

Anne Mailloux, M.S., P.G.

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EXPERIENCE SUMMARY

Ms. Mailloux is currently a licensed Professional Geologist with Geosyntec Consultants, Inc. and is pursuing her PhD at Rutgers. She has over seven years of experience in environmental geology and a diverse academic background in the geologic and ecological sciences, making her uniquely poised to answer the interdisciplinary challenges our world faces today.

ENVIRONMENTAL CONSULTING

Professional Geologist, Geosyntec Consultants, Blue Bell, PA.

2020-Present. Ms. Mailloux is a passionate environmental professional with six years of experience in helping clients with their most complex technical and regulatory challenges. Her technical focus includes evaluations of fate and transport in multi-unit and fractured bedrock aquifer systems and development and refinement of conceptual site models. She also has significant experience in remedial investigation implementation, remedial action selection and implementation, liability assessment and risk management. She is a project manager who loves to help her diverse, international client base.

Staff Geologist, Geosyntec Consultants, Blue Bell, PA. 2018-2020.

Senior Engineering Technician, Geosyntec Consultants, Blue Bell, PA. 2016-2018.

Engineering/Scientific Intern, PA Department of Environmental Protection, Norristown, PA. 2015.

EDUCATION & RESEARCH EXPERIENCE

PhD. Candidate, Department of Earth and Planetary Science- Rutgers, the State University of New Jersey, New Brunswick, NJ. Present.

Ms. Mailloux is currently exploring PhD research topics and is interested in better understanding fundamental groundwater and surface water processes through the application of field data and modeling. She seeks to develop a topic that will help provide answers to the questions she finds herself asking regularly during her workday, with the goal of a broader application to the environmental and climate field.

M.S. Thesis, Department of Geology- Texas Tech University, Lubbock, TX. 2014-2017. As a Master's student at Texas Tech, Ms. Mailloux prepared a thesis on the origin and emplacement of rare-earth pegmatites. This project used geochemical and petrographic data to discern the time and tectonic setting during which NYF-type (niobium-yttrium-fluorine) pegmatites of Tysfjord, Norway, were emplaced and crystallized. Ms. Mailloux utilized a variety of imaging and analytical chemistry tools to collect data for her thesis, including Backscatter Electron Microscopy and Energy-dispersive

EDUCATION

M.S.,

Geology,

Texas Tech University,

Lubbock, Texas, 2017

B.S.,

Geology,

Lafayette College,

Easton, Pennsylvania, 2014

CERTIFICATIONS/TRAINING

Professional Geologist (PA)

Red Cross Adult CPR/First Aid

Spectroscopy (BE-SEM), Electron Microprobe, Laser Ablation-Inductive Coupled Plasma- Mass Spectrometry (LA-ICP-MS), and Isotope-dilution Thermal-ionization Mass Spectrometry (ID-TIMS). Ms. Mailloux analyzed data to determine the age of her samples and tectonic implications of these ages. Her research was published in 2021 in *Lithos*.

Research Assistant, Department of Geology- Lafayette College, Easton, PA. 2013-2014. Ms. Mailloux assisted Professor David Sunderlin with paleoecological research. The goal of the study was to refine the understanding of high-latitude paleodiversity of the Paleogene hothouse earth through an evaluation of insect species included in amber taken from coal beds in the Chickaloon near Sutton, Alaska. Research published in 2018 in *American Museum Novitates*.

Research Assistant, Department of Biology- Northern Arizona University, Flagstaff, AZ. Summer 2012. Ms. Mailloux's work with NAU included two distinct projects. The first, field survey of the high-altitude forests of Northern Arizona, was commissioned by the Conservation sector of the Camp Navajo Military Depot. This Depot serves as habitat to a population of spotted-owl, a species of owl that prefers mixed deciduous-coniferous forest. Ms. Mailloux's duty was to assign random field areas throughout the Depot, and to conduct a survey of the vegetation in each area. During this project, Ms. Mailloux's days were spent hiking between riparian areas, forests, and meadowlands in order to obtain an overall view of the ecology of the Depot, which was then reported back to the Conservation sector.

The second aspect of Ms. Mailloux's responsibilities at NAU included assisting Dr. Brad Butterfield in a study of arid-ecosystem dynamics in the American Southwest. This project included trips around Sedona, Arizona and the Painted Desert region of Arizona in order to quantify the relationships within biotic communities present in these regions.

PUBLICATIONS

Callum J. Hetherington, Georgene Anne Mailloux, Brent V. Miller, 2021, **A multi-mineral U-(Th)-Pb dating study of the Stetind pegmatite of the Tysfjord region, Norway and implications for production of NYF-rare element pegmatites during orogenic collapse**, *Lithos* 398-399(2):106257
https://www.researchgate.net/publication/351975362_A_multi-mineral_U-Th-Pb_dating_study_of_the_Stetind_pegmatite_of_the_Tysfjord_region_Norway_and_implications_for_production_of_NYF-rare_element_pegmatites_during_orogenic_collapse

David A. Grimaldi, David Sunderlin, Georgene A. Mailloux (nee Aaroe), et al. 2018, **Biological Inclusions in Amber from the Paleogene Chickaloon Formation of Alaska**, *American Museum Novitates*
https://www.researchgate.net/publication/327943243_Biological_Inclusions_in_Amber_from_the_Paleogene_Chickaloon_Formation_of_Alaska