

PROGRAM

30 July 2023 (Sunday)—Newton Hall 204 on the Campus of SUNY Geneseo

8:30 WELCOME AND INTRODUCTION
President Denise Battles and D. Jeffrey Over

Devonian Stratigraphy and Structure—Linda Ivany and Nicholas Hogancamp, presiding

8:45 THE DEVONIAN IN NEW YORK AND NORTH AMERICA/LAURENTIA
Ver Straeten, C. A.

9:15 BASAL EMSIAN GSSP – POSSIBILITIES IN THE PRAGUE SYNFORM
Slavík, L., Weinerová, H., Weiner, T., and Hladil, J.

9:35 MARINE STRATA OF THE MIDDLE AND UPPER HAMILTON GROUP (MIDDLE DEVONIAN, LOWER GIVETIAN), EASTERN OUTCROP BELT IN NEW YORK STATE
Bartholomew, A. J., and Ver Straeten, C. A.

9:55 DEVONIAN CONODONT STRATIGRAPHY AND FACIES DEVELOPMENT OF THE AZROU REGION (EASTERN PART OF WESTERN MOROCCAN MESETA)
Aboussalam, Z. S., Becker, R. T., Hartenfels, S., and El Hassani, E.

10:15–10:40 Coffee and Posters

10:40 STRUCTURAL INFLUENCE ON DEVONIAN BLACK SHALE DEPOSITION IN SOUTHWESTERN NEW YORK STATE: BASIN ARCHITECTURE DRIVEN BY CRUSTAL SCALE THRUST LOADING TO THE EAST AND TO THE SOUTH/SOUTHEAST
Jacobi, R. D., and Smith, G. J.

11:00 SUMMARIZING A DECADE OF DEVONIAN SUBSURFACE MAPPING IN OHIO BY THE OHIO GEOLOGICAL SURVEY
Waid, C. B. T.

11:20 NORTHWEST THINNING OF FAMENNIAN BEDS IN WESTERN NEW YORK STATE
Vaughan, R. C.

11:40 NEW OBSERVATIONS IN END-DEVONIAN TO BASAL TOURNAISIAN SUCCESSION IN OHIO RELEVANT TO THE NEED FOR RENEWED, DETAILED CHRONOSTRATIGRAPHIC STUDY OF CONTINUOUS OUTCROP SECTIONS.
Baird, G. C., Over, D. J., Hannibal, J. T., McKenzie, S. C., Harper, J. A., and Tesmer, I. H.

12:00 FAMENNIAN TO EARLY TOURNAISIAN DEPOSITIONAL SEQUENCES FROM THE WILLISTON BASIN AND SURROUNDING AREAS, NORTHWESTERN UNITED STATES.
Hogancamp, N. J., Hohman, J. C., Guthrie, J. M., and Rodriguez, A. P.

12:20–1:20 Lunch

Ecological and Evolutionary Studies—Elizabeth Dowding and James Zambito, presiding

1:20 ENVIRONMENTAL STASIS AND VOLATILITY: DRIVERS OF ECOLOGICAL-EVOLUTIONARY PATTERN AND MACROEVOLUTIONARY PROCESS IN THE DEVONIAN APPALACHIAN BASIN
Brett, C. E., Baird, G. C., Bartholomew A., Ivany, L. C., and Zambito, J.

- 1:40 THE CENTRAL ASIAN OROGENIC BELT (WESTERN CHINA AND MONGOLIA) WAS A BIODIVERSITY HOTSPOT IN THE LATE DEVONIAN
Waters, J. A., Waters, J. W., Carmichael, S. K., Königshof, P., Munkhjargal, A. and Gonchigdorj, S.
- 2:00 REVISION OF LATEST SILURIAN–MID-DEVONIAN BRACHIOPOD FAUNAS FROM THE RHENISH MASSIF (GERMANY): STATE OF THE ART AND PERSPECTIVES
Jansen, U.
- 2:20 LATE DEVONIAN CRINOID AND BLASTOID GHOST LINEAGES
McIntosh, G. C.
- 2:40–3:00 Coffee and Posters

Devonian Magnetic Field and Terrestrial Strata—Annique van der Boon and Charles Ver Straeten, presiding

- 3:00 DEVONIAN TERRESTRIAL SYSTEM IN NEW YORK STATE
Ver Straeten C. A.
- 3:20 MAPPING THE MIDDLE AND UPPER DEVONIAN MARINE-NONMARINE TRANSITION IN THE APPALACHIAN BASIN FROM WEST VIRGINIA TO NEW YORK
Doctor, D. H., and Pitts, A. D.
- 3:40 THE QUEST FOR THE DEVONIAN MAGNETIC FIELD: AN UPDATE
van der Boon, A.
- 4:00 Posters
- 4:30 SDS Business Meeting followed by IGCP 652 Business Meeting

31 July 2023 (Monday)

Excursion to Niagara Falls: leader Carlton Brett; meet in Quality Inn Parking Lot at 8:00 a.m.

Excursion to Tioga, Pennsylvania, and Frasnian-Famennian strata: leader Andrew Bush; meet in Quality Inn Parking Lot at 8:15 a.m.

01 August 2023 (Tuesday)—Newton Hall 204 on the Campus of SUNY Geneseo

Devonian Extinctions and geochemistry—Diana Boyer and Nina Wichern, presiding

- 8:20 UPPER DEVONIAN LOWER AND UPPER KELLWASSER EXTINCTION RECORD IN THE SWEETLAND AND GRASSY CREEK SHALES IN THE IOWA BASIN OF CENTRAL NORTH AMERICA
Day, J., and Long, G.

- 8:40 TIMING OF THE LATE DEVONIAN KELLWASSER CRISIS: CYCLOSTRATIGRAPHIC ANALYSIS OF THE JAVA GROUP AT THE WALNUT CREEK SECTION, NEW YORK, USA
Klisiewicz, J. , Wichern N. , Over, D. J., Tuskes, K., Hinnov, L. A., and De Vleeschouwer, D.
- 9:00 GEOCHEMICAL AND SEDIMENTOLOGICAL ANALYSIS OF THE UPPERMOST DEPOSITS OF THE UPPER DEVONIAN HANOVER SHALE IN WESTERN NEW YORK STATE
Blood, D. R., McCallum, S. D., and Douds, A. S. B.
- 9:20 DECIPHERING THE ROLE OF TERRESTRIAL/ATMOSPHERIC INTERACTIONS IN LATE DEVONIAN KELLWASSER BLACK SHALE DEPOSITION: A HIGH-RESOLUTION CYCLOSTRATIGRAPHIC STUDY OF THE WINSENBERG SECTION (RHENISH MASSIF, GERMANY)
Wichern, N. M. A., Bialik, O. M., Nohl, T. , Percival, L. M. E., Kaskes, P., Becker, R. T., and De Vleeschouwer, D.
- 9:40 PYRITE FRAMBOID DISTRIBUTIONS AS INDICATORS OF ANOXIA: CAN WE USE THEM IN SHALLOW WATER ENVIRONMENTS?
Carmichael, S. K., Waters, J. A., and Boyer, D. L.

10:00–10:30 Coffee and Posters

- 10:30 LATE DEVONIAN TO EARLY CARBONIFEROUS INTERVALS (D/C TRANSITIONS) FROM MONGOLIA: INSIGHTS FROM TWO DIFFERENT TERRANES.
Munkhjargal, A., Königshof, P., Waters, J. A., Carmichael, S. K., Gonchigdorj, S., Nazik, A., Crônier, C., Udchachon, M., Thassanapak, H., Roelofs, B., Duckett, K., and Foronda, J.
- 10:50 THE HANGENBERG CRISIS (DEVONIAN-CARBONIFEROUS BOUNDARY) TIMING AND CLIMATIC FORCING (CHANXHE AND ANSEREMME SECTIONS, BELGIUM).
da Silva, A. C., Arts, M., Crucifix, M., Franck, L., Huygh, J., Omar, H., and Denayer, J.
- 11:10 HYDROGRAPHIC AND GEOCHEMICAL EVOLUTION OF THE LATE DEVONIAN EPEIRIC SEAS OF NORTH AMERICA: LINKAGES BETWEEN REDOX, SALINITY, AND BIOTIC CRISES
Gilleaudeau, G. J., Remírez, M. N., Wei, W., Song, Y., Sahoo, S. K., Kaufman, A. J., and Algeo, T. J.
- 11:30 USING $\delta^{13}\text{C}_{\text{TOC}}$ CHEMOSTRATIGRAPHY TO RECOGNIZE DEVONIAN GLOBAL EVENTS IN THE NEW ALBANY SHALE (ILLINOIS BASIN, U.S.A.)
Zambito, J. J., Weldon, A. C., Farbarik, O. B., Bolin, D. L., and McLaughlin, P. I.

11:50–1:30 Lunch

Devonian Events, Cyclic Stratigraphy, and Astrochronology—Faye Higgins and David De Vleeschouwer, presiding

- 1:30 THE KINGSTON RECORD, NEW YORK STATE, U.S.A—A WINDOW TO THE DEVONIAN PALEOCLIMATE AND TO THE DURATION OF PART OF THE EMSIAN.
da Silva, A. C., Brett, C., Bartholomew, A., Ver Straeten, C., Hilgen, F., and Dekkers, M. J.
- 1:50 EXPRESSION OF THE MIDDLE DEVONIAN KAČÁK EPISODE IN THE MACKENZIE MOUNTAINS, NORTHWEST TERRITORIES, CANADA.
Gouwy, S. A.
- 2:10 IMPACT OF GLOBAL EVENTS ON THE DROWNING AND EXTINCTION OF GIVETIAN/FRASNIAN REEFS IN THE NORTHERN RHENISH MASSIF (GERMANY)
Becker, R. T., and Aboussalam, Z. S.
- 2:30 INVESTIGATING THE LINK BETWEEN DEVONIAN ANOXIC EVENTS AND ASTRONOMICAL FORCING
Huygh, J. , Gérard, J., Sablon, S., Crucifix, M., and da Silva, A. C.

2:50–3:20 Coffee and Posters

- 3:20 ASTROCHRONOLOGY OF THE HANOVER FORMATION, LATE DEVONIAN, WESTERN NEW YORK
Higgins, F., Tuskes, K., Otto, C., Over, D. J., Giorgis, S., and Slater, B.

- 3:40 BASIN-WIDE CORRELATION OF ASTRONOMICALLY FORCED CYCLES IN THE FAMENNIAN OHIO SHALE, APPALACHIAN BASIN, OHIO, USA
Hinnov, L. A., Algeo, T. J., and Lisiecki, L. E.
- 4:00 NUMERICAL SIMULATIONS OF THE EFFECTS OF ASTRONOMICAL FORCING ON NUTRIENT SUPPLY AND OXYGEN LEVELS DURING THE DEVONIAN
Crucifix, M., Sablon, L., Gerard, J., Godderis, Y., and da Silva, A.
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02 August 2023 (Wednesday)

Depart from Quality Inn at 8:00 a.m.

Stop 1: Neid Road Quarry; Silurian Devonian unconformity, Silurian, Lower Devonian, Middle Devonian strata

Stop 2: Fall Brook Glen, Middle-Upper Devonian boundary

Lunch in Geneseo

Stop 3: Taughannock Falls, Middle Devonian

Banquet “under the whale” at Paleontological Research Institution, Museum of the Earth, 1259 Trumansburg Road, Ithaca, New York. Dinner at 7:30 p.m.

Lodging at Quality Inn-Ithaca, 356 Elmira Road, Ithaca, New York

POSTERS – ISC 142

[1] REASSESSING HYDROCARBON VOLUMES OF THE DEVONIAN SHALES IN EASTERN OHIO AT MEMBER-LEVEL SCALE

Danielsen, E. M., Blood, D. R., and Waid, C. B. T.

[2] A REVISED PALAEOGEOGRAPHY FOR THE FRASNIAN-TOURNAISIAN OF ANGARIDA (SIBERIA)

Dowding, E. M., Akulov, N., Torsvik, T. H., and Markussen Marcilly, C.

[3] THE LATEST EIFELIAN-FRASNIAN HORN RIVER GROUP IN THE NORTHERN MACKENZIE MOUNTAINS AND MACKENZIE VALLEY (NW TERRITORIES, CANADA): INTEGRATED STRATIGRAPHY AND SECTION CORRELATION

Gouwy, S. A., Kabanov, P., Chan, W., Hadlari T., and Uyen, T. T.

[4] VARIABILITY, RELIABILITY, AND SIGNIFICANCE OF BRACHIOPOD $\delta^{18}\text{O}$ VALUES FROM THE MIDDLE DEVONIAN HAMILTON GROUP

Ivany, L. C., Welych-Flanagan, M., and Owens, J. C.

[5] TIMING OF THE LATE DEVONIAN KELLWASSER CRISIS: CYCLOSTRATIGRAPHIC ANALYSIS OF THE JAVA GROUP AT THE WALNUT CREEK SECTION, NEW YORK, USA

Klisiewicz, J. , Wichern N. , Over, D. J., Tuskes, K., Hinnov, L. A., and De Vleeschouwer, D.

[6] UNTANGLING THE LATE DEVONIAN CARBON CYCLE USING COMPOUND SPECIFIC ISOTOPES

Logie, T., Bhattacharya, T., Uveges, B., and Junium, C.

[7] INTEGRATED CONODONT, CARBON ISOTOPE, TRACE ELEMENT, AND SEQUENCE STRATIGRAPHIC DATA FROM THE GIVETIAN-FRASNIAN 'FRASNES EVENT' AND FALSIOVALIS EXCURSION IN IOWA AND NEVADA, USA.

McAdams, N. E. B., Day, J. E., Morgan, D., and Fiorito, A.

[8] DIVERSITY AND BODY SIZE TRENDS OF DACRYOCONARIDS ACROSS THE LATE DEVONIAN PUNCTATA EXCURSION, APPALACHIAN BASIN

Prow, A. N., Yang, Z., Lu, Z., Meehan, K.C., and Payne, J. L.

[9] KEY STRATIGRAPHIC MARKERS IN THE LATE DEVONIAN NORTH AMERICAN SEAWAY: TOWARDS A CHEMOSTRATIGRAPHIC FRAMEWORK FOR CORRELATION IN MUD-DOMINATED BASINS

Remirez, M. N., Gilleaudeau, G. J., Elrick, M., and Algeo, T. J.

[10] A UNIQUE OCCURRENCE OF *SCHIZOPHORIA* (KING, 1850) IN LOWER GIVETIAN STRATA OF EASTERN NY

Sabatino, F., Grippo, A., and Bartholomew, A. B.

[11] GEOLOGIC CROSS SECTION A-A' FROM GENESEE COUNTY, WESTERN NEW YORK, TO LYCOMING COUNTY, NORTH-CENTRAL PENNSYLVANIA, SHOWING THE REGIONAL STRUCTURAL AND STRATIGRAPHIC FRAMEWORK OF THE ALLEGHENY PLATEAU AND VALLEY AND RIDGE PROVINCES IN THE NORTHERN APPALACHIAN BASIN

Trippi, M. H.

[12] INTEGRATED STRATIGRAPHY OF MIDDLE DEVONIAN STRATA IN THE CARGILL TEST #17 CORE (LANSING CORE) OF NEW YORK STATE

Zambito, J. J., Brett, C. E., Da Silva, A.-C., Farbarik, O. B., and Willison M. J.

[13] INTEGRATED STRATIGRAPHIC AND PALEOENVIRONMENTAL STUDY OF THE MIDDLE-LATE DEVONIAN CARBONATE TO BLACK SHALE TRANSITION IN THE MICHIGAN BASIN

Zambito, J. J., Voice, P. J., Barker-Edwards, T., Giehler, M., Gugino, J., Johnson, I., O'Bryan, H., Quiroz, C., Truong, L., Wiesner, A., and Winget, M.