**The Geological Society of America : 56th Annual Meeting**

**2021 Northeastern Section Meeting**

**Monday, March 15, 2021**

**IGCP683 section : Pre-Atlantic Geological Connections among Northwest Africa, Southern Europe, and Eastern North America**

**Advocates :**

**Yvette D. Kuiper** ; Colorado School of Mines, US

**Sandra M. Barr** ; Acadia University, Canada

**Faouziya Haissen**, Hassan II University, Morocco

**Pilar Montero** ; University of Granada, Spain

**Saïd Belkacim** ; Ibn Zohr University, Morocco

***Presentations*** :

**BUILDING KINEMATIC MODELS FOR IAPETUS OCEAN CLOSURE**

**WALDRON, John**, Department of Earth and Atmospheric Sciences, University of Alberta, Edmonton, AB T6G2E3, Canada, BARR, Sandra M., Department of Earth and Environmental Science, Acadia University, Wolfville, NS B4P 2R6, Canada, MCCAUSLAND, Phil, University of Western Ontario Dept Earth Sciences, 1151 Richmond St., London, ON N6A 5B7, CANADA, SCHOFIELD, David I., British Geological Survey, The Lyell Centre, Research Avenue South, Edinburgh, EH14 4AP, United Kingdom, WU, Lei, Department of Earth and Planetary Sciences, McGill University, 3450 Rue University, Montréal, QC H3A 0E8, Canada and REUSCH, Douglas, Dept. of Geology, University of Maine Farmington, Farmington, ME

**DETRITAL ZIRCON SOURCE EVOLUTION DURING THE DEVONIAN-CARBONIFEROUS COLLISION IN THE NORTHERN MOROCCAN VARISCIDES**

**ACCOTTO, Cristina**, MARTÍNEZ POYATOS, David, AZOR, Antonio and JABALOY-SÁNCHEZ, Antonio, Geodynamics Department, University of Granada, Facultad de Ciencias, Campus Fuentenueva, Avenida Fuentenueva s/n, Granada, 18071, Spain

**A COMPARISON OF THE CAMBRIAN PRE-RIFT, SYN-RIFT AND BREAK-UP PULSES THROUGHOUT THE ATLAS‒OSSA-MORENA‒NORTH ARMORICAN RIFT (NW AFRICA AND SW EUROPE) AND WESTERN AVALONIA (ATLANTIC CANADA)**

**ALVARO, Javier,** Instituto de Geociencias, (CSIC-UCM),, Dr. Severo Ochoa 7, Madrid, 28040, Spain

**LITHOSTRATIGRAPHY, PETROCHEMISTRY AND U-PB (ZIRCON) AGE CONSTRAINTS OF VOLCANIC ROCKS OF THE BONAVISTA PENINSULA: IMPLICATIONS FOR THE INTERPRETATION OF THE MUSGRAVETOWN GROUP**

**MILLS, Andrea,** Geological Survey of Newfoundland and Labrador, Government of Newfoundland and Labrador, 50 Elizabeth Ave, St. John's, NF A1B 4J6, Canada, SANDEMAN, Hamish, Department of Industry, Energy and Tec 50 Elizabeth Avenue, 50 Elizabeth AvenueTec, St. John's, NL A1B 4J6, CANADA and DUNNING, Greg, Earth Science, Memorial University of Newfoundland (MUN), Alexander Murray Building, St. John's, NS A1B 3X5, Canada

**METAMORPHIC EVOLUTION OF THE SOUTHWESTERN PART OF THE MEGUMA TERRANE NOVA SCOTIA, CANADA**

**NAGURNEY, Alexandra**1, CADDICK, Mark1 and WHITE, Chris E.2, (1)Department of Geosciences, Virginia Tech, Blacksburg, VA 24061, (2)Nova Scotia Department of Energy and Mines, Halifax, NS B3J 2T9, Canada

**UPDATE ON DETRITAL ZIRCON U/PB GEOCHRONOLOGY FROM PROTEROZOIC AND EARLY PALEOZOIC ROCKS OF THE PENOBSCOT BAY INLIER, MAINE**

**REUSCH, Douglas**, Dept. of Geology, University of Maine Farmington, Farmington, ME 04938-6821, STRAUSS, Justin V., Department of Earth Sciences, Dartmouth College, Hanover, NH 03755 and SMITH, Langhorne, Smith Stratigraphic LLC, 21 Ricks Road, Woodstock, NY 12498

Online - Portland

**AFRICAN AFFINITY OF TONIAN DETRITAL ZIRCON IN AVALONIA OF SOUTHEASTERN-MOST NEW ENGLAND, USA?**

**THOMPSON, Margaret**, Geosciences Department, Wellesley College, Wellesley, MA 02481, WHITE, C.E., Geoscience and Mines Branch, Nova Scotia Department of Energy and Mines, PO Box 698, Halifax, NS B3J2T9, Canada and BARR, S.M., Earth and Environmental Science, Acadia University, Wolfville, NS B4P2R6, Canada

**NEW DETRITAL ZIRCON DATA FROM WESTERN CONNECTICUT PROVIDE INSIGHT INTO TERRANE AFFINITIES AND MAP PATTERNS OF REGIONAL LITHOLOGIES**

**BURTON, William**, Florence Bascom Geoscience Center, U.S. Geological Survey, MS 926A National Center, Reston, VA 20192, HOLM-DENOMA, Chris, U.S. Geological Survey, Geology, Geophysics, and Geochemistry Science Center, Denver Federal Center, Denver, CO 80225; USGS, 345 Middlefield Rd., MS 901, Menlo Park, CA 94025, WINTSCH, Robert P., Earth and Environmental Sciences, Wesleyan University, 265 Church St, Middletown, CT 06459, LEE, Shinae, Korea Basic Science Institute, Ochang, Chungbuk, 363-883, Korea, Republic of (South), DEVLIN, William, Rock Bottom Research, 787 Georges Hill Rd, Southbury, CT 06488-4623, WALSH, Gregory, United States Geological Survey, Montpelier, VT 05602 and RATCLIFFE, Nicholas M., MS926A, US Geological Survey, Reston, VA 20192

**CHASING CAMERON’S LINE: DETRITAL ZIRCON RESULTS FROM THE MANHATTAN AND HARTLAND SCHIST IN NEW YORK CITY**

**JARET, Steven**1, TAILBY, Nicholas D.1, HAMMOND, Keiji1, RASBURY, E. Troy2, WOOTON, Kathleen2, EBEL, Denton1, DIPADOVA, E.3, SMITH, Riley3, YUAN, Victoria3, JAFFE, Noa3, SMITH, Lisa M.1 and SPAETH, Lynsey3, (1)Department of Earth and Planetary Sciences, American Museum of Natural History, Central Park West at 79th Street, New York, NY 10024-5192, (2)Geosciences, SUNY Stony Brook, Stony Brook, NY 11794-2100, (3)New York City Board of Education, New York, NY 11201

**THE NEOPROTEROZOIC BOU AZZER OPHIOLITE (MOROCCO): PETROLOGY, GEOCHEMISTRY AND GEODYNAMIC IMPLICATIONS**

**PUJOL-SOLÀ, Núria**1, ESCALONA, Helena1, PROENZA, Joaquín A.1, HAISSEN, Faouziya2, IKENNE, Moha3, ARENAS, Ricardo4, SÁNCHEZ MARTÍNEZ, Sonia4, MAACHA, Lhou5 and GARCIA-CASCO, Antonio6, (1)Mineralogia, Petrologia i Geologia Aplicada, Facultat de Ciències de la Terra, Universitat de Barcelona, C/ Martí i Franquès s/n, Barcelona, 08028, Spain, (2)Hassan II University of Casablanca, Casablanca, Morocco, (3)Dept of Geology, Faculty of Sciences, Ibnou Zohr University, P.O. Box 28/S, Agadir, 80 000, Morocco, (4)Petrología y Geoquímica, Universidad Complutense, 28040 Madrid, Spain, (5)MANAGEM Group, 191, bd Mohamed Zerktouni, angle bd. Massira Alkhadra, Twin Center Tour, Casablanca, A-20100, Morocco, (6)Instituto Andaluz de Ciencia de la Tierra (IACT), Universidad de Granada-CSIC, Armilla (Granada), 18100, Spain; Departamento de Mineralogía y Petrología, Universidad de Granada, Granada, 18071, Spain

**MAGMATISM OF THE MINING DISTRICT OF TIGHZA (MASSIF CENTRAL MOROCCO): DEPOSIT MODE AND PETROGRAPHIC AND GEOCHEMICAL CHARACTERIZATION**

**ABSTRACT WITHDRAWN**

***E-Posters :***

**FTIR IDENTIFICATION OF SERPENTINE POLYMORPHS IN POLISHED SECTIONS**

**SCHOONOVER, Erik**, Hope College, 141 E. 12th street, Holland, MI 49423-3638; Hope College, 141 E. 12th street, Holland, MI 49423-3638, MARTIN, Celine, American Museum of Natural History, 200 Central Park West, New York, NY NY 10024-5102 and JARET, Steven, Department of Earth and Planetary Sciences, American Museum of Natural History, Central Park West at 79th Street, New York, NY 10024-5192

**THE EDIACARAN OUARZAZATE GROUP, A METACRATONIC SILICIC LARGE IGNEOUS PROVINCE (SLIP): NEW U-PB ZIRCON AGES FROM OUZELLARH-SIROUA SALIENT (TIFNOUTE VALLEY)**

**BELKACIM, Saïd,** Département de Géologie, Université Ibn Zohr, B.P 8106, Cité Dakhla, Agadir, QC 80 000, Morocco, PERROT, Morgann, Sciences de la Terre et de l'Atmosphère, Université du Québec à Montréal, C.P. 8888, Succursale Centre-Ville, Montréal, QC H3C 3P8, DAVIES, Joshua H.F.L., Sciences de la Terre et de l'Atmosphère, Université du Québec à Montréal, 201 President-Kennedy Av, PO Box 8888, Montreal, QC H3C3P8, Canada, LIÉGEOIS, Jean-Paul, Geodynamics and Mineral Resources, Royal Museum for Central Africa, Tervuren, B-3080, Belgium and IKENNE, Moha, Dept of Geology, Faculty of Sciences, Ibnou Zohr University, P.O. Box 28/S, Agadir, 80 000, Morocco

**DETRITAL ZIRCON GEOCHRONOLOGY IN NORTHERN APPALACHIAN AVALONIAN TERRANES: INSIGHTS INTO BASIN DEVELOPMENT AND TERRANE JUXTAPOSITIONS**

**VAN ROOYEN**, Deanne, Department of Mathematics, Physics, and Geology, Cape Breton University, Sydney, NS B1P 6L2, Canada, BARR, Sandra M., Department of Earth and Environmental Science, Acadia University, Wolfville, NS B4P 2R6, Canada and WHITE, Chris, Nova Scotia Department of Energy and Mines, 1701 Hollis Street, PO Box 698, Halifax, NS B3J 2T9, Canada

**U-PB ZIRCON GEOCHRONOLOGY OF THE LAMOINE GRANITE, PENOBSCOT BAY INLIER, COASTAL MAINE, USA**

**POLLOCK, Jeff**, Department of Earth Sciences, Mount Royal University, Calgary, AB T3E 6K6, Canada, REUSCH, Douglas, Dept. of Geology, University of Maine Farmington, Farmington, ME 04938-6821 and DUNNING, Greg R., Department of Earth Sciences, Memorial University of Newfoundland, St. John's, NF A1B 3X5, Canada

**U-PB DETRITAL ZIRCON ANALYSIS OF SEDIMENTARY ROCKS OF THE SOUTHEASTERN NEW ENGLAND AVALON TERRANE IN THE US APPALACHIANS: EVIDENCE FOR A SEPARATE CRUSTAL BLOCK**

**KUIPER, Yvette** D.1, MURRAY, Daniel P.2, ELLISON, Sonia1 and CROWLEY, James L.3, (1)Department of Geology and Geological Engineering, Colorado School of Mines, 1516 Illinois Street, Golden, CO 80401, (2)Department of Geosciences, University of Rhode Island, 337 Woodward Hall, Kingston, RI 02881, (3)Department of Geosciences, Boise State University, Boise, ID 83725

PERI-GONDWANAN TERRANE ASSEMBLY AS REVEALED IN THE NEW BEDROCK GEOLOGIC MAP OF THE ESSEX QUADRANGLE, CONNECTICUT

WINTSCH, Robert, Dept Earth and Environmental Sciences, Wesleyan University, 265 Church St., Middletown, CT 06459 and DEASY, Ryan T., U.S. Geological Survey, 926A National Center, Reston, VA 20192