

Curriculum Vitae – BESIM DRAGOVIC

EDUCATION

- 2013 Ph.D., Earth Sciences – Boston University, Boston, MA
Dissertation: *Constraining the rates and timescales of garnet growth and associated dehydration during metamorphism*
Advisor: Ethan F. Baxter
- 2003 M.S., Geological Sciences – University of Connecticut, Storrs, CT
Thesis: *Distribution of plagioclase phenocrysts in the Holyoke flood basalt, CT*
Advisor: Anthony R. Philpotts
- 1999 B.A., Earth Sciences – Boston University, Boston, MA

CURRENT AND PAST APPOINTMENTS

- 2019-present Assistant Professor, University of South Carolina
- 2016-2021 Adjunct Research Faculty, Virginia Tech
- 2019 Research Scientist, Virginia Tech
- 2016-2019 Postdoctoral Research Associate, Boise State University
- 2013-2016 Postdoctoral Associate, Virginia Tech
- 2007-2012 Graduate Student Researcher and Teaching Assistant, Boston University
- 2012 Instructor, ES 101 *The Dynamic Earth*, Boston University, Summer I
- 2011 Visiting Scholar, Swiss Federal Institute of Technology (ETH) Zurich, April-June
- 2002-2007 Cement and Concrete Microscopist/Chemist, W.R. Grace & Co., Cambridge, MA

AWARDS AND HONORS

- 2013 Best Graduate Student Poster/Presentation, National Science Foundation (NSF) GeoPRISMS New Zealand Planning Workshop, Wellington, New Zealand
- 2011 American Geophysical Union (AGU) Outstanding Student Paper Award, Union Section, Fall Meeting, San Francisco, CA
- 2008 Best Graduate Student Talk, Boston University Dept. of Earth Sciences student seminar series

RESEARCH AWARDS

- Dragovic, B.**, Holt, A. Collaborative Research: Examining the paleo-thermal structure of the Alpine subduction interface with an integrated petrochronology and geodynamic approach. NSF-EAR Petrology and Geochemistry and NSF-EAR Tectonics. \$399,282 (\$761,631 total) awarded. 2024.
- Barnes, J., Stockli, D.F., Gevedon, M.L., **Dragovic, B.** Collaborative Research: Rodingites as recorders of tectonic processes from the seafloor to convergence: A case study of the Dun Mountain Ophiolite Belt. NSF-EAR 2147572. \$137,781 (\$640,803 total) awarded. 2022.
- Penniston-Dorland, S.C., Piccoli, P.M., **Dragovic, B.** Collaborative Research: Developing crystal clocks in metamorphic rocks: Using lithium in subduction zone garnets to decipher fluid release timescales. NSF-EAR 2122513. \$314,922 (\$654,867 total) awarded. 2021.
- Penniston-Dorland, S.C., van Keken, P., Wada, I., **Dragovic, B.** GeoPRISMS Collaborative Research: Constraining the thermal conditions of the subduction interface by integrating petrology and geodynamics. NSF-EAR 2037543. \$99,324 (\$396,291 total) awarded. 2019.
- Kohn, M.J. (PI, Boise State University), Penniston-Dorland, S.C. (co-PI, University of Maryland) & Feineman, M. (co-PI, Pennsylvania State University), 8 additional senior personnel at 7 U.S. institutions. NSF-OIA 1545903. NSF Partnerships for International Research & Education. “*PIRE: ExTerra Field Institute and Research Endeavor (E-FIRE)*.” **Co-Investigator**, ~\$4.0m awarded. 2015.

- Caddick, M.J., **Dragovic, B.** Durations and rates of high temperature metamorphism during Archean orogenesis: implications for early Earth tectonics. NSF-EAR 1447568. \$363,761 awarded. 2015.
- Caddick, M.J., **Dragovic, B.** Supplement to NSF-EAR 1447568 for purchase of research instrumentation. NSF-EAR Petrology and Geochemistry. \$21,969 awarded. 2015.
- Caddick, M.J., **Dragovic, B.** Coordinated and drafted the institutional mini-grant awarded by the Institute for Critical Technology and Applied Science at Virginia Tech for method development on measuring lithium stable isotope zonation in garnet using Secondary Ion Mass Spectrometer (SIMS). \$1500 awarded. 2014

PEER-REVIEWED PUBLICATIONS (*denotes graduate student advisee)

- Starr, P.G., Scambelluri, M., Agard, P., **Dragovic, B.**, Baxter, E.F., *in revision*. Early Alpine subduction (67 Ma) and supra-subduction accretion of oceanic lithospheric mantle (Erro Tobbio Massif, Italy).
- Penniston-Dorland, S.C., Wada, I., Raia, N.H., Steele, A., Bullock, E.S., Zhou, X., **Dragovic, B.**, van Keken, P.E., *in review*. Constraining the thermal structure of the subduction plate interface: Coupled petrologic and geodynamic study of high-pressure rocks of New Caledonia.
- Schwarzenbach, E., **Dragovic, B.**, Codillo, E., Streicher, L., Scicchitano, M.R., Wiechert, U., Klein, F., Marschall, H., Scambelluri, M., 2024. Mobilization of isotopically heavy sulfur during serpentinite subduction. *Science Advances*, **10**, eadn0641.
- Du, K.-Y., Cheng, H., **Dragovic, B.**, Cao, C., 2023. Dating corona formation in high-grade rocks: Integrated garnet and zircon petrochronology on the Miyun granulite in the North China Craton. *Contributions to Mineralogy and Petrology*, **178**:94.
- Zhou, Y., Cheng, H., Peng, Z., **Dragovic, B.**, Fu, Y., Du, K.-Y., 2023. Consistent garnet Lu–Hf and Sm–Nd ages indicate short-lived high-pressure metamorphism and rapid subduction in the Changning–Menglian orogenic belt, southeastern Tibetan Plateau. *Journal of Metamorphic Geology*, **41**, 1031-1047.
- Codillo, E., Klein, F., **Dragovic, B.**, Marschall, H., Baxter, E., Scambelluri, M., Schwarzenbach, E., 2022. Fluid-mediated mass transfer between mafic and ultramafic rocks in subduction zones. *Geochemistry, Geophysics, Geosystems*, **23**, e2021GC010206. <https://doi.org/10.1029/2021GC010206>
- Li, X.-M., Cheng, H., **Dragovic, B.**, Du, K.-Y., Zhou, Y., 2022. Multi-mineral petrochronology on a high-pressure mafic granulite reveals short-lived high-temperature metamorphism in the North China Craton. *Journal of Metamorphic Geology*, **40**, 1447-1466.
- Hoover, W., Penniston-Dorland, S., Baumgartner, L., Bouvier, A-S., **Dragovic, B.**, Locatelli, M., Angiboust, S., Agard, P., 2022. Episodic fluid flow in an eclogite-facies shear zone: Insights from Li isotope zoning in garnet. *Geology*, **50**, 746-750.
- Holtmann, R., Muñoz-Montecinos, J., Angiboust, S., Cambeses, A., Bonnet, G., *Brown, A., **Dragovic, B.**, Gharamohammadi, Z., Rodriguez, M., Glodny, J., Kananian, A., Agard, P., 2022. Cretaceous thermal evolution of the closing Neo-Tethyan realm revealed by multi-mineral petrochronology. *Lithos*, **422-423**, 106731.
- Gorce, J.S., Caddick, M.J., Baxter, E.F., **Dragovic, B.**, Schumacher, J.C., Bodnar, R.J., Kendall, J.F., 2021. Insight into the early exhumation of the Cycladic Blueschist Unit, Syros, Greece: Combined application of zoned garnet geochronology, thermodynamic modeling and quartz thermoelastic barometry. *Geochemistry, Geophysics, Geosystems*, **22**, e2021GC009716. <https://doi.org/10.1029/2021GC009716>.
- Hoover, W.F., Penniston-Dorland, S.C., Baumgartner, L., Bouvier, A-S., Baker, D., **Dragovic, B.**, Gion, A., 2021. A method for SIMS analysis of lithium isotopes in garnet: The utility of glass reference materials. *Geostandards and Geoanalytical Research*, **45**, 477-499.
- Nagurney, A., Caddick, M.J., **Dragovic, B.**, Busse, K., 2021. The (chemical) potential for understanding overstepped garnet growth. *American Mineralogist*, **106**, 812-829.
- König, S., Kurzawa, T., Rosca, C., Varas-Reus, M.I., **Dragovic, B.**, Schoenberg, R., John, T., 2021. Selenium isotope evidence for pulsed flow of oxidative slab fluids. *Geochemical Perspectives Letters*, **17**, 27-32.
- Haws, A.A., Starr, P.G., **Dragovic, B.**, Scambelluri, M., Belmonte, D., Caddick, M.J., Broadwell, K.S., Ague, J.J., Baxter, E.F., 2021. Meta-rodingite dikes as recorders of subduction zone metamorphism and serpentinite dehydration: Voltri Ophiolite, Italy. *Chemical Geology*, **565**, 120077.

- Starr, P.G., Broadwell, K.S., **Dragovic, B.**, Scambelluri, M., Hawes, A.A., Caddick, M.J., Smye, A.J., Baxter, E.F., 2020. The subduction and exhumation history of the Voltri Ophiolite, Italy: evaluating mechanisms for high-pressure metamorphic massifs. *Lithos*, **376-377**, 105767.
- Penniston-Dorland, S.C., Baumgartner, L.P., **Dragovic, B.**, Bouvier, A-S., 2020. Li isotope zoning in garnet from Franciscan eclogite and amphibolite: The role of subduction-related fluids. *Geochimica et Cosmochimica Acta*, **286**, 198-213.
- Dragovic, B.**, Angiboust, S., Tappa, M., 2020. Petrochronological close-up on the thermal structure of a paleo-subduction zone (W. Alps). *Earth and Planetary Science Letters*, **547**, 116446.
- Guevara, V.E., MacLennan, S.A., **Dragovic, B.**, Caddick, M.J., Schoene, B., Kylander-Clark, A.R.C., Couëslan, C.G., 2020. Polyphase Archean zircon growth during slow cooling from UHT conditions: an example from the Pikwitonei Granulite Domain. *Journal of Petrology*, **61**, 1-27.
- Gerrits, A.R., Inglis, E., **Dragovic, B.**, Starr, P.G., Baxter, E.F., Burton, K., 2019. Release of oxidizing fluids in subduction zones recorded by iron isotope zonation in garnet. *Nature Geoscience*, **12** (12), 1029-1033.
- Brooks, H.L., **Dragovic, B.**, Lamadrid, H.M., Caddick, M.J., Bodnar, R., 2019. Fluid capture during exhumation of subducted lithologies: a fluid inclusion study from Sifnos, Greece. *Lithos*, **332-333**, 120-134.
- Dragovic, B.**, Gatewood, M.P., Baxter, E.F., Stowell, H.H., 2018. Fluid production rate during the regional metamorphism of a pelitic schist. *Contributions to Mineralogy and Petrology*, **173**:96, 1-16.
- Cheng, H., Vervoort, J.D., **Dragovic, B.**, Wilford, D., Zhang, L., 2018. Coupled Lu-Hf and Sm-Nd geochronology on a single eclogitic garnet from the Huwan shear zone, China. *Chemical Geology*, **476**, 208-222.
- Guevara, V.E., Caddick, M.J., **Dragovic, B.**, 2017. Rapid high-*T* decompression recorded by Archean granulites in the northern Wyoming Province: insights from petrologic modelling. *Journal of Metamorphic Geology*, **35**, 943-965.
- Baxter, E.F., Caddick, M.J., **Dragovic, B.**, 2017. Garnet – a rock-forming mineral petrochronometer. *Reviews in Mineralogy and Geochemistry*, **83**, 469-533.
- Dragovic, B.**, Guevara, V.E., Caddick, M.J., Baxter, E.F., Kylander-Clark, A.R.C., 2016. A pulse of cryptic granulite-facies metamorphism in the Archean Wyoming Craton revealed by Sm-Nd garnet and U-Pb monazite geochronology. *Precambrian Research*, **283**, 24-49.
- Gatewood, M.G., **Dragovic, B.**, Stowell, H.H., Baxter, E.F., Hirsch, D., Bloom, R., 2015. Evaluating chemical equilibrium in metamorphic rocks using major element and isotopic zoning in garnet. *Chemical Geology*, **401**, 151-168.
- Dragovic, B.**, Baxter, E.F., Caddick, M.J., 2015. Pulsed dehydration and garnet growth during subduction revealed by zoned garnet geochronology and thermodynamic modelling, Sifnos, Greece. *Earth and Planetary Science Letters*, **413**, 111-122.
- Ashley, K. T., Caddick, M.J., Steele-MacInnis, M., Bodnar, R., **Dragovic, B.**, 2014. Geothermobarometric history of subduction recorded by quartz inclusions in garnet. *Geochemistry, Geophysics, Geosystems*, **15**, 350-360.
- Dragovic, B.**, Samanta, L., Baxter, E.F., Selverstone, J., 2012. Using garnet to constrain the duration and rate of water-releasing metamorphic reactions during subduction: An example from Sifnos, Greece. *Chemical Geology*, **314-317**, 9-22.

PUBLICATIONS (MANUSCRIPTS)

- Dragovic, B.**, Caddick, M.J., *in revision*. Extremely rapid heating at the subduction interface: evidence and consequences.
- Dragovic, B.**, Guevara, V.E., Caddick, M.J., Inglis, J.D., Kylander-Clark, A.R.C., *in prep for imminent submission*. Neoproterozoic polymetamorphism revealed by zoned garnet geochronology, Wyoming Province.
- Dragovic, B.**, Penniston-Dorland, S. C., *Invited Research Article in preparation for Chemical Geology*. Lithium in garnets – insights into metamorphic fluid-rock interactions.
- Baxter, E.F., Ague, J.J., Pollington, A.D., **Dragovic, B.**, Caddick, M.J., *Invited Review Article in preparation for Lithos*. Three kinds of metamorphic pulses: geodynamic, thermodynamic, kinetic.

PUBLICATIONS (OTHER)

Dragovic, B., Starr, P.G., 2017. Report from the Field: E-FIRE: ExTerra Field Institute and Research Endeavor, Western Alps, Summer 2017. GeoPRISMS Fall 2017 Newsletter.

Dragovic, B., Penniston-Dorland, S., Feineman, M., Caddick, M.J., Stowell, H., Tulloch, A., Schwartz, J., Mortimer, N., Barnes, J., Gordon, S., Wada, I., Syracuse, E., Ague, J., Baxter, E., Hacker, B., Bebout, G., 2013. Exterra: Understanding Convergent Margin Processes Through Studies of Exhumed Terranes – GeoPRISMS New Zealand Focus Site. White Paper for NSF GeoPRISMS New Zealand Planning Workshop, Wellington, New Zealand, 2013.

RECENT ABSTRACTS (*denotes graduate student advisee; †denotes postdoc; see remainder at end of document)

Dragovic, B., Penniston-Dorland, S., 2024. Using Li in garnet as a tracer of fluid flow processes during metamorphism: 2) Insights from petrologic and geochemical modeling. AGU Fall Meeting, Washington, D.C. (*poster*)

Penniston-Dorland, S., **Dragovic, B.**, Raimondo, T., 2024. Using Li in garnet as a tracer of fluid flow processes during metamorphism: 1) Insights from trace-element analysis by LA-ICP-MS. AGU Fall Meeting, Washington, D.C. (*poster*)

†Cisneros, A., Hoover, W., Hoff, C., **Dragovic, B.**, Penniston-Dorland, S., Piccoli, P., Bouvier, A.-S., John, T., 2024. Evaluating the fluid-flow cipher code in deep subduction systems using Li isotopes in garnet: the case of the Pouébo eclogite, New Caledonia. AGU Fall Meeting, Washington, D.C. (*poster*)

Schwarzenbach, E.M., **Dragovic, B.**, Codillo, E.A., Streicher, L., Scicchitano, M.R., Wiechert, U., Klein, F., Marschall, H.R., Scabelluri, M., 2024. Transfer of 34S-enriched sulfur during subduction of serpentinite. 22nd Swiss Geoscience Meeting, Basel, Switzerland. (*oral*)

*Goswami, N., Guevara, V., Caddick, M., Couëslan, C., **Dragovic, B.**, 2024. Pressure-temperature-time constraints on the metamorphism of mafic granulites and meta-ironstones of the Pikwitonei Granulite Domain, Manitoba. Geological Society of America Annual Meeting, Anaheim, CA. (*oral*)

*Hirosky, B., **Dragovic, B.**, 2024. Timing and conditions of metamorphism and associated fluid-rock interaction of ultramafic bodies within the Ashe Metamorphic Suite, North Carolina Appalachians. Geological Society of America Annual Meeting, Anaheim, CA. (*poster*)

*Brown, A., Codillo, E., Schwarzenbach, E., Marschall, H., Scabelluri, M., **Dragovic, B.**, 2024. Molybdenum isotope systematics during reactive fluid flow in subduction zones: a case study from the Voltri Massif, Italy. Geological Society of America Annual Meeting, Anaheim, CA. (*oral*)

Penniston-Dorland, S., Wada, I., Raia, N., Zhou, X., Steele, A., Bullock, E., **Dragovic, B.**, van Keken, P., Harvey, K., 2024. Constraining past thermal conditions of the paleo-subduction plate interface at New Caledonia and the Dominican Republic: Combining petrology and geodynamics. Geological Society of America Annual Meeting, Anaheim, CA. (*oral*)

Nistor, C., Barnes, J., **Dragovic, B.**, Gevedon, M., Stockli, D., 2024. Isotopic and elemental analysis of serpentinites to determine the tectonic history of the Dun Mountain Ophiolite Belt, New Zealand. Geological Society of America Annual Meeting, Anaheim, CA. (*poster*)

Penniston-Dorland, S., Cisneros de León, A., Hoover, W., **Dragovic, B.**, Piccoli, P., Hoff, C., 2024. Garnet as an archive of fluid flow processes during subduction metamorphism: Evidence from in situ measurement of Li isotopes. EGU General Assembly, Vienna, Austria. (*oral*) (*invited*)

*Hirosky, B., **Dragovic, B.**, 2024. The legend of Greer Hollow: Taconic high-pressure metasomatism in southern Appalachia. Geological Society of America SE Sectional Meeting, Asheville, NC. (*oral*)

PROFESSIONAL SERVICE

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|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2022 | Geological Society of America, Denver, CO, Co-Convenor and Co-Chair
<i>Session title:</i> The Thermal structure of subduction zones: constraints, evolution and consequences |
| 2021 | AGU Fall Meeting, New Orleans, LA, Co-Convenor and OSPA Liaison
<i>Session title:</i> Fluids in subduction zones: transport, behavior and consequences |
| 2021 | AGU Fall Meeting, New Orleans, LA, Co-Convenor and OSPA Liaison |

2020	<i>Session title: The Metamorphic Kitchen Sink</i> AGU Fall Meeting, Virtual, Co-Convener and OSPA Liaison <i>Session title: Multidisciplinary insights into tectonic and metamorphic processes at convergent margins</i>
2020	AGU Fall Meeting, Virtual, OSPA Judge
2017-2020	Member-at-large, Geological Society of America (GSA) Research Grants Selection Committee
2018	AGU Fall Meeting, Washington, D.C., Co-Convener and Co-Chair <i>Session title: The Varied Roles of Fluids Near the Subduction Interface</i>
2018	Goldschmidt Conference, Boston, Massachusetts, Co-Convener <i>Session title: Multidisciplinary Insights into Subduction Zone Processes</i>
2017	Goldschmidt Conference, Paris, France, Co-Convener and Co-Chair <i>Session title: Metamorphic and Melting Processes: From Subduction Zones to Ultra-High Temperature Terranes</i>
2017	EGU Annual Meeting, Vienna, Austria, Student Presentation Judge
2016	AGU Fall Meeting, San Francisco, CA, OSPA Judge
2015	AGU Fall Meeting, San Francisco, CA, Co-Convener and OSPA Liaison <i>Session title: Innovative Approaches to Deciphering Metamorphic Processes</i>
2014	AGU Fall Meeting, San Francisco, CA, Primary Convener and Chair <i>Session title: Processes, Pathways, and Properties Along the Subduction Interface</i>
2014	AGU Fall Meeting, San Francisco, CA, Co-Convener <i>Session title: Advanced Techniques for Determining Elemental Composition, Isotopic Abundance, and Radioisotopic Age Using Bulk and Micro-analysis</i>
2014	AGU Fall Meeting, San Francisco, CA, OSPA Judge

PEER REVIEWS

Research grant proposals:

NSF Faculty Early Career (CAREER) Development Program
 NSF-EAR Instrumentation and Facilities
 NSF-EAR Petrology and Geochemistry
 NSF-EAR Tectonics
 Austrian Science Fund (FWF)
 Swiss National Science Foundation (SNF)
 Geological Society of America Student Research Grants

Journal manuscripts:

AGU Advances; American Mineralogist; Applied Sciences; Contributions to Mineralogy and Petrology; Earth and Planetary Science Letters; Geochemistry, Geophysics, Geosystems (G³); Geochimica et Cosmochimica Acta; Geological Society of America Bulletin; Geology; Geoscience Frontiers; Geosciences; Geosphere; Gondwana Research; International Journal of Earth Sciences; Journal of the Geological Society, London; Journal of Petrology; The Journal of Geology; Journal of Metamorphic Geology; Lithos; Lithosphere; Minerals; Nature Communications; Nature Geoscience; New Zealand Journal of Geology and Geophysics; Precambrian Research; Resources; Solid Earth; South African Journal of Geology; Tectonics

ACADEMIC SEMINAR/COLLOQUIUM LECTURES

2023	University of South Carolina – Aiken
2022	Florida State University
2021	University of Miami
2020	Five College Distinguished Lecture Series (hosted by Amherst College) State University of New York – Fredonia University of British Columbia (2) – <i>postponed (global pandemic)</i>
2019	University of Connecticut Stony Brook University University of South Carolina - Columbia
2018	Salem State University Institut de Physique du Globe de Paris (IPGP)
2017	University of Maryland

Boise State University
Freie Universität Berlin
Virginia Tech
2016 University of Alabama
2015 Ohio University
University of Maryland
2014 University of North Carolina at Chapel Hill
2013 Virginia Tech

INVITED CONFERENCE ABSTRACTS

2022 – International Eclogite Conference – Session titled: Geochronology (*keynote*)
2020 – American Geophysical Union
2020 – GeoConvention 2020, Virtual – Session titled: Evolution of cratons and cratonic margins: the role of microscale techniques to unravel Precambrian tectonic processes

INVITED WORKSHOPS

Spring 2017 Instructor – Reviews in Mineralogy and Geochemistry short course “Petrochronology: Methods and Applications” – Vienna, Austria

FIELD EXPERIENCE

Mapping and sample collection:

Dun Mountain Ophiolite, New Zealand, 2023
Blue Ridge Mountains, NC/TN, USA, 2021, 2022
Santa Catalina Island, CA, USA, 2020
Cycladic Islands, Greece, 2019
Western Alps; Italy, 2018, 2022
Western Alps; Switzerland, France, Italy, 2017
Manitoba, Canada, 2015
Eastern Beartooth Mountains, MT/WY, USA, 2014
Southeastern Vermont, USA, 2009
Cycladic Islands, Greece, 2009
Connecticut, USA, 2000
Counties Galway and South Mayo, Ireland, 1999

Teaching assistant for mineralogy course:

Central and western MA, southern NH and VT, USA, 2007-2012

TECHNICAL EXPERTISE

Expertise in thermal ionization mass spectrometry (TIMS), clean laboratory procedures, and other wet chemical techniques. Extensive use of *JEOL 8200 Superprobe* and *CAMECA SX50* electron microprobes (EMPA), laser ablation inductively-coupled mass spectrometry (LA-ICP-MS), X-ray diffraction (XRD), scanning electron microscopy (SEM), and whole-rock (e.g. X-Ray fluorescence) analysis. Use of laser Raman spectroscopy, fluid inclusion heating and freezing stage, multi-collector ICP-MS (for stable isotope analyses), differential scanning calorimetry (DCS), thermal gravimetric analysis (TGA), and National Synchrotron Light Source (NSLS) - Brookhaven National Laboratory. Extensive experience in standard preparation and optical mineralogy techniques.

Expertise in equilibrium thermodynamic software for petrological applications (i.e. *Perple_X*, *THERMOCALC*). Expertise in office and graphical software. Extensive experience in the use of *MATLAB*, *Mathematica*, and statistical software.

STUDENT RESEARCH MENTORING

M.S. Thesis or Ph.D. Dissertation, Major Advisor

2020-present Allison Brown (Ph.D.)
2021-present Nandana Goswami (Ph.D.)
2021-present Breanna Hirosky (Ph.D.)

M.S. Thesis or Ph.D. Dissertation committee, Internal reader

2023-present	Owen Jensen (Ph.D.)
2021-present	Devin Elwell (Ph.D.; Chemistry and Biochemistry)
2021-present	Meryssa Piper (Ph.D.)
2020-present	Lance Tully (Ph.D.)
2020-present	Ekaterina Rojas Kolomiets (Ph.D.)
2021-2024	Meredith Love (M.S.)
2019-2021	Sierra Patterson (M.S.)

M.S. Thesis or Ph.D. Dissertation committee, External reader

2022-present	Alaina Helm, Virginia Tech
2022-present	Valeria Turino, University of Miami
2021-present	Hoss Hostetler, University of Texas-Austin
2021-present	Christiana Hoff, University of Maryland
2022	Jan Varga, University of South Australia
2017-2021	Alexandra Nagurney, Virginia Tech – graduated Ph.D. student (Title) “ <i>Nucleation and growth of minerals in metamorphic rocks</i> ” Primary advisor: F. Marc Michel and Mark J. Caddick
2016-2020	Kirkland Broadwell, Virginia Tech – graduated Ph.D. student (Title) “ <i>From the Appalachians to the Alps: constraints on the timing, duration, and conditions of metamorphism at convergent margins</i> ” Primary advisor: Mark J. Caddick
2015-2019	Calvin Mako, Virginia Tech – graduated Ph.D. student (Title) “ <i>Heat and metamorphism in orogenic belts</i> ” Primary advisors: Rick Law and Mark J. Caddick

Research mentor for other graduate student projects:

2013-2018	Jennifer Gorce, Virginia Tech – graduated Ph.D. student – Title: “ <i>Rates and processes of subduction-related dehydration: Examples from the Aegean</i> ”
2013-2017	Victor Guevara, Virginia Tech – graduated Ph.D. student – Title: “ <i>How hot, how deep, how long: constraints on the tectono-metamorphic evolution of granulite terranes</i> ”
2013-2015	Kyle Ashley, Virginia Tech – graduated Ph.D. student – Title: “ <i>Constraining Metamorphic and Tectonic Evolution in Convergent Terranes: How Trace Elements and Mineral Inclusions Shape Mechanical and Reconstructive Models</i> ”
2013-2014	Kristen McCall, Virginia Tech – graduated M.S. student – Title: “ <i>Using Metamorphic Texture to Infer Deformation and Thermodynamic Histories</i> ”

Research mentor for undergraduate student projects:

2013-2015	Hanna Brooks, Virginia Tech – graduated B.S. student – “ <i>A complex history of fluid-rock interaction during subduction and exhumation of blueschists</i> ”
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TEACHING EXPERIENCE

Spring 2024	GEOL 305, Earth Systems Through Time, Undergraduate majors and non-majors course. School of the Earth, Ocean and Environment, University of South Carolina
Spring 2024	GEOL 520, Isotope Geology and Geochronology, Graduate and upper-level undergraduate course. School of the Earth, Ocean and Environment, University of South Carolina
Fall 2023	GEOL 101, Introduction to the Earth. Undergraduate non-majors course. School of the Earth, Ocean and Environment, University of South Carolina
Spring 2023	GEOL 725, Solid Earth Processes, Graduate student course. School of the Earth, Ocean and Environment, University of South Carolina MSCI 505, MSCI 800, GEOL 800, SEOE seminar
Fall 2022	GEOL 345, Igneous and Metamorphic Processes, Undergraduate majors course. School of the Earth, Ocean and Environment, University of South Carolina

Spring 2022	GEOL 101, Introduction to the Earth. Undergraduate non-majors course. School of the Earth, Ocean and Environment, University of South Carolina
Fall 2021	GEOL 101, Introduction to the Earth. Undergraduate non-majors course. School of the Earth, Ocean and Environment, University of South Carolina
Spring 2021	GEOL 520, Isotope Geology and Geochronology, Graduate and upper-level undergraduate course. School of the Earth, Ocean and Environment, University of South Carolina
Fall 2020	GEOL 345, Igneous and Metamorphic Processes, Undergraduate majors course. School of the Earth, Ocean and Environment, University of South Carolina
Fall 2019	GEOL 101, Introduction to the Earth. Undergraduate non-majors course. School of the Earth, Ocean and Environment, University of South Carolina
Fall 2018	Guest Lecturer, GEOS 4984/5984, <i>Sedimentary Basins</i> (lecture on detrital geo/thermochronology). Undergraduate/graduate course, Department of Geosciences, Virginia Tech Guest Lecturer, GEOS 3504, <i>Mineralogy</i> (lecture on diffusion). Undergraduate/graduate course, Department of Geosciences, Virginia Tech
Spring 2017	Instructor, GEOS 5984, <i>Rates and Dates: Isotope Geochemistry/Geochronology</i> <i>Developed and facilitated seminar on mineral-isotope systems, focused primarily on the understanding of tectonic processes.</i> 1-credit graduate seminar, Department of Geosciences, Virginia Tech
Spring 2016	Guest Lecturer, GEOS 3704, <i>Igneous and Metamorphic Petrology</i> . Undergraduate course, Department of Geosciences, Virginia Tech
Spring 2015	Guest Lecturer, GEOS 3704, <i>Igneous and Metamorphic Petrology</i> . Undergraduate course, Department of Geosciences, Virginia Tech
Fall 2014	Guest Lecturer, GEOS 5704, <i>Geochemical Thermodynamics</i> . Graduate and senior undergraduate course, Department of Geosciences, Virginia Tech
Fall 2012	Teaching Assistant, ES 101, <i>The Dynamic Earth</i> , Department of Earth and Environment, Boston University (BU)
Fall 2007/8/10/12	Teaching Assistant, ES 222, <i>Mineralogy</i> , Department of Earth and Environment, BU
Summer 2012	Instructor, ES 101, <i>The Dynamic Earth</i> , Department of Earth and Environment, BU <i>Organized and taught all lectures of an introductory level geology course, consisting of a class size of ten students. Graded problem sets and exams. Coordinated with a teaching assistant on the content of the lab exercises.</i>
Spring 2008	Teaching Assistant, ES 424, <i>Igneous and Metamorphic Petrology</i> , Department of Earth and Environment, BU
1999-2002	Teaching Assistant, GEOL 101, Introduction to Physical Geology, Department of Geological Sciences, University of Connecticut

OUTREACH AND ENRICHMENT

2020/2015	Guest teacher at the Hurley School in Boston, MA (6 th -8 th grades) on plate tectonics and geologic field experiences
2016	Instructor, Virginia Tech NanoCamp
2015/2016	Volunteer for Virginia Tech Museum of Geosciences GeoFair and Mineral Sale
2007/8/10/12	Teaching Assistant for the RoBoT (Rocks Beneath Our Toes) program, Boston University
2008/2009	Presenter for Science Fair at The Runkle School, Brookline, MA

AFFILIATIONS

Geological Society of America (Geochronology Division)
Mineralogical Society of America
Geochemical Society
American Geophysical Union
National Association of Geoscience Teachers

WORKSHOP PARTICIPATION

2021	“Phase equilibrium modeling: approaches and pitfalls” workshop, May 2021, Virtual
2020	Geochemical Society workshop titled: “PTt trajectory of metamorphic processes from a combination of pseudosection calculations, nucleation and growth simulations, and diffusion modelling using different approaches”, December 2020, Virtual

- 2019 NSF GeoPRISMS Theoretical and Experimental Institute Synthesis Workshop
San Antonio, TX
- 2018 NSF GeoPRISMS workshop – “ExTerra: Evolution of arc crust”
AGU Fall Meeting, Washington, D.C.
- 2016 NanoEarth Workshop
Virginia Polytechnic Institute and State University
- 2014 Fundamentals of 3D Quantitative Analysis of Geologic Materials Using CT
The University of Texas at Austin
- 2013 NSF GeoPRISMS New Zealand Planning Workshop
Wellington, New Zealand
- 2012 UCLA SIMS (secondary ion mass spectrometry) Workshop
University of California at Los Angeles
- 2011 NSF GeoPRISMS Metamorphic Studies Workshop
AGU Fall Meeting, San Francisco, CA
- 2011 NSF GeoPRISMS Science Plan Implementation Workshop
Bastrop, TX

UNIVERSITY/DEPARTMENTAL SERVICE

- 2022-present Top Scholars mentor – (mentee: Jordan Jeffreys; Geological Sciences major; Liam Chandler; English major)
- 2023 Top Scholars selection committee – USC Honors College
- 2020 Panelist, “First Generation Students Celebrate Success!” panel at University of South Carolina
- 2018-2019 Virginia Tech Graduate Student Research Symposium, *Judge*
- 2007-2012 Boston University Graduate Student Organization, *Earth Sciences Departmental Representative*
- 2011-2012 Graduate Student Representative at Department of Earth Sciences Faculty Meetings
- 2007-2010 Boston University Graduate Student Organization, *Treasurer*

COLLABORATORS

Matteo Alvaro (Università di Pavia), Samuel Angiboust (IPGP), Jamie Barnes (University of Texas-Austin), Lukas Baumgartner (L'Université de Lausanne), Ethan Baxter (Boston College), Robert Bodnar (Virginia Tech), Kevin Burton (Durham University), Mark Caddick (Virginia Tech), Hao Cheng (Tongji University, Shanghai), Drew Coleman (University of North Carolina – Chapel Hill), Chris Couëlsan (Manitoba Geological Survey), Maureen Feineman (Pennsylvania State University), Gordana Garapic (SUNY New Paltz), Esteban Gazel (Cornell University), Michelle Gevedon (Colorado College), Victor Guevara (Amherst College), Edward Inglis (IPGP), Jeremy Inglis (Los Alamos National Laboratory), Timm John (Freie Universität Berlin), Matthew Kohn (Boise State University), Andrew Kylander-Clark (University of California – Santa Barbara), Pierre Lanari (Universität Bern), Horst Marschall (Goethe Universität Frankfurt), Sarah Mazza (Smith College), Nick Mortimer (GNS Science), Sarah Penniston-Dorland (University of Maryland), Anthony Pollington (Los Alamos National Laboratory), Marco Scambelluri (Università degli Studi di Genova), Blaire Schoene (Princeton University), Esther Schwarzenbach (Freie Universität Berlin), Jane Selverstone (University of New Mexico), Daniel Stockli (University of Texas-Austin), Harold Stowell (University of Alabama), Fang-Zhen Teng (University of Washington), Bertram Uunk (Vrije Universiteit Amsterdam), Peter van Keken (Carnegie Institute of Washington), Jeffrey Vervoort (Washington State University), Julie Vry (Victoria University – Wellington), Ikuko Wada (University of Minnesota)

REMAINING ABSTRACTS

- Dragovic, B.**, Codillo, E., Schwarzenbach, E.M., *Brown, A., Bizimis, M. Marschall, H., Scambelluri, M., 2023. Consequences of intra-slab reactive fluid flow on elemental and isotopic slab signatures: a case study from the Ligurian Alps, Italy. AGU Fall Meeting, San Francisco, CA. (*oral*) (*invited*)
- Wada, I., Zhou, X., Penniston-Dorland, S., van Keken, P.E., **Dragovic, B.**, 2023. Deepening of slab-mantle decoupling upon subduction initiation. AGU Fall Meeting, San Francisco, CA. (*poster*)
- Penniston-Dorland, S., Wada, I., Raia, N.H., Zhou, X., Steele, A., Bullock, E., **Dragovic, B.**, van Keken, P.E., 2023. Constraining past thermal conditions of the fossil subduction plate interface at New Caledonia: Combining petrology and geodynamics. AGU Fall Meeting, San Francisco, CA. (*oral*)

- Scherzer, S., Schwarzenbach, E. M., John, T., Scicchitano, M.R., **Dragovic, B.**, Kiczka, M., 2023. Insights into multi-stage fluid-rock-interaction in HP metamorphic ocean floor basalts from the Tianshan, NW China. GeoBerlin 2023, Berlin, Germany. (*poster*)
- *Brown, A., Codillo, E., Scambelluri, M., Schwarzenbach, E.M., Rojas Kolomiets, E., Bizimis, M., Marschall, H., **Dragovic, B.**, 2023. Unraveling the molybdenum (Mo) cycle at the subduction interface: A case study from the Ligurian Alps. 33rd Annual VM Goldschmidt Conference, Lyon, France. (*poster*)
- Scherzer, S., Schwarzenbach, E.M., John, T., Scicchitano, M.R., **Dragovic, B.**, Kiczka, M., 2023. Evidence of multiple fluid-rock interaction in HP metamorphic ocean floor basalts from the Tianshan, NW China. 33rd Annual VM Goldschmidt Conference, Lyon, France. (*poster*)
- Goliber, S.F.B., Starr, P., Inglis, E., Agard, P., Locatelli, M., **Dragovic, B.**, Paquet, M., Moynier, F., Baxter, E.F., 2023. Iron and zinc isotope evidence for fluid infiltration in eclogite breccias at Monviso, Italy. 33rd Annual VM Goldschmidt Conference, Lyon, France. (*poster*)
- Lorthioir, C., Scambelluri, M., Belmonte, D., **Dragovic, B.**, Millonig, L., Marschall, H., Starr, P.G., Baxter, E.F., 2023. Timescales of oceanic lithosphere hydration: constraints from rodingites, Apennines, Italy. 33rd Annual VM Goldschmidt Conference, Lyon, France. (*poster*)
- Scicchitano, M.R., Scherzer, S., Schwarzenbach, E.M., **Dragovic, B.**, Kiczka, M., John, T., 2023. Tracking fluid sources in the slab: evidence from HP metabasalts from the Tianshan, NW China. 21st Swiss Geoscience Meeting, Mendrisio, Switzerland. (*oral*)
- *Brown, A., **Dragovic, B.**, Codillo, E., Rojas Kolomiets, E., Bizimis, M., 2023. Evaluating redox evolution at the subduction interface from the Mo perspective: a case study from the Ligurian Alps. Geological Society of America NE/SE Sectional Meeting, Reston, VA. (*oral*)
- *Hirosky, B., **Dragovic, B.**, *Brown, A., 2023. There and back again: an eclogite tale from the Ashe Metamorphic Suite. Geological Society of America NE/SE Sectional Meeting, Reston, VA. (*poster*)
- Wada, I., Zhou, X., Penniston-Dorland, S.C., Harvey, K.M., Steele, A., Raia, N., **Dragovic, B.**, van Keken, P.E., 2022. Collaborative Research: Constraining the thermal structure of fossil subduction plate interfaces through combining petrology and geodynamics. American Geophysical Union Fall Meeting, Chicago, IL. (*oral*)
- Wada, I., Zhou, X., Penniston-Dorland, S.C., Harvey, K.M., **Dragovic, B.**, van Keken, P.E., 2022. Modeling the thermal evolution of fossil subduction plate interfaces. Geological Society of America Annual Meeting, Denver, CO. (*oral*)(*invited*)
- Penniston-Dorland, S.C., Harvey, K.M., Zhou, X., Wada, I., Steele, A., Bullock, E., Raia, N., **Dragovic, B.**, van Keken, P.E., 2022. Constraining the thermal structure of fossil subduction plate interfaces: combining petrology and geodynamics. Geological Society of America Annual Meeting, Denver, CO. (*oral*)
- Hostettler, E., Barnes, J.D., Lassiter, J.C., Satkoski, A., **Dragovic, B.**, Starr, P., and Baxter, E., 2022. Calcium isotopes as fluid tracers during rodingitization. 32nd Annual VM Goldschmidt Conference, Honolulu, Hawaii. (*oral*)
- Dragovic, B.**, 2022. Constraining the rates of subduction metamorphism and metasomatism using chronology and chronometry: insights from the Eocene. 14th International Eclogite Conference, Lyon, France. (*oral*)(*keynote*)
- Penniston-Dorland, S., Harvey, K.M., Zhou, X., Wada, I., **Dragovic, B.**, van Keken, P., 2022. Constraining the temperature conditions of fossil subduction plate interfaces: combining petrology and geodynamics. 14th International Eclogite Conference, Lyon, France. (*oral*)(*invited*)
- Dragovic, B.** Guevara, V.E., Caddick, M.J., Inglis, J.D., Raimondo, T., Kylander-Clark, A.R.C., 2022. Deciphering Neoproterozoic polymetamorphism and crustal melting in the northern Wyoming Province using garnet petrochronology. European Geophysical Union General Assembly 2022, Vienna, Austria. (*oral*)(*invited*)
- Schwarzenbach, E., Streicher, L., **Dragovic, B.**, Scicchitano, M.R., Wiechert, U., Codillo, E., Klein, F., Marschall, H., Scambelluri, M., 2022. Sulfur transfer along a metasomatized serpentinite-metagabbro contact in the Voltri Massif, Italy. European Geophysical Union General Assembly 2022, Vienna, Austria. (*oral*)
- Madsen, L., Maneiro, K.A., *Brown, A., **Dragovic, B.**, Stevens, G., 2022. Bulk Lu-Hf garnet geochronology in the Southern Marginal Zone, Limpopo Belt, South Africa. Joint North-Central & Southeastern sections Geological Society of America meeting, Cincinnati, OH. (*poster*)

- *Brown, A., **Dragovic, B.**, Codillo, E., Rojas Kolomiets, E., Bizimis, M., Marschall, H., Scambelluri, M., 2021. The behavior of Mo isotopes during high-pressure metamorphism and metasomatism: a case study from the Ligurian Alps and northern Apennines. American Geophysical Union Fall Meeting, New Orleans, LA. (*poster*)
- Goliber, S., Starr, P.G., Inglis, E., Agard, P., **Dragovic, B.**, Baxter, E.F., 2021. Coupled iron and zinc isotopes in successively hydrated matrix generations in eclogite breccias from the Lago Superior Unit, Monviso, Italy. American Geophysical Union Fall Meeting, New Orleans, LA. (*poster*)
- Starr, P.G., Inglis, E., **Dragovic, B.**, Agard, P., Goliber, S., Moynier, F., Baxter, E.F., 2021. Characterizing the nature and timescales of changing redox conditions during subduction: insights from integrated stable Fe and Zn isotopes and Sm/Nd geochronology within garnet growth zones. American Geophysical Union Fall Meeting, New Orleans, LA. (*oral*)
- Lorthoir, C., Starr, P.G., Baxter, E.F., Scambelluri, M., Belmonte, D., **Dragovic, B.**, Marschall, H., Millonig, L.J., 2021. Timescales of oceanic lithosphere hydration: constraints from rodingites, Apennines, Italy. American Geophysical Union Fall Meeting, New Orleans, LA. (*poster*)
- Hostettler, E.H., Barnes, J., Stockli, D.F., Stockli, L., Starr, P.G., Baxter, E.F., **Dragovic, B.**, 2021. Timing of rodingitization of the Servette mine meta-rodingite (Zermatt-Saas Ophiolite) using U-Pb geochronology of andradite-grossular garnet. American Geophysical Union Fall Meeting, New Orleans, LA. (*poster*)
- Dragovic, B.**, Guevara, V.E., Caddick, M.J., Inglis, J.I., Kylander-Clark, A.R.C., 2021. Neoproterozoic polymetamorphism and crustal melting due to magmatic heat advection in the northern Wyoming Province: insights from garnet petrochronology and thermal modeling. Geological Society of America Annual Meeting, Portland, OR.
- Codillo, E.A., Klein, F., **Dragovic, B.**, Marschall, H., Baxter, E.F., Scambelluri, M., 2021. Fluid-mediated mass transfer between mafic and ultramafic rocks in subduction zones: insights from the high-pressure Voltri Massif (Ligurian Alps, Italy). 31st Annual VM Goldschmidt Conference, Virtual. (*oral*)
- Dragovic, B.**, Angiboust, S., Caddick, M.J., 2020. Deciphering the timescales and thermal evolution of the subduction interface using petrochronology: a case study from the Western Alps. American Geophysical Union Fall Meeting, Virtual. (*invited*) (*oral*)
- Hoover, W.F., Penniston-Dorland, S., Baumgartner, L.P., Bouvier, A.-S., **Dragovic, B.**, 2020. Cyclic fluid flow in a high-pressure shear zone: insights from Li isotope zoning in garnet. American Geophysical Union Fall Meeting, Virtual. (*oral*)
- Starr, P.G., Inglis, E., **Dragovic, B.**, Baxter, E.F., Agard, P., Moynier, F., 2020. Investigating the redox conditions and timescales of fluid release from the subducting slab: insights from coupled Fe and Zn isotopes and Sm/Nd geochronology within garnet. American Geophysical Union Fall Meeting, Virtual. (*oral*)
- Penniston-Dorland, S., Baumgartner, L.P., **Dragovic, B.**, Bouvier, A.-S., 2020. Li isotope zoning in garnet from Franciscan eclogite and amphibolite: The role of subduction-related fluids. American Geophysical Union Fall Meeting, Virtual. (*oral*)
- Guevara, V.E., **Dragovic, B.**, Caddick, M.J., Couëslan, C.G., 2020. Slow differentiation of continental crust in an Archean granulite terrane. Geological Society of America Annual Meeting Connects Online. (*invited*) (*oral*).
- Dragovic, B.**, Guevara, V.E., Caddick, M.J., Couëslan, C.G., 2020. Deciphering the timescales and mode of Archean orogenesis in the Pikwitonei Granulite Domain using multi-mineral petrochronology. GeoConvention, Virtual. (*invited*) (*oral*)
- Zhou, X., Wada, I., Penniston-Dorland, S., **Dragovic, B.**, Harvey, K.M., van Keken, P., 2019. Constraining the temperature conditions of paleo-subduction plate interfaces, Part II: geodynamic modeling. American Geophysical Union Fall Meeting, San Francisco, CA. (*poster*)
- Harvey, K.M., **Dragovic, B.**, Penniston-Dorland, S., Wada, I., Zhou, X., van Keken, P., 2019. Constraining the temperature conditions of paleo-subduction plate interfaces, Part I: petrologic case study of the Rio San Juan Complex (Dominican Republic). American Geophysical Union Fall Meeting, San Francisco, CA. (*poster*)
- Starr, P.G., Gerrits, A.R., Inglis, E., **Dragovic, B.**, Baxter, E., Burton, K.W., Moynier, F., 2019. Tracing the release of oxidizing fluids during subduction: insights from zoned Fe isotope measurements within garnet. American Geophysical Union Fall Meeting, San Francisco, CA. (*poster*)

- Dragovic, B.**, Angiboust, S., 2019. A close-up on the thermal structure of the W. Alps paleo-subduction zone using garnet petrochronology. Geological Society of America Annual Meeting, Phoenix, AZ. (*oral*)
- Dragovic, B.**, Caddick, M.J., Guevara, V.E., Inglis, J., 2019. Neoproterozoic polymetamorphism in the Wyoming Province recorded by zoned garnet petrochronology. Geological Society of America Annual Meeting, Phoenix, AZ. (*poster*)
- Penniston-Dorland, S.C., Baumgartner, L., **Dragovic, B.**, Bouvier, A.-S., 2019. Stopping crystal clocks: the role of electrons in arresting diffusion of lithium in subduction zone garnets. Geological Society of America Annual Meeting, Phoenix, AZ. (*oral*)
- Baxter, E.F., Gerrits, A.R., Inglis, E., **Dragovic, B.**, Starr, P., Burton, K., 2019. Frontiers in the analysis and interpretation of zoned garnet crystals: Fe-isotopes as a recorder of redox fluid processes. Geological Society of America Annual Meeting, Phoenix, AZ. (*oral*) (*invited*)
- Harvey, K., **Dragovic, B.**, Penniston-Dorland, S., Piccoli, P., Bodnar, R., 2019. Comparison of single-phase thermobarometers and their application to reconstructing the tectonometamorphic evolution of the Rio San Juan Complex (Dominican Republic). 29th Annual VM Goldschmidt Conference, Barcelona, Spain. (*poster*)
- Haws, A., Starr, P., Baxter, E., **Dragovic, B.**, Scambelluri, M., 2019. Using rodingite dikes to explore the P-T-t histories of subducted serpentinites. 29th Annual VM Goldschmidt Conference, Barcelona, Spain. (*poster*)
- Broadwell, K., Starr, P., **Dragovic, B.**, Caddick, M., Baxter, E., Scambelluri, M., 2019. Constraints on the P-T conditions and timing of prograde subduction of the Voltri Ophiolite. 29th Annual VM Goldschmidt Conference, Barcelona, Spain. (*poster*)
- Penniston-Dorland, S., Baumgartner, L., **Dragovic, B.**, Bouvier, A.-S., 2019. Stopping crystal clocks: the role of electrons in arresting diffusion of lithium in subduction zone garnets. 29th Annual VM Goldschmidt Conference, Barcelona, Spain. (*poster*)
- Codillo, E., Klein, F., Marschall, H., **Dragovic, B.**, Scambelluri, M., 2019. Mass transfer between crustal and mantle rocks in subduction zones: insights from the high-pressure Voltri Massif (Ligurian Alps, Italy). 29th Annual VM Goldschmidt Conference, Barcelona, Spain. (*poster*)
- Penniston-Dorland, S.C., Baumgartner, L.P., **Dragovic, B.**, Bouvier, A.-S., 2019. Evidence from in situ measurements of $\delta^7\text{Li}$ in garnets for Li diffusion and isotopic fractionation within garnet. EGU General Assembly, Vienna, Austria. (*oral*)
- Dragovic, B.**, Brooks, H.M., Lamadrid, H.M., Caddick, M.J., Bodnar, R.J., 2018. Fluid capture during exhumation of subducted lithologies: a fluid inclusion study from the Cycladic Blueschist Unit (Sifnos, Greece). American Geophysical Union Fall Meeting, Washington, D.C. (*poster*)
- Codillo, E.A., Klein, F., Marschall, H.R., **Dragovic, B.**, 2018. Insights on rock hybridization at the slab-mantle interface from an exhumed high-pressure serpentinite-eclogite sequence in the Voltri Massif (Ligurian Alps, Italy). American Geophysical Union Fall Meeting, Washington, D.C. (*poster*)
- Penniston-Dorland, S.C., Baumgartner, L.P., Bouvier, A.-S., **Dragovic, B.**, Baker, D.R., 2018. Development of in situ analysis of $\delta^7\text{Li}$ in garnets to decipher metamorphic processes. American Geophysical Union Fall Meeting, Washington, D.C. (*poster*)
- Caddick, M.J., **Dragovic, B.**, Guevara, V.E., 2018. Multiple phases of high-temperature metamorphism recorded in Archean continental crust: A record from polyphase garnet growth. American Geophysical Union Fall Meeting, Washington, D.C. (*poster*)
- Dragovic, B.**, 2018. Episodic garnet-growth metamorphism during Aegean subduction and syn-orogenic exhumation. 2018 Geological Society of America Annual Meeting, Indianapolis, IN. (*oral*)
- Dragovic, B.**, Angiboust, S., 2018. A record of burial and rapid exhumation in an eclogite-facies black smoker from the W. Alps paleo-subduction zone. 28th Annual VM Goldschmidt Conference, Boston, MA. (*poster*)
- Dragovic, B.**, Guevara, V.G., Caddick, M.J., 2018. Variable garnet (re)crystallisation during high-temperature polyphase metamorphism. 28th Annual VM Goldschmidt Conference, Boston, MA. (*poster*)
- Penniston-Dorland, S.C., Baumgartner, L.P., **Dragovic, B.**, Bouvier, A.-S., 2018. Evidence from in situ measurements of $\delta^7\text{Li}$ in garnets suggests control of fluid composition on Li isotopic fractionation within garnet. 28th Annual VM Goldschmidt Conference, Boston, MA. (*oral*)

- Nagurney, A.B., Caddick, M.J., **Dragovic, B.** Understanding overstepped metamorphic reactions via changes in the chemical potential of thermodynamic components. 28th Annual VM Goldschmidt Conference, Boston, MA. (*poster*)
- Guevara, V.E., Dragovic, B., Caddick, M.J., Couëslan, C.G., Kylander-Clark, A.R.C., Maclennan, S.A., Schoene, B., Baxter, E.F., 2018. Ultrahigh temperature metamorphism of Archean continental crust: insights from the petrochronology arsenal. 2018 Northeastern GSA conference, Burlington, VT. (*oral*)
- Dragovic, B.**, Caddick, M.J., Guevara, V.E., 2017. Comparison of Archean tectonic modes through petrochronology. 27th Annual VM Goldschmidt Conference, Paris, France. (*oral*)
- Dragovic, B.**, Guevara, V.E., Caddick, M.J., Couëslan, C.G., Baxter, E.F., 2017. Punctuated HT/UHT metamorphism during prolonged Archean orogenesis in the Pikwitonei Granulite Domain revealed by garnet petrochronology. EGU General Assembly, Vienna, Austria. (*oral*)
- Caddick, M.J., **Dragovic, B.**, Guevara, V.E., 2017. Comparative chronology of Archean HT/UHT crustal metamorphism. EGU General Assembly, Vienna, Austria. (*oral*)
- Penniston-Dorland, S., **Dragovic, B.**, 2016. Using Li and its isotopes as a tracer of subduction-related metamorphic fluid-rock interactions. American Geophysical Union Fall Meeting, San Francisco. (*oral*)
- Dragovic, B.**, Guevara, V.G., Caddick, M.J., Couëslan, C.G., Baxter, E.F., 2016. Deciphering the timescales of Archean HT/UHT metamorphism in the Pikwitonei Granulite Domain using garnet petrochronology. American Geophysical Union Fall Meeting, San Francisco. (*oral*)
- Guevara, V.G., Maclennan, S.A., Schoene, B., **Dragovic, B.**, Caddick, M.J., Kylander-Clark, A.R.C., Couëslan, C.G., 2016. Quantifying the timescales of Archean UHT metamorphism through U-Pb monazite and zircon petrochronology: insights from the Pikwitonei Granulite Domain. American Geophysical Union Fall Meeting, San Francisco. (*oral*)
- Guevara, V.G., **Dragovic, B.**, Caddick, M.J., Kylander-Clark, A.R.C., Couëslan, C.G., 2016. Ultrahigh temperature metamorphism of the Archean Pikwitonei Granulite Domain. Geological Society of America Annual Meeting, Denver, CO. (*oral*)
- Baxter, E.F., Caddick, M.J., Ague, J.J., **Dragovic, B.**, Pollington, A.D., Sullivan, N., 2016. Three kinds of metamorphic pulses: geodynamic, thermodynamic, kinetic. Geological Society of America Annual Meeting, Denver, CO. (*oral*)
- Dragovic, B.**, Guevara, V.G., Caddick, M.J., Baxter, E.F., 2016. HT/UHT garnet geo-thermochronology: Limitations and applications from two Neoproterozoic terranes. 35th International Geological Congress, Cape Town, South Africa. (*oral*)
- Dragovic, B.**, Baxter, E.F., Caddick, M.J., 2016. A “brief” history of Aegean subduction: P-T-t evolution of the Cycladic Blueschist Unit, Sifnos, Greece. 35th International Geological Congress, Cape Town, South Africa. (*poster*)
- Caddick, M.J., Guevara, V.E., **Dragovic, B.**, Baxter, E.F., 2016. A brief pulse of Archean granulite-facies metamorphism: the Beartooth Mountains of Montana, U.S. 35th International Geological Congress, Cape Town, South Africa. (*oral*)
- Guevara, V.G., **Dragovic, B.**, Caddick, M.J., Baxter, E.F., 2016. The ghost of a craton’s past. 51st Annual Meeting of the Northeastern section of the Geological Society of America, Albany, NY. (*oral*)
- Dragovic, B.**, Caddick, M.J., 2015. A (very) brief history of subduction: insights from thermodynamic and geodynamic models. Geological Society of America Annual Meeting, Baltimore, MD. (*oral*)
- Dragovic, B.**, Guevara, V., Caddick, M.J., Baxter, E.F., 2015. Limitations and utility of Sm-Nd garnet geochronology of high-temperature metamorphism: an example from the Wyoming Craton. Geological Society of America Annual Meeting, Baltimore, MD. (*poster*)
- Guevara, V., **Dragovic, B.**, Caddick, M.J., 2015. P-T path of short-lived Neoproterozoic granulite facies metamorphism of the Wyoming Craton. Geological Society of America Annual Meeting, Baltimore, MD. (*oral*)
- Gorce, J., Caddick, M.J., Baxter, E.F., Ashley, K.T., Kendall, J.A., **Dragovic, B.**, Brooks, H.L., Ramos, E.J., 2015. P-T paths from Syros, Greece, and constraints on subduction zone fluid generation. Geological Society of America Annual Meeting, Baltimore, MD. (*poster*)

- Brooks, H.L., Lamadrid, H.M., Caddick, M.J., **Dragovic, B.**, Bodnar, R.J., 2015. Insights into subduction zone fluid chemistries from fluid inclusions in blueschist from Sifnos, Greece. Geological Society of America Annual Meeting, Baltimore, MD. (*poster*)
- Baratoux, L., Honn, D., Baratoux, D., Eccles, K.A., Baxter, E.F., **Dragovic, B.**, Block, S., Jessell, M.W., 2015. Sm-Nd garnet metamorphic ages in the Bole-Nangodi belt, Ghana. 25th Annual VM Goldschmidt Conference, Prague, Czech Republic. (*oral*)
- Dragovic, B.**, Gatewood, M.G., Baxter, E.F., Stowell, H., Hirsch, D., Bloom, R., 2015. Determining the timescale and amount of syn-metamorphic fluid flow during regional metamorphism, Townshend Dam, Vermont, U.S.A. Southeastern section of the Geological Society of America. (*oral*)
- Dragovic, B.**, Caddick, M.J., Baxter, E.F., 2014. Rapid heating at subduction interfaces: A special case or the norm? American Geophysical Union Fall Meeting, San Francisco. (*poster*)
- Guevara, V., **Dragovic, B.**, Caddick, M.J., Baxter, E.F., 2014. 2.69-2.68 Ga granulite facies metamorphism in the Wyoming Craton revealed by Sm-Nd garnet geochronology and trace element zoning, eastern Beartooth Mountains, Montana and Wyoming, USA. American Geophysical Union Fall Meeting, San Francisco. (*poster*)
- McCall, K.E., Caddick, M.J., **Dragovic, B.**, 2014. Chemical potentials: the key to unlocking the conditions of garnet nucleation? 63rd Annual Meeting of the Geological Society of America Southeastern Section, Blacksburg, Virginia. (*oral*)
- Dragovic, B.**, Baxter, E.F., Caddick, M.J., 2013. Pulsed garnet growth and dehydration during subduction, Sifnos, Greece. Geological Society of America Annual Meeting, Denver, CO. (*oral*)
- Bloom, R., Hirsch, D., Gatewood, M.G., **Dragovic, B.**, Baxter, E.F., Stowell, H.H., 2013. Determining garnet crystallization kinetics from growth zoning and Mn-calibrated Sm-Nd ages. Geological Society of America Annual Meeting, Denver, CO. (*oral*)
- Baxter, E.F., **Dragovic, B.**, Caddick, M., 2013. The chronology of dehydration. 23rd Annual VM Goldschmidt Conference, Florence, Italy. (*oral*)
- Stowell, H.H., Gatewood, M.G., **Dragovic, B.**, Baxter, E.F., Hirsch, D., Bloom, R., 2013. Garnet compositional zoning and evaluating equilibrium in pelitic schist: an example from Townshend Dam, VT. 47th Annual Meeting of the Geological Society of America South-Central Section, Austin, Texas. (*oral*)
- Stowell, H.H., Gatewood, M.G., **Dragovic, B.**, Baxter, E.F., Hirsch, D., Bloom, R., 2012. Evaluating the scale and nature of equilibrium in metamorphic rocks using garnet Sm-Nd ages and compositional zoning. 2012 Geological Society of America Annual Meeting, Charlotte, NC. (*oral*)
- Baxter, E.F., **Dragovic, B.**, Caddick, M.J., 2012. Linking zoned garnet Sm-Nd geochronology and thermodynamic analysis to constrain subduction zone dehydration flux. 34th International Geological Congress, Brisbane, Australia. (*oral*)
- Dragovic, B.**, Gatewood, M.G., Baxter, E.F., Stowell, H.H., Hirsch, D.M., Bloom, R., 2012. Constraining dehydration rates during regional metamorphism, Townshend Dam, Vermont, U.S.A. 22nd Annual VM Goldschmidt Conference, Montreal, Canada. (*oral*)
- Bloom, R., Hirsch, D.M., **Dragovic, B.**, Gatewood, M.G., Baxter, E.F., Stowell, H.H., 2012. Determining garnet crystallization kinetics from growth zoning and Mn-calibrated Sm-Nd ages at Townshend Dam, VT. 22nd Annual VM Goldschmidt Conference, Montreal, Canada. (*oral*)
- Dragovic, B.**, Baxter, E.F., Caddick, M., 2011. Dehydration history of subducting lithologies, Sifnos, Greece. 2011 American Geophysical Union Fall Meeting, San Francisco. (*oral*)
- Gatewood, M.G., **Dragovic, B.**, Stowell, H.H., Baxter, E.F., Hirsch, D.M., Bloom, R., 2011. Utilizing major element and age zoning in garnet as a tool for evaluating the scale of equilibrium in metamorphic rocks. 2011 American Geophysical Union Fall Meeting, San Francisco. (*oral*)
- Baxter, E.F., Caddick, M., Thompson, A., **Dragovic, B.**, Pollington, A.D., Ague, J., 2011. Causes of pulsed mineral growth during metamorphism. 21st Annual VM Goldschmidt Conference, Prague, Czech Republic. Mineralogical Magazine, v. 75, no. 3, p. 501. (*poster*)
- Dragovic, B.**, Baxter, E.F., Caddick, M., 2011. Accelerating garnet growth and related dehydration at blueschist-facies conditions, Sifnos, Greece. 21st Annual VM Goldschmidt Conference, Prague, Czech Republic. Mineralogical Magazine, v. 75, no. 3, p. 779. (*oral*)

- Dragovic, B.**, Mehl, L., Baxter, E.F., Selverstone, J., 2010. Constraining the duration and rate of garnet growth and dehydration during subduction, Sifnos, Greece. 20th Annual VM Goldschmidt Conference, Knoxville, TN. *Geochimica et Cosmochimica Acta*, v. 74, no. 12, p. A246. (*poster*)
- Baxter, E.F., Pollington, A.P., **Dragovic, B.**, Gatewood, M.P., Inglis, J.D., 2010. Progress in zoned garnet geochronology. 2010 Geological Society of America Annual Meeting, Denver, CO. (*oral*)
- Baxter, E.F., Pollington, A.D., **Dragovic, B.**, Jordan, M.K., Inglis, J.D., 2009. Sm/Nd garnet geochronology: Higher precision on smaller samples. 19th Annual VM Goldschmidt Conference, Davos, Switzerland. *Geochimica et Cosmochimica Acta*, v. 73, no. 13, p. A97. (*oral*)
- Sibbick, R.G., Brown A.D., **Dragovic, B.**, Knight, C., Garrity, S., Comeau, R., 2007. Determination of water to cementitious ratios by the use of the fluorescence microscopy technique in hardened concrete samples: Part 1. 29th ICMA conference, Quebec City, Quebec, Canada. (*oral*)
- Sibbick, R.G., Brown A.D., **Dragovic, B.**, Knight, C., Garrity, S., Comeau, R., 2007. Investigation into the determination of water to cementitious ratios by the use of the fluorescence microscopy technique in hardened concrete samples: Part 1. 11th Euroseminar on Microscopy Applied to Building Materials, Porto, Portugal. (*oral*)
- Dragovic, B.**, Philpotts, A. R., 2002. Degree of crystal mush compaction as inferred from overgrowths on plagioclase phenocrysts in the Holyoke basalt, CT. Geological Society of America Northeastern Section 37th Annual Meeting. (*oral*)
- Dragovic, B.**, Philpotts, A. R., 2000. Use of neutrally buoyant plagioclase phenocrysts as passive markers in determining compaction in a basaltic crystal-mush. Geological Society of America Northeastern Section 35th Annual Meeting. (*oral*)