CAROL D. FROST

Department of Geology and Geophysics
University of Wyoming
Laramie WY 92071-3006
(307) 766-3386
frost@uwyo.edu

EDUCATION

1984 Ph.D. Earth Sciences, University of Cambridge
1979 A.B., *magna cum laude*, Dartmouth College, Highest Distinction in Earth Sciences

ACADEMIC AND ADMINISTRATIVE POSITIONS

2020-present	Professor Emerita, Department of Geology and Geophysics, University of Wyoming
1983-2020	Department of Geology and Geophysics, University of Wyoming: Assistant Professor (1983-1989), Associate Professor (1989-1995), Professor (1995-2020)
2014-2018	Division Director, Division of Earth Sciences, National Science Foundation,
2012-2013	Associate Provost, Office of Academic Affairs, University of Wyoming
2010-2012	Vice President for Special Projects, Office of the President, Univ. of Wyoming
2008-2010	Associate Vice President for Research, University of Wyoming
2006-2007	Founding Director, School of Energy Resources, University of Wyoming
2005-2008	Associate Chair, Dept. of Geology and Geophysics, University of Wyoming
2004-2005	Visiting Researcher, Institut für Mineralogie, Universität Hannover
1990-1991	Visiting Researcher, Department of Earth Sciences, University Cambridge
Fall 1987	Visiting Researcher, Laboratory of Isotope Geochemistry, ETH, Zurich

RECENT PROFESSIONAL COMMUNITY SERVICE

2025-2027	Principal Editor, *Elements*
2024-2025	Co-chair, National Academies consensus study Meeting US Mineral Resource Needs
2023-2028	Member, British Geological Survey Board of Directors and Chair, British Geological Survey Science Advisory Committee
2022-2026	Councilor, Geological Society of America
2024-2026	Chair, Mineralogical Society of America Publications Committee
2020-2023	Chair, American Geophysical Union Publications Committee
2019-2020	President, Mineralogical Society of America
2018-2023	AGU Publications Committee (chair 2020-2023)
2011-2014	Wyoming State Geological Survey Advisory Board member, Vice President, President
2005-2009	Board member, Board of Professional Geologists, State of Wyoming
2005-2010	Co-chair, UNESCO project IGCP-510 "A-type granites and related rocks"
Licensure	Licensed Professional Geologist, State of Wyoming PG-2591

TEXTBOOK

Frost, B.R., and Frost, C.D., 2019 (second edition), *Essentials of Igneous and Metamorphic Petrology*, Cambridge University Press, ISBN 978-1108710589. Third edition in preparation.

GEOSCIENCE EDUCATIONAL VIDEOS

Frost, C.D., Swapp, S.M., Stern, R.J. (writers), 2023, How do continents form: Archean cratons tell the story, UT-Dallas Geoscience Studio, https://www.youtube.com/watch?v=LuUNHx19jPA

Frost, C.D., Swapp, S.M., Stern, R.J. (writers), 2025, Where are the oldest rocks in the U.S.? UT-Dallas Geoscience Studio, https://www.youtube.com/watch?v=-SLCzt89LRc

RECENT PUBLICATIONS (ORCID ID 0000-0002-1674-2725) (Google Scholar)

Frost, B.R., Lindsley, D.H., Frost, C.D., Swapp, S.M., Lewis, M., Jackson, L.J. and Brown, T.C., 2026, The Laramie anorthosite complex and Sherman batholith. GSA Memoir 226, in press.

Frost, C.D., Swapp, S.M., Hoch. A.R., Runyon, S.E., 2025, Petrogenesis of the Rattlesnake Hills alkaline magmatic complex, Wyoming, USA: potential for rare-earth-element enrichment. Journal of Petrology, doi: 10.1093/petrology/egaf091.

Frost, C.D., Mueller, P.A., Bickford, M.E., Stern, R.J., 2025, USA's oldest rock? A simple question with a complex answer. *GSA Today*, v. 35(3), p 4-10. doi: 10.1130/GSAT613A.1.

Frost, C.D., and Mueller, P.A., 2024, Archean cratons: time capsules of the early Earth. *Elements,* v. 20(3), p. 162-167. doi: 10.2138/gselements.20.3.162

Mueller, P.A., and Frost, C.D., 2024, Archean cratons: terms, concepts, and analytical approaches. *Elements,* v. 20(3), p. 157-161. doi: 10.2138/gselements.20.3.157

Snoke, A.W., Barnes, C.G., Howard, K.A., Romanoski, A., Premo, W.R., Hetherington, C.J., Strike, A.T., Frost, C.D., Copeland, P., and Lee, S-Y., 2024, Paleogene mid-crustal intrusions in the Ruby Mountains-East Humboldt Range metamorphic core complex, northeastern Nevada. *Geosphere*, doi: 10.1130/GES02673.1

Frost, C.D., Mueller, P.A., Mogk, D.W., Frost, B.R., and Henry, D.J., 2023, Creating continents: Archean cratons tell the story. *GSA Today*, v. 33 no. 1, p. 4-10, doi: 10.1130/GSATG541A.1

Mogk, D., Frost, C., Mueller, P., Frost, B., and Henry D., 2023, Crustal genesis and evolution of the Archean Wyoming Province: continental growth through vertical magmatic and horizontal tectonic processes. In Whitmeyer, S.J., Williams, M.L., and Kellett, D.A., and Tikoff, B., Laurentia: An evolving continent. GSA Memoir 220, p 1-24. doi: 10.1130/2022.1220(01)

Frost, C.D., and Frost, B.R., 2023, Petrologic constraints on the origin of Proterozoic ferroan granites of the Laurentian margin. In Whitmeyer, S.J., Williams, M.L., Kellett, D.A., and Tikoff, B., Laurentia: An evolving continent. GSA Memoir 220, 24 p., doi: 10.1130/2022.1220(10).

Bedrosian, P.A., and Frost, C.D., 2022, Geophysical extent of the Wyoming Province: Insights into ancient subduction and craton stability. *GSA Bulletin,* 18 p., doi:10.1130/B36417.1