahoma State Univ, 105 Noble Research Center, Stillwater, OK 74078
- 143-5 38 [PALEOMAGNETIC STUDY OF PROTEROZOIC DIKES IN INDIA](#): **GOMMERMANN, Luke W.**¹, **PRADHAN, Vimal**¹, **MEERT, Joseph G.**², **PANDIT, Manoj K.**³, and **GREGORY, Laura**², (1) Geological Sciences, University of Florida, 241 Williamson Hall, Gainesville, FL

32611, luke04@ufl.edu, (2) Geological Sciences, University of Florida, 241 Williamson Hall, PO Box 112120, Gainesville, FL 32611, (3) Department of Geology, University of Rajasthan, Jaipur, 302004

- 143-6 39 [COMPARATIVE GEOMORPHIC ANALYSIS OF THREE SUB-WATERSHEDS OF BEAVER RESERVOIR, NORTHWEST ARKANSAS](#): **KURZ, Marie J.**, Dept. of Geology, College of William & Mary, P.O. Box 8795, Williamsburg, VA 23187-8795, mjkurz@wm.edu, **PATTON, Jason A.**, Environmental Dynamics Program, University of Arkansas, Fayetteville, AR 72701, and **BOSS, Stephen K.**, Dept. of Geosciences, University of Arkansas, 113 Ozark Hall, Fayetteville, AR 72701
- 143-7 40 [PETROLOGY AND GEOCHEMISTRY OF THE EJB DIORITE, WHITE-INYO MOUNTAINS, EASTERN CALIFORNIA](#): **STRAATHOF, Lindy L.**, **MATTY, David J.**, and **STUDENT, James J.**, Department of Geology, Central Michigan University, 314 Brooks Hall, Mount Pleasant, MI 48859, straa111@cmich.edu
- 143-8 41 [AGE OF THE OCMULGEE LIMESTONE FROM THE K-AR AGE OF GLAUCONY GRAINS, COASTAL PLAIN, GEORGIA](#): **STEPHENS, Elizabeth**, Department of Geosciences, Georgia State University, Atlanta, GA 30303, ladywindsong@hotmail.com, **ANDERSON, John R.**, Science, Georgia Perimeter College, 2101 Womack Road, Dunwoody, GA 30338, **GULLETT-YOUNG, Cheryl**, Department of Geosciences, Georgia State Univ, Atlanta, GA 30302, **ELLIOTT, W. Crawford**, Department of Geosciences, Georgia State University, Atlanta, GA 30302, and **WAMPLER, J. Marion**, School of Earth and Atmospheric Sciences, Georgia Institute of Technology, Atlanta, GA 30332
- 143-9 42 [SOURCES OF SALINITY IN A BRACKISH COASTAL-ZONE BORROW-PIT LAKE, PORTSMOUTH, VIRGINIA](#): **RANCK, Timothy S.**, **TALLEY, Lisa A.**, **TILLMAN, Dalayna M.**, **BURDIGE, David J.**, and **WHITTECAR, G. Richard**, Ocean Earth and Atmospheric Sciences, Old Dominion University, Norfolk, VA 23529, tranc001@odu.edu
- 143-10 43 [INVESTIGATING GROUNDWATER TRANSPORT OF PARTICULATE LEAD SHOT USING ESEM/EDS](#): **TIERNEY, Nathaniel**, **MONSON, Frederick**, and **HELMKE, Martin F.**, Department of Geology and Astronomy, West Chester University of Pennsylvania, 207 Boucher Hall, West Chester, PA 19383, NT608250@WCUPA.EDU
- 143-11 44 [PROCESSES INFLUENCING VARIABILITY IN CAVE DRIP WATER TEMPERATURES](#): **ZIEGLER, Carla**, Geological Sciences and Environmental Studies, Binghamton University, P.O. Box 6000, Binghamton, NY 13902, czig85@yahoo.com, **GROVES, Chris**, Department of Geography and Geology, Hoffman Environmental Rsch Institute, Western Kentucky University, 1 Big Red Way, Bowling Green,

KY 42101, MEIMAN, Joe, Division of Science and Resource Management, Mammoth Cave National Park, Mammoth Cave, KY 42259, and BOLSTER, Carl, ARS Animal Waste Management Research Unit, USDA, Bowling Green, KY 42104

- 143-12 45 [GEARCHAEOLOGICAL AND GEOMORPHIC MAPPING IN THE GÖKSU VALLEY, TURKEY](#): **KYER, Jeffrey A.**, Master of Environmental Studies, College of Charleston, 66 George St, Charleston, SC 29424, jakyer@bellsouth.net, **LEVINE, Norman S.**, Geology and Environmental Geosciences, College of Charleston, 66 George Street, Charleston, SC 29424, and **NEWHARD, Jim**, Classics, German, Italian, Japanese, Russian, College of Charleston, 66 George St, Charleston, SC 29424
- 143-13 46 [CHARACTERIZATION OF MESOZOIC DIKES FROM MAURITANIA, WESTERN AFRICA AND IMPLICATIONS FOR THE COHERENCY OF THE AFRICAN CONTINENT](#): **MASON, Stephanie N.**¹, **COTTRELL, Rory D.**¹, **TARDUNO, John A.**¹, and **LO, Khalidou**², (1) Department of Earth and Environmental Sciences, University of Rochester, 227 Hutchinson Hall, Rochester, NY 14627, steph@earth.rochester.edu, (2) Office Mauritanien des Recherches Geologiques, Nouakchott, Mauritania
- 143-14 47 [SURVEY OF OSTRACODES IN LAKES AND STREAMS IN A RECLAIMED SURFACE MINE, THE WILDS, SOUTHEASTERN OHIO](#): **ESSELBURN, Jason D.** and **VAN HORN, Stephen R.**, Department of Geology, Muskingum College, 163 Stormont Street, New Concord, OH 43762, jason@muskingum.edu
- 143-15 48 [SUBSURFACE STRATIGRAPHY AND AQUEOUS GEOCHEMISTRY AS INDICATORS OF HYDROLOGY IN BEACH-RIDGE COMPLEXES: TWO CASE STUDIES FROM THE UPPER GREAT LAKES](#): **PORSE, Sean L.**¹, **BELL, Joseph M.**¹, **BAEDKE, Steve J.**², **THOMPSON, Todd A.**³, and **WILCOX, Douglas A.**⁴, (1) Department of Geology and Environmental Science, James Madison University, MSC 7703, Harrisonburg, VA 22807, porsesl@jmu.edu, (2) Dept. of Geology and Environmental Science, James Madison University, MSC 7703, Harrisonburg, VA 22807, (3) Indiana Geological Survey, Indiana University, 611 North Walnut Grove, Bloomington, IN 47405, (4) Great Lakes Science Center, U.S. Geol Survey, 1451 Green Road, Ann Arbor, MI 48105
- 143-16 49 [A COMPARISON OF DENDROCHRONOLOGICAL AND SEDIMENTOLOGICAL DATASETS AND THEIR APPLICABILITY FOR THE INTERPRETATION OF ANNUAL AND DECADAL SCALE CLIMATE FLUCTUATIONS IN THE GREAT LAKES](#): **BELL, Joseph M.**¹, **PORSE, Sean L.**¹, **BAEDKE, Steve J.**², **THOMPSON, Todd A.**³, and **WILCOX, Douglas A.**⁴, (1) Department of Geology and Environmental

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- 143-17 50 [THE TULLY VALLEY BRINE FIELD/MUDBOIL HYDROGEOLOGIC CONNECTIONS PROJECT](#): **HACKETT, William R.** and BURNS, Diane M., Geology, St. Lawrence University, 23 Romoda Drive, Canton, NY 13617, wrhack03@stlawu.edu
- 143-18 51 [POSTGLACIAL DRAINAGE EVOLUTION OF THE ADIRONDACK NORTH-FLOWING TRIBUTARIES OF THE ST. LAWRENCE RIVER, NORTHERN NEW YORK](#): **MENARD, Robert C.**, Geology Department, St. Lawrence University, Canton, NY 13617, rcmena03@stlawu.edu and ERICKSON, J. Mark, Geology Department, St. Lawrence Univ, Canton, NY 13617
- 143-19 52 [RARE EARTH ELEMENT COMPARISON OF VERTEBRATE ASSEMBLAGES IN THE MORRISON AND CLOVERLY FORMATIONS](#): **CARTWRIGHT, Alyson M.**, Geological Sciences, University of Minnesota Duluth, Duluth, MN 55812, cart0291@d.umn.edu, DEMKO, Timothy M., Geological Sciences, University of Minnesota Duluth, 229 Heller Hall, 1114 Kirby Drive, Duluth, MN 55812, BODENBENDER, Brian E., Geological and Environmental Sciences, Hope College, 35 E. 12th St, Holland, MI 49423, and PEASLEE, Graham, Geological and Environmental Sciences, Hope College, Holland, MI 49423
- 143-20 53 [TAPHONOMY AND PALEOENVIRONMENTAL ANALYSIS OF THE RED CANYON RANCH DINOSAUR SITE, UPPER JURASSIC MORRISON FORMATION, SHELL, WYOMING](#): **ANDERSON, A.K.**¹, **BYLSMA, A.L.**², **ETTER, M.D.**¹, **GRAY, C.J.**³, **OCHOA, R.I.**⁴, **PELS, S.D.**², **RIESE, D.J.**⁵, **STACK, K.P.**⁶, **WALTON, K.A.**⁷, and **WISMER, M.A.**⁸, (1) Geological Sciences Department, University of Minnesota Duluth, 217 Heller Hall, 1114 Kirby Drive, Duluth, MN 55812, ande4017@d.umn.edu, (2) Geological and Environmental Sciences, Hope College, 35 E. 12th St, Holland, MI 49423, (3) Geography, Geology, and Anthropology, Indiana State University, Terre Haute, IN 47809, (4) Department of Geology, University of Texas at El Paso, 500 West University Avenue, El Paso, TX 79968-0555, (5) Department of Physical Sciences, Kutztown University of Pennsylvania, Kutztown, PA 19530, (6) University of Wisconsin Oshkosh, 712 Elmwood Avenue, Oshkosh, WI 54901, (7) Department of Geology and Geography, West Virginia University, Morgantown, WV 26506-6300, (8) Department of Geology and Geophysics, University of Wisconsin Madison, 1215 West Dayton Street, Madison, WI 53706

- 143-21 54 [MAGMATIC VARIABILITY AND ALTERATION HISTORY OF THE ST. FRANCOIS MOUNTAINS, MISSOURI : OXYGEN ISOTOPE RATIOS OF ZIRCON AND QUARTZ: TRZASKUS, A.P.¹, KING, E.M.¹, VALLEY, J.W.², and GILLETTE, R.O.¹](#), (1) Dept. of Geography-Geology, Illinois State University, Normal, IL 61790, aptrzas@ilstu.edu, (2) Department of Geology and Geophysics, Univ of Wisconsin-Madison, 1215 West Dayton Street, Madison, WI 53706
- 143-22 55 [GARNET COMPOSITIONS PRODUCING PROTECTIVE-SURFACE COATINGS IDENTIFIED USING THE PILLING-BEDWORTH RULE: ANDERSON, Diane¹, PRICE, Jason R.¹, and VELBEL, Michael A.²](#), (1) Department of Earth Sciences, Millersville University, P.O. Box 1002, Millersville, PA 17551-0302, dpanders@marauder.millersville.edu, (2) Department of Geological Sciences, Michigan State University, 206 Natural Science Building, East Lansing, MI 48824-1115
- 143-23 56 [GEOCHEMICAL ANALYSES OF AND TECTONIC SETTING FOR TWO MAFIC INTRUSIVE BODIES IN THE NORTHEASTERN ADIRONDACK MOUNTAINS: PLOURDE, Kathleen](#), Geology, Hartwick College, Johnstone Science Center, Oneonta, NY 13820, PlourdeK@hartwick.edu
- 143-24 57 [RECONNAISSANCE STUDY OF DEPOSITIONAL ENVIRONMENTS AND TRACE FOSSILS OF THE CLIFTY FORMATION \(DEVONIAN\), NORTHWEST ARKANSAS: BLACKSTOCK, Joshua M.](#), Department of Earth Sciences, U. of Arkansas – Little Rock, 2801 South University Avenue, Little Rock, AR 72204-1099, jblackstock@ualr.edu, BOSS, Stephen K., Dept. of Geosciences, University of Arkansas, 113 Ozark Hall, Fayetteville, AR 72701, and LESLIE, Stephen A., Department of Earth Sciences, University of Arkansas at Little Rock, Little Rock, AR 72204
- 143-25 58 [LATE PALEOZOIC MICROGASTROPOD-DOMINATED FAUNAS OF THE PINE FOREST RANGE, HUMBOLDT COUNTY, NEVADA: DUDEI, Nicole, HANGER, Rex A., GIERACH, Laura, ADAMS, Kristin, and TRUSS, Joshua](#), Geography & Geology, University of Wisconsin-Whitewater, 800 West Main Street, Whitewater, WI 53190, dudeinl05@uww.edu
- 143-26 59 [RECONSTRUCTING THE LATE JURASSIC PALEOENVIRONMENT THROUGH CHRONOSTRATIGRAPHIC CORRELATION OF MORRISON FORMATION SUBSURFACE WELL LOGS, OUTCROPS, AND FOSSIL BEARING LAYERS IN THE EASTERN BIGHORN BASIN, WYOMING: ROCHEFORD, Kat](#), Geological Sciences, University of Minnesota Duluth, Duluth, MN 55812, roch0088@d.umn.edu, **MATHISRUD, C.L.**, Department of Plant and Earth Science, University of Wisconsin - River Falls, River Falls, WI 54022-5001, crystal.scott@uwrf.edu, **DEMKO, Timothy M.**, Geological

Sciences, University of Minnesota Duluth, 229 Heller Hall, 1114 Kirby Drive, Duluth, MN 55812, and UPCHURCH, G.R. Jr, Department of Biology, Texas State University, San Marcos, TX 78666

- 143-27 60 [CLAY MINERALOGY AND PETROLOGY ASSOCIATED WITH A DINOSAUR LAKE \(AARON SCOTT QUARRY, MORRISON FORMATION, JURASSIC\), UTAH](#): BERTO, Janet L.¹, JEFFERY, David L.², **ROBINSON, Rath R.**¹, BOSWELL, Gary¹, MACKEY, Dakota¹, CASE, Chris², and MCCORMICK, David², (1) Physics and Geology, Northern Kentucky Univ, Highland Hts, KY 41099, rathr21@aol.com, (2) Dept Petroleum Eng & Geo, Marietta College, 215 Fifth Street, Marietta, OH 45750
- 143-28 61 [PETROGRAPHIC ANALYSIS OF BENTONITE BEDS TO INTERPRET VOLCANIC SOURCES IN THE GREENHORN FORMATION, SOUTH DAKOTA](#): **DYE, Damon**, Physics and Geology, Northern Kentucky University, SC 204, Highland Heights, KY 41099, dyed@nku.edu and BERTO, Janet L., Physics and Geology, Northern Kentucky Univ, Highland Hts, KY 41099
- 143-29 62 [A HIGH-LATITUDE RECORD OF THE PLANKTIC FORAMINIFERAL TURNOVER DURING THE MIDDLE TO LATE EOCENE TRANSITION IN THE SOUTHERN OCEAN \(ODP SITE 748\)](#): **NIELSEN, Jennifer L.**, Department of Geology and Geophysics, University of Wisconsin - Madison, 1215 W. Dayton Street, Madison, WI 53706, jnielsen@geology.sdsu.edu and KELLY, D.C., Department of Geology and Geophysics, University of Wisconsin - Madison, 1215 West Dayton Street, Madison, WI 53706
- 143-30 63 [FORAMINIFERAL PALEOECOLOGY AND SEQUENCE STRATIGRAPHY OF THE LOWER JACKSON GROUP \(EOCENE; BARTONIAN\), WAYNE COUNTY, MISSISSIPPI](#): **BRODOWSKI, Joseph T.**¹, HAY, Michael T.¹, MYERS, Rachel M.¹, NEWELL, Christopher R.¹, NICHOLS, Paul K.¹, PAPE, Kristin M.¹, WILCZYNSKI, Donovan T.¹, WOLFE, Davina M.¹, WRIGHT, Tom A.¹, and FLUEGEMAN, Richard H.², (1) Dept. of Geology, Ball State University, Dept. of Geology, Ball State University, Muncie, IN 47306-0475, rfluegem@bsu.edu, (2) Dept. of Geology, Ball State University, Muncie, IN 47306-0475
- 143-31 64 [A NEW METHOD FOR RECONSTRUCTING PATTERNS OF INTRA-ANNUAL GROWTH IN BIVALVE MOLLUSKS](#): **WISSINK, Christine**, Department of Geosciences, Denison University, Slayter Box 0301, Granville, OH 43023, wissin_c@denison.edu and GOODWIN, David, Department of Geosciences, Denison University, FW Olin Science Hall, 100 Sunset Hill Drive, Granville, OH 43023
- 143-32 65 [VERMONT TERROIR: INVESTIGATING THE RELATIONSHIP BETWEEN MAPLE SYRUP CHEMISTRY AND BEDROCK](#)

- LITHOLOGY: **CORBETT, Lee B.** and MUNROE, Jeffrey S., Geology Department, Middlebury College, Bicentennial Hall, Middlebury, VT 05753, acorbett@middlebury.edu
- 143-33 66 THE EFFECT OF BEAVER DAMS ON PHOSPHORUS CYCLING: **ROCHE, Erin K.**, Department of Geography-Geology, Illinois State University, 700 N. Adelaide, Unit 40, Normal, IL 61761, ekroche@ilstu.edu and VAN DER HOVEN, Stephen J., Department of Geography-Geology, Illinois State University, Campus Box 4400, Normal, IL 61790
- 143-34 67 ANALYSIS OF SEDIMENT TRANSPORT DATA AND CALCULATION OF HISTORICAL SEDIMENT LOAD, ST. CROIX RIVER, MN/WI: **KUSHNER, Emily**¹, MACGREGOR, Kelly¹, and HORNBAACH, Dan², (1) Geology, Macalester College, 1600 Grand Ave, St. Paul, MN 55105, ekushner@macalester.edu, (2) Biology, Macalester College, 1600 Grand Ave, St. Paul, MN 55105
- 143-35 68 ILLITE PRECIPITATION AT JACK BRADLEY CAVE (PULASKI COUNTY, KENTUCKY) AS A RESULT OF ACID MINE DRAINAGE: **SPRINGER, Austin**, Physics & Geology, Northern Kentucky University, Highland Hts, KY 41099, springera1@nku.edu and BERTO, Janet L., Physics and Geology, Northern Kentucky Univ, Highland Hts, KY 41099
- 143-36 69 EL NIÑO – SOUTHERN OSCILLATION AND ITS CORRELATION TO RECHARGE IN COASTAL NORTH CAROLINA: **SHOOK, Gloria J.** and ANDERSON, William P. Jr, Department of Geology, Appalachian State University, ASU Box 32067, Boone, NC 28608-2067, gs64437@appstate.edu
- 143-37 70 SEDIMENT FLUXES FROM PITMAN CREEK, A TRIBUTARY OF THE GREEN RIVER IN WESTERN KENTUCKY: **TRODICK, Charles David Jr**, Department of Geology, Cornell College, 810 Commons Circle, Mount Vernon, IA 52314, ctrodick@cornellcollege.edu and KENWORTHY, Stephen, Department of Geography and Geology, Western Kentucky University, 1906 College Heights Blvd, Bowling Green, KY 42101
- 143-38 71 WARM SEASON, STORM-SCALE HYDROCHEMICAL VARIATIONS IN LOGSDON RIVER, MAMMOTH CAVE SYSTEM, KENTUCKY: **HERRERA, Juan S.**¹, KENWORTHY, Stephen¹, and GROVES, Chris², (1) Department of Geography and Geology, Western Kentucky University, 1906 College Heights Blvd, Bowling Green, KY 42101, juan.herrera@wku.edu, (2) Department of Geography and Geology, Hoffman Environmental Rsch Institute, Western Kentucky University, 1 Big Red Way, Bowling Green, KY 42101
- 143-39 72 ARBOREAL UPTAKE, DROUGHT AND INTERNAL SEDIMENT

- [BUILDUP AS POSSIBLE CAUSES FOR DISCHARGE RATE VARIATION IN THE EPIKARST AND MANTLED KARST AQUIFER AT SAVOY EXPERIMENTAL WATERSHED: STIELSTRA, Clare M.](#), geology, Lawrence University, 115 S. Drew St, Appleton, WI 54911, stielstc@lawrence.edu
- 143-40 73 [EVALUATION OF ISOTOPIC EQUILIBRIUM IN STABLE ISOTOPES OF SPELEOTHEMES AS A PROXY FOR CURRENT CLIMATE CONDITIONS: DANZ, Julia M.](#), Department of Geology, Beloit College, 700 College Street, Box 1438, Beloit, WI 53511, danzj@stu.beloit.edu and POLLOCK, Eric, Department of Geosciences, University of Arkansas, Fayetteville, AR 72701
- 143-41 74 [COULOMETRIC ANALYSIS OF A SEDIMENT CORE FROM SWIFTCURRENT LAKE, GLACIER NATIONAL PARK, MONTANA: JONES, Laura C.¹, RIIHIMAKI, Catherine A.¹, MACGREGOR, Kelly R.², JANKOWSKI, Krista², MYRBO, Amy E.³, and SHAPLEY, Mark⁴](#), (1) Dept. of Geology, Bryn Mawr College, 101 North Merion Ave, Bryn Mawr, PA 19010, ljones@brynawr.edu, (2) Department of Geology, Macalester College, 1600 Grand Ave, St. Paul, MN 55105, (3) LRC / Geology and Geophysics, Univ of Minnesota, 310 Pillsbury Dr SE, Minneapolis, MN 55455, (4) Limnological Research Center, University of Minnesota, Minneapolis, MN 55455
- 143-42 75 [EVALUATION OF WATER QUALITY CONCERNS IN A WESTERN SECTION OF THE ERIE CANAL: HOFELICH, Shelley and NOLL, Mark R.](#), Department of the Earth Sciences, SUNY College at Brockport, 350 New Campus Dr, Brockport, NY 14420, shof0731@brockport.edu
- 143-43 76 [A STRESSED STREAM ANALYSIS OF STORMWATER IMPACT IN TWO MIXED LAND-USE WATERSHEDS OF THE ROCHESTER EMBAYMENT, LAKE ONTARIO: PAWL, Rebecca¹, SMITH, Richard¹, and NOLL, Mark R.²](#), (1) Department of the Earth Sciences, SUNY College at Brockport, 350 New Campus Dr, Brockport, NY 14420, rpaw0420@brockport.edu, (2) Department of the Earth Sciences, SUNY College at Brockport, 350 New Campus Dr, Brockport, NY 14420, mnoll@brockport.edu
- 143-44 77 [OPTICAL DATING PROPERTIES OF THENARDITE \(Na₂SO₄\): A POTENTIAL SULFUR SOURCE MINERAL IN MARTIAN SEDIMENTS: MORKEN, Todd O.](#), Geosciences, North Dakota State University, 218 Stevens Hall, Fargo, ND 58105, Todd.Morken.1@ndsu.edu and LEPPER, Kenneth, Geosciences, North Dakota State Univ, 218 Stevens Hall, Fargo, ND 58105

