

Curriculum Vitae
JAMES H. MACDONALD, Jr., Ph.D.
Professor of Geology
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Dept. of Marine and Ecological Sciences
Florida Gulf Coast University
10501 FGCU Blvd South
Fort Myers, FL 33965

EDUCATION

Ph.D. University at Albany, State University of New York
Petrology, Geochemistry, & Tectonics, 2006

B.S. New Paltz, State University of New York
Environmental Geology, 1998

EMPLOYMENT

Professor of Geology, Florida Gulf Coast University, Current

Associate Professor of Geology, Florida Gulf Coast University, 2012 – 2018

Earth and Space Science Coordinator, Florida Gulf Coast University, 2010 – 2013

Assistant Professor of Geology, Florida Gulf Coast University, 2007 – 2012

Instructor of Earth and Environmental Sciences, Wright State University, 2006-2007

TEACHING EXPERIENCE AT FGCU

GLY 1000C, Physical Geology, FGCU, Fall 2007 - 2018, Spring 2008 - 2019

Introductory combined lecture/lab geology course for science and engineering majors.

GLY 2030C, Environmental Geology, FGCU, Fall 2007 - 2011, Spring 2008, 2009, 2011

Introductory combined lecture/lab environmental geology course for science and Eng. majors.

GLY 3202C, Mineralogy & Petrology, FGCU, Fall 2012, 2014 – 2016, 2018

Advanced geology elective.

GLY 3820C, Introduction to Hydrology, FGCU, Fall 2013, Spring 2016, 2018

Advanced geology course Environmental Studies majors.

GLY 3420C, Tectonics and Marine Geology, FGCU, Spring 2010, 2012, 2013, 2015, 2017, 2019

Advanced geology course used as Marine Science elective.

ISC 4930, Geologic Carbon Dioxide Sequestration, FGCU, Fall 2010

Upper division current topics course for Environmental Studies and Marine Science majors

EVR 4905, Advanced Electron Microscopy, FGCU, Fall 2015

Upper division current topics course for Environmental Studies and Marine Science majors

EVR 4905, Epidote Geochemistry, FGCU, Spring 2016

Upper division current topics course for a Marine Science major

THESIS COMMITTEE MEMBER AT FGCU

Brian Hoyer; Holocene History of the Coastal Geomorphology of Everglades National Park: The roles of reef development, tidal pond formation, and sea-level rise: M.S. in Environmental Science (2008)

Christian Ercolani; Reconstructing the prehistoric record of intense hurricane landfalls from Southwest Florida back-barrier sediments: M.S. in Environmental Science (2014)

SENIOR RESEARCH MENTOR AT FGCU

Molly Norris, Environmental Studies, mineral geochemistry research (Current)

Jessie Alexander, Environmental Studies, campus water table (2018)

Kevin Wise, Marine Science, mineral geochemistry research (2017-2018)

Bridgett Miller, Marine Science, wetland soil quality (2017)

Madison Easterbrook, Marine Science, mineral geochemistry research (2017)

Glenn Thompson, Marine Science, mineral geochemistry research (2015-2017)

Kristy Zalud, Marine Science, mineral geochemistry research (2017)

Co-mentor with Dr. Kara Lefever: Stephen Ozzello, Environmental Studies, wetland ecology (2016-2017)

Co-mentor with Dr. Win Everham: Deidra Goodwin, Environmental Studies, groundwater hydrology (2015-2016)

Alex Maruszczak, Marine Science, mineral geochemistry research (2015-2016)

Shanna Stingu, Marine Science, rock geochemistry research (2014-2015)

Scott Milliken, Marine Science, mineral geochemistry research (2013-2014)

Michael Saenz, Environmental Studies, FGCU Food Forest soil quality (2012-2013)

Bryn Foster, Environmental Studies, wetland soil quality (2011-2012)

Ashley Girt, Marine Science, USGS Fort Myers Florida Water Science Center (2011-2012)

HONORS CONTRACTS AT FGCU

Lauren Alvaro, San Andreas Fault Observatory at Depth research paper (Spring 2019)

James Javaruski, X-Ray Identification of Minerals from Physical Geology Course (Fall 2017)

Lexi Siegle, Mineral Classification and Determination via a Powered X-ray Diffractometer (Fall 2016)

Shanna Stingu, Student Teaching assistant in Physical Geology Lab (Spring 2013 & Fall 2014)

Sonya Padfield, Ecology of a mid-ocean ridge hydrothermal vent system (Spring 2013)

DEPARTMENT SERVICE

Search committee member for Earth and Space Science Instructor I (Fall 08 -- Spring 09)

Search committee member for Assistant/Associate Professor of Physics (Fall 09 -- Spring 10)

College of Arts and Science Undergraduate Curriculum Committee, Marine and Ecological Sciences representative (Fall 09 – Spring 11)

Chair, search committee for Assistant Professor of Paleoclimatology (Fall 10 – Spring 11)

Earth and Space Science Program Coordinator (Fall 10 – Fall 12)

Marine and Ecological Sciences Department Leadership Team (Fall 10 – Fall 12)
Faculty mentor to an Environmental Science Instructor I (Past)
Faculty mentor to Assistant Professor of Geology/Paleoclimatology (Past)
Search committee member for Environmental Studies Instructor I (Fall 14 – Spring 15)
Faculty mentor to a Faculty member under a probationary period (2016 – 2017)
Faculty mentor to Instructor I of Geology (Past)
Faculty mentor to Instructor I of Environmental Studies (Current)

COLLEGE SERVICE

Chair of the College of Arts and Science Undergraduate Curriculum Committee (Fall 09 – Spring 11)
Search committee member for College of Arts and Sciences Academic Advisor I (Spring 09)
Search committee member for College of Arts and Sciences Academic Advisor I (Summer 10 – Fall 10)
Search committee member for College of Arts and Sciences Academic Advisor I (Summer 11)
Search committee member for Anthropology Instructor I (Fall 11 – Spring 12)
College of Arts and Science reorganization group (Fall 12)
Earth and Space Science coordinator for the FGCU STEM competitions (Spring 13 – Spring 15)
Co-Chair College of Arts and Science Peer Review and Support Committee (Fall 13 – Spring 15)
Member of the College of Arts and Science out-of-unit faculty promotion committee (Spring 16)

UNIVERSITY SERVICE

University Undergraduate Curriculum Team member (Fall 09 – Spring 11)
Search committee member for Associate Professor of Educational Technology (Summer 10)
Added new course GLY 2030C, Environmental Geology
Added new course GLY 3420C, Tectonics and Marine Geology
Added new course GLY 4930, Special Topics in Geology
Added new course PHY 4930, Special Topics in Physics
Added new course AST 4930, Special Topics in Astronomy
Added Earth and Space Science Minor at FGCU
Revised course GLY 1010C, Physical Geology
Co-added new course GLY 2100C, Historical Geology
Added new course GLY 3202C, Mineralogy & Petrology
Added new course GLY 3820C, Introduction to Hydrology
Added new course GLY 4400C, Structural Geology
Added new course GLY 4892, Senior Capstone: Env Geology
Added Geology Minor at FGCU
Added Environmental Geology B.S. degree at FGCU
Interview Panel member for Coordinator of Graduate Studies (Summer 14 – Spring 15)

Interview Panel member for Graduate Studies Admissions Officer (Spring 15)

Labor and Management Committee (2018 – 2019)

Professional Development Enhancement Award team (2018 – 2019)

Florida Gulf Coast University Faculty Senator (2015 – Current)

Commencement Committee (Current)

Council of Deans (Current)

FGCU Faculty Senate President (Current)

FGCU Board of Trustee Member (Current)

PROFESSIONAL SERVICE

Co-Chair Structural Geology and Tectonics I Session: Geological Society of America 104th Annual Cordilleran Section Meeting (Spring 08)

Florida State University System Common Prerequisite committee (Fall 08 – Spring 10)

USGS Florida Water Science Center, Fort Myers office, FGCU liaison (2011 – 2014)

Geological Society of America Campus Representative for Florida Gulf Coast University (2007 – Current)

Vice President, Everglades Geological Society (2014 – 2016)

Director, Everglades Geological Society (2016 – 2017)

Co-Chair, Engaging Students through Course-Based Undergraduate Research Experiences (CURE) across the Geoscience Curriculum: Theme Session and Poster Session, Geological Society of America 129th Annual Meeting (Fall 2017)

US Department of Labor O*Net Online Geoscientists definition contributor (2018)

Co-Chair, Recent Advances in Cordilleran Tectonic Evolution—1: Paleozoic to Mesozoic: Theme Session and Poster Session, Geological Society of America Cordilleran Section Meeting (Spring 2019)

Co-Chair, Recent Advances in Cordilleran Tectonic Evolution—2: Cenozoic: Theme Session and Poster Session, Geological Society of America Cordilleran Section Meeting (Spring 2019)

Co-Chair, Geoscience Curriculum in the Twenty-First Century: Adapting Programs to Meet Students' Evolving Needs: Theme Session, Geological Society of America Annual Meeting (Fall 2019)

National Association of Geoscience Teachers liaison to the Geological Society of America Geoscience Education Division (Current)

PROFESSIONAL REVIEWS

Grant reviewer for the National Science Foundation Division of Earth Science, Tectonics Program

Panel reviewer for the National Science Foundation Division of Undergraduate Education (2015 & 2016)

Multiple reviews for the Geological Society of America

Multiple reviews for *Geochimica et Cosmochimica Acta*

Grant review for the National Research Foundation, Department of Science and Technology, Republic of South Africa (2011)

Reviewer of the Geoscience Concept Inventory version 2.1.1

Eight textbook reviews for Cambridge University Press, Cengage Learning, Jones & Bartlett Learning, Norton & Company publishing, Prentice Hall Publishing, and Waveland Press

GRANTS AWARDED/SUBMITTED

NSF Transforming Undergraduate Education in STEM, Type 2: Collaborative: Expanding the Use of Online Remote Electron Microscopy in the Classroom to Transform Undergraduate Geoscience Education: Primary Investigator, 2013 – 2018, Ryan, J, Co-PI, Hickey-Vargas, R., Co-PI, MacDonald, J., Co-PI, Beck, M., \$625,344 total awarded (\$74,510 awarded to MacDonald)

NSF Improving Undergraduate STEM Education: Pathways into Geoscience (IUSE: GEOPATHS -EXTRA): GP-EXTRA: Establishing high-impact curriculum to attract and retain students in a new environmental geology program, pilot project, 2019-2021, MacDonald, lead-PI, Abercrombie, Barbosa, Muller, and Savarese, Co-PIs, \$150,000

FGCU Scholarship-Research Venture Capital Fund award, lead PI, 2019, \$14,662.50

FGCU Scholarship-Research Venture Capital Fund award, Co-PI, 2019, \$15,285

FGCU Office of Undergraduate Research mini-grant, 2013, \$500.00

FGCU Professional Development Grant, Spring 2019, \$1200

FGCU Professional Development Grant, Fall 2016, \$1095

FGCU Professional Development Grant, Fall 2015, \$1500

FGCU Professional Development Grant, Fall 2014, \$1479.88

FGCU Professional Development Grant, Fall 2013, \$1372.41

FGCU Professional Development Grant, Fall 2012, \$1452.70

FGCU Professional Development Grant, Fall 2011, \$1626.30

FGCU Professional Development Grant, Spring 2011, \$976.25

FGCU Professional Development Grant, Fall 2009, \$1547.55

FGCU Professional Development Grant, Spring 2008, \$825.45

FGCU Office of Research and Sponsored Programs Internal Grant Program, 2010, \$5000.00

FGCU Office of Research and Sponsored Programs Internal Grant Program, 2009, \$4685.00

FGCU Whitaker Center for STEM Education Faculty Research and Development Grant, Spring 2008, \$500

AWARDS/HONORS

American Association for the Advancement of Science and National Science Foundation's Division of Undergraduate Education invited symposium: Envisioning the Future of Undergraduate STEM Education: Research and Practice, invited to present science education research. <http://www.enfusestem.org/>

Faculty Member, Whitaker Center for STEM Education (2007–2017)

Associate Member of the Graduate Faculty, Florida Gulf Coast University

Winthrop D. Means teaching award, Earth & Atmos. Sci., SUNY Albany

Wright State University Department of Intercollegiate Athletics Scholar-Athletes: Recognized for assisting a Student-Athlete achieve academic excellence

INVITED TALKS

Florida International University: Title of talk: The Manastash inlier, Cascades, Washington: record of a Late Jurassic ridge subduction. Fall 2015

University of Florida: Title of talk: Late Jurassic tectonic development of the central Cascades, Washington. Spring 2014

Everglades Geological Society: Title of talk: Tectonic Development of the Florida Basement. Spring 2013

Florida Gulf Coast University, Whitaker Center for STEM Education: Title of talk: Tectonics, Geochemistry, Their Interconnection and Importance: ROCKS -- They Know More Than You Think They Do! Fall 2007

Wright State University: Title of talk: Tectonic evolution of the Ingalls ophiolite complex, central Cascades, Washington. Spring 2007

PROFESSIONAL MEMBERSHIPS

Geological Society of America; Geochemical Society;

American Geophysical Union; National Association of Geoscience Teachers

PUBLICATIONS

Peer Reviewed Papers & Book Chapters

Harper, G. D., Miller, R. B., **MacDonald**, J. H., Jr., Miller, J. S., and Mlinarevic, A. N., 2003, Evolution of a polygenetic ophiolite: the Jurassic Ingalls Ophiolite, Washington Cascades: *in* Swanson, T. W., ed., Western Cordillera and adjacent areas: Boulder, Colorado, Geological Society of America Field Guide 4, p. 251-265, doi:10.1130/0-8137-0004-3.251.

MacDonald, J.H., Jr., Harper, G.D., and Zhu, B., 2006, Petrology, geochemistry, and provenance of the Galice Formation, Klamath Mountains, Oregon–California, *in* Snoke, A.W., and Barnes, C.G., eds., Geological studies in the Klamath Mountains province, California and Oregon: Boulder, Colorado, Geological Society of America Special Paper 410, p. 77-101, doi:10.1130/2006.2410(04).

MacDonald, J.H., Jr., Harper, G.D., Miller, R.B., Miller, J.S., Mlinarevic, A.N., and Schultz, C.E., 2008, The Ingalls ophiolite complex, central Cascades, Washington: Geochemistry, tectonic setting, and regional correlations, *in* Wright, J.E., and Shervais, J.W., eds., Ophiolites, Arcs, and Batholiths: A Tribute to Cliff Hopson: Geological Society of America Special Paper 438, p. 133–159, doi:10.1130/2008.2438(04).

MacDonald, J.H., Jr., Harper, G.D., Miller, R.B., Miller, J.S., Mlinarevic, A.N., and Miller, B.V., 2008, Geochemistry and geology of the Iron Mountain unit, Ingalls ophiolite complex, Washington: Evidence for the polygenetic nature of the Ingalls complex, *in* Wright, J.E., and Shervais, J.W., eds., Ophiolites, Arcs, and Batholiths: A Tribute to Cliff Hopson: Geological Society of America Special Paper 438, p. 161–173, doi:10.1130/2008.2438(05).

MacDonald, J.H., Jr., and Dragovich, J. D., 2015, Sedimentary geochemistry of the Peshastin Formation and Darrington Phyllite, Cascade Mountains, Washington State: Provenance, tectonic setting, and regional implications, *in* Anderson, T.H., Didenko, A.N., Johnson, C.L., Khanchuk, A.I., and MacDonald, J.H., Jr., eds., Late Jurassic Margin of Laurasia—A Record of Faulting Accommodating Plate Rotation: Geological Society of America Special Paper 513, p. 441–460, doi:10.1130/2015.2513(12).

Metzger, E.P., Miller, R.B., Harper, G.D., and **MacDonald**, J.H., Jr., 2016, Geochemistry of mafic rocks in the Crystalline core of the north Cascades and possible correlatives: Tectonic implications: *in*, Cheney, E.S., ed., The Geology of Washington and Beyond: from Laurentia to Cascadia: University of Washington Press, p. 156-180.

MacDonald, J.H., Jr., and Schoonmaker, A., 2017, Evidence of a Late Jurassic ridge subduction event: Geochemistry and age of the Quartz Mountain stock, Manastash inlier, central Cascades, Washington: Journal of Geology, v. 125, p. 423–438, doi.org/10.1086/692099.

MacDonald, J.H., Jr., Dragovich, J., Pecha, M., Thompson, G.T., Stingu, S.C., Maruszczak, A.D., Zalud, K.M., and Milliken, S.H., 2017, Mesozoic terranes of the central Cascades: Geology of the Hicks Butte complex, Easton Metamorphic Suite, Peshastin Formation and Ingalls ophiolite complex, in Haugerud, R.A., and Kelsey, H.M., eds., From the Puget Lowland to East of the Cascade Range: Selected Geologic Excursions in the Pacific Northwest: Geological Society of America Field Guide 49, p. 79–100, doi:10.1130/2017.0049(05).

Edited Books

MacDonald, J. H., Jr., 2008, editor, GLY 1000C: Physical and Historical Geology Manual: Plymouth, Michigan, Hayden-McNeil Publishing, 108 p., ISBN 978-0-7380-2885-9

Anderson, T.H., Didenko, A.N., Johnson, C.L., Khanchuk, A.I., and **MacDonald, J.H., Jr.**, eds., 2015, Late Jurassic Margin of Laurasia—A Record of Faulting Accommodating Plate Rotation: Boulder, Colorado, Geological Society of America Special Paper 513, 606 p., ISBN 978-0-8137-2513-0

Peer Reviewed Geologic Maps

Dragovich, J.D., Littke, H.A., Anderson, M.L., Hartog, R., Wessel, G.R., DuFrane, S.A., Walsh, T.J., **MacDonald, J.H., Jr.**, Mangano, J.F., and Cakir, R., 2009, Geologic map of the Snoqualmie 7.5-minute quadrangle, King County, Washington: Washington Division of Geology and Earth Resources Geologic Map GM-75, scale 1:24,000, 2 sheets.

Dragovich, J.D., Littke, H.A., Anderson, M.L., Wessel, G.R., Koger, C.J., Saltonstall, J.H., **MacDonald, J.H., Jr.**, Mahan, S.A., DuFrane, S.A., and Hartog, R., 2010, Geologic Map of the Carnation 7.5-minute Quadrangle, King County, Washington: Washington Division of Geology and Earth Resources Geologic Map OFR-2010-1, scale 1:24,000, 1 sheet with 21 p. text.

Dragovich, J.D., Anderson, M.L., Mahan, S.A., **MacDonald, Jr., J.H.**, McCabe, C.P., Cakir, R., Stoker, B.A., Villeneuve, N.M., Smith, D.T., and Bethel, J.P., 2012, Geologic map of the Lake Joy 7.5-minute quadrangle, King County, Washington: Washington Division of Geology and Earth Resources, Map Series 2012-01, 2 sheets, 79 p.

Dragovich, J.D., Littke, H.A., Mahan, S.A., Anderson, M.L., **MacDonald, J.H., Jr.**, Cakir, R., Stoker, B.A., Koger, C.J., Bethel, J.P., DuFrane, S.A., Smith, D.T., and Villeneuve, N.M., 2013, Geologic map of the Sultan 7.5-minute quadrangle, King and Snohomish County, Washington: Washington Division of Geology and Earth Resources Geologic Map 2013-01, scale 1:24,000, 1 sheet, 49 p.

Dragovich, J.D., Frattali, C.L., Anderson, M.L., Mahan, S.A., **MacDonald, J.H., Jr.**, Stoker, B.A., Smith, D.T., Koger, C.J., Cakir, R., DuFrane, S.A., and Sauer, K.B. 2014, Geologic map of the Lake Chaplain 7.5-minute quadrangle, Snohomish County, Washington: Washington Division of Geology and Earth Resources Geologic Map 2014-01, scale 1:24,000, 1 sheet, 51 p.

Dragovich, J.D., Mahan, S.A., Anderson, M.L., **MacDonald, J.H., Jr.**, Schliter, J.F., Frattali, C.L., Koger, C.J., Smith, D.T., Stoker, B.A., DuFrane, S.A., Eddy, M., Cakir, R., and Sauer, K.B., 2015, Geologic Map of the Lake Roesiger 7.5-minute Quadrangle, Snohomish County, Washington: Washington Division of Geology and Earth Resources Geologic Map 2015-01, scale 1:24,000, 1 sheet, 47 p.

Peer Reviewed Teaching Material Contribution

MacDonald, J. H., Jr. and Holbik, S., 2015. Feldspar mineral chemistry using the FCAEM remotely operable electron probe micro-analyzer: Science Education Resource Center (SERC), On the Cutting Edge, Teaching Mineralogy Topical Resources. <https://serc.carleton.edu/113287>

Reviewed Open File Reports

- Dragovich, J. D., Littke, H. A., **MacDonald**, J. H., Jr., DuFrane, S. A., Anderson, M. L., Wessel, G. R., and Hartog, R., 2009, Geochemistry, geochronology, and sand point count data for the Snoqualmie 7.5-minute quadrangle, King County, Washington: Washington Division of Geology and Earth Resources Open File Report 2009-4, 3 digital appendices, 35 p.
- Dragovich, J.D., Anderson, M.L., **MacDonald**, J.H., Jr., Hartog, R., Mahan, S.A., DuFrane, S.A., Littke, H.A., Wessel, G.R., Saltonstall, J.H., and Koger, C.J., 2010, Supplement to the geologic map of the Carnation 7.5-minute quadrangle, King County, Washington—Geochronologic, geochemical, point count, geophysical, earthquake, fault, and neotectonic data: Washington Division of Geology and Earth Resources Open File Report 2010-2, 8 digital appendices, 42 p.
- Dragovich, J.D., Mahan, S.A., Anderson, M.L., **MacDonald**, J.H., Jr., Wessel, G.R., DuFrane, S.A., Cakir, R., Bowman, J.D., and Littke, H.A., 2011, Supplement to the Geologic Map of the Monroe 7.5-minute Quadrangle, King and Snohomish Counties, Washington— Geochronologic, Geochemical, Point Count, Geophysical, Earthquake, and Fault, and Neotectonic Data: Washington Division of Geology and Earth Resources Open File Report 2011-2, 61 p., 2 plates, 2 digital appendices.
- Dragovich, J.D., Anderson, M.L., Mahan, S.A., Koger, C.J., Saltonstall, J.H., **MacDonald**, J.H., Jr., Wessel, G.R., Stoker, B.A., Bethel, J.P., Labadie, J.E., Cakir, R., Bowman, J.D., and DuFrane, S.A., 2011, Geologic Map of the Monroe 7.5-minute Quadrangle, King and Snohomish Counties, Washington: Washington Division of Geology and Earth Resources Geologic Map OFR-2011-1, scale 1:24,000, 1 sheet with 24 p. text.
- Dragovich, J.D., Mavor, S.P., Anderson, M.L., Mahan, S.A., **MacDonald**, J.H., Jr., Tepper, J.H., Smith, D.T., Stoker, B.A., Koger, C.J., Cakir, R., DuFrane, S.A., Scott, S.P., and Justman, B.J., 2016, Geologic map of the Granite Falls 7.5-minute quadrangle, Snohomish County, Washington: Washington Division of Geology and Earth Resources Map Series 2016-03, scale 1:24,000, 1 sheet, 63 p.

Refereed Abstracts Presented at Scientific Meetings

- #Anderson, M. L., Dragovich, J. D., Mahan, S. A., **MacDonald**, J. H., Jr., Koger, C. J., Cakir, R., Allen, M., Mavor, S., Blakely, R. J., and Wells, R. E., 2017, No strain left behind: the Puget lowland neotectonic fault network: Geological Society of America, Abstracts with Programs, v. 49, no. 6, doi: 10.1130/abs/2017AM-303304.
- Anderson, T.H., Didenko, A., Johnson, C., Khanchuk, A., and **MacDonald**, J.H., Jr., 2015, The Middle Jurassic margin of Laurasia—a record of faulting accommodating plate rotation: Geological Society of America, Abstracts with Programs, v. 47, no. 7, p. 674.
- Beck, M., Ryan, J., Vidito, C., **MacDonald**, J.H., Jr., and Hickey-Vargas, R., 2017, Using a remotely-accessed scanning electron microscope (SEM) to evaluate sands in a 2-year college earth science class: Geological Society of America, Abstracts with Programs, vol. 49, no. 2, doi: 10.1130/abs/2017NE-290720.
- Dragovich, J. D., Mahan, S. A., Anderson, M., **MacDonald**, J. H., Jr., Frattali, C. L., Littke, H. A., Stoker, B. A., Koger, C. J., Smith, D. T., and Dufrane, S. A., 2014, The Monroe fault, anticline, and synclinal basin – a potentially active fault and fold system in the Skykomish River valley, Snohomish County, Washington: Geological Society of America, Abstracts with Programs, vol. 46, no. 6, p. 779.
- Dragovich, J. D., Anderson, M. L., Mahan, S. A., **MacDonald**, J. H., Jr., Tepper, J. H., Mavor, S., Koger, C. J., Cakir, R., Stoker, B. A., Smith, D. T., and Dufrane, S. A., 2017, Geology of the Granite Falls 7.5-minute quadrangle area—a rich history of neotectonic basin development and inversion to Mesozoic accretionary tectonics in the foothills of Snohomish county, Washington: Geological Society of America, Abstracts with Programs, v. 49, no. 6, doi: 10.1130/abs/2017AM-303645.

- Dragovich, J. D., Tepper, J. H., **MacDonald**, J. H., Jr., Dufrane, S. A., Anderson, M. L., Koger, C. J., Mavor, S., *Thompson, G. T., and Eddy, M. P., 2017, Granite Falls stock and the Hansen Lake rhyolite—a history of syn-tectonic Eocene magmatism and uplift in the Pilchuck River valley during regional transtension, Snohomish county, Washington: Geological Society of America, Abstracts with Programs, v. 49, no. 6, doi: 10.1130/abs/2017AM-303468.
- Dragovich, J. D., **MacDonald**, J. H., Jr., Mahan, S. A., Anderson, M., DuFrane, S. A., Koger, C. J., Smith, D. T., Mavor, S. P., and Saltonstall, J. H., 2019, Cascade provenance of non-glacial Holocene and Pleistocene sands in the Cascade foothills and Puget lowlands of King and Snohomish counties, Washington—a rich history of Snoqualmie, Skokomish and Pilchuck River basin development and neotectonics during the Quaternary: Geological Society of America, Abstracts with Programs, v. 51, no. 4, doi: 10.1130/abs/2019CD-329352
- *Easterbrook, M. A., and **MacDonald**, J. H., Jr., 2017, Mineral chemistry of the Camas Land diabase, central Cascades, Washington: a sill within the Eocene Chumstick Formation: Geological Society of America, Abstracts with Programs, v. 49, no. 6, doi: 10.1130/abs/2017AM-301296.
- *Foster, B. A., **MacDonald**, J. H., Jr., and *Girt, A. D., 2012, Restoration revisited: comparative analysis of soils within a created and natural wetland at Florida Gulf Coast University, Fort Myers, Florida: Geological Society of America, Abstracts with Programs, vol. 44, no. 4, p.5.
- Goodwin, B. P., Waines, R. H., and **MacDonald**, J. H., Jr., 2003, Preliminary stratigraphy and structure of a medial Ordovician Mount Merino inlier within the Livingston Taconic tectonic thrust slice in west-central Dutchess County, mid-Hudson valley, New York: Geological Society of America Abstracts with Programs, v. 35, no. 3, p. 94.
- Hickey-Vargas, R., Holbik, S., Ryan, J., **MacDonald**, J.H., Jr., and Beck, M., 2015, Expanding the Use of Online Remote Electron Microscopy in the Classroom to Transform Undergraduate Geoscience Education: Successes and strategies for increasing faculty and student engagement: American Geophysical Union Fall Meeting, Abstracts with Programs, Paper number ED11C-0865.
- Holbik, S., Ryan, J., Hickey-Vargas, R., **MacDonald**, J. H., Jr., and Beck, M.A., 2015, Enabling and facilitating undergraduate research through the use of remotely operable EPMA and SEM instrumentation in introductory and upper-level geoscience curriculum: early success and challenges: Geological Society of America, Abstracts with Programs, v. 47, no. 7, p. 621.
- Holbik, S., Ryan, J. G., Hickey-Vargas, R., **MacDonald**, J. H., Jr., Beck, M. A., and Vidito, C., 2017, Transforming undergraduate education in the geosciences using remotely-operated electron probe microanalyzer and scanning electron microscope: CUREs: Geological Society of America, Abstracts with Programs, v. 49, no. 6, doi: 10.1130/abs/2017AM-306942.
- Littke, H. A., Dragovich, J. D., Anderson, M., Hartog, R., Wessel, G. R., Dufrane, S. A., Walsh, T. J., **MacDonald**, J. H., Jr., and Cakir, R., 2009, Geologic map of the Snoqualmie 7.5-minute quadrangle, King County, Washington—active faulting, basin inversion and Miocene volcanic extrusion of the Snoqualmie batholith along the Rattlesnake Mountain fault zone: Geological Society of America, Abstracts with Programs: v. 41, no. 7, p. 457.
- ***MacDonald**, J.H., Jr., Harper, G.D., Miller, R.B., and Miller, J.S., 2002, Within-plate magmatic affinities of a lower pillow unit in the Ingalls Ophiolite Complex, northwest Cascades, Washington: Geological Society of America, Abstracts with Programs, v. 34, no. 5, p. 22.
- MacDonald**, J. H., Jr., Harper, G. D., and Miller, R. B., 2003, The De Roux unit of the central Cascades, Washington: geochemistry, tectonic setting, and possible correlations: Geological Society of America Abstracts with Programs, v. 35, no. 6, p. 513.

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