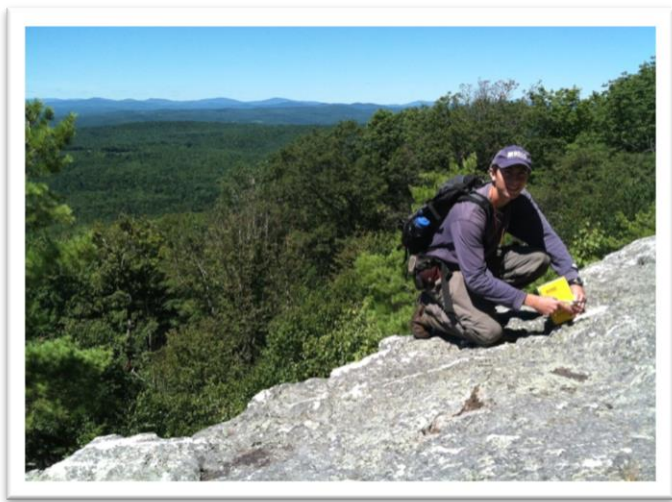




NAGT/USGS 2017 Cooperative Summer Field Training Program



The National Association of Geoscience Teachers (NAGT)/U.S. Geological Survey (USGS) Cooperative Summer Field Training Program is the longest continuously running internship program in the earth sciences. Over the past fifty-two years, over 2,400 students have participated in this program, with many participants proceeding on to distinguished careers with the USGS, with academia, or with industry.

The cooperative program was launched at the Geological Society of America meeting in Kansas City in early fall of 1965 when William “Bill” Pecora, then the newly appointed Director of the USGS, held a meeting with a small group of distinguished professors and officers of the NAGT. Pecora wanted to get the professors’ reactions to an initiative that would provide stronger linkage to academia while providing better summer research assistants for the USGS. Pecora suggested that the USGS would provide support by way of internships for outstanding newly graduated geosciences majors, while NAGT would solicit outstanding student nominations from the directors of the nation’s geosciences field camps. (Field camp, a tradition in the education of a geoscientist, is an intensive course that applies classroom and laboratory training to solving field-based geoscience problems. As employers value the skills and applications developed in the field camp experience, enrollments have shown a remarkable three-fold increase in the past decade.)

Needless to say, ‘Pecora’s Plan,’ as it became known, met with instant approval.

Although some modifications have been made over the years, the NAGT/USGS Cooperative Summer Field Training Program operates today much as it did from the beginning. With active participation and support from the highest levels of both organizations (including the Director of the USGS), a joint committee oversees the program. The program year begins in September with the field camp directors (now numbering over 120) being provided information about the program. Each director has the opportunity to nominate up to three students, based on their camp enrollment. Nominated students apply by sending a resume, letter of interest, and transcripts to the USGS. At the same time, USGS scientists interested in working with an intern submit a proposal about their field and laboratory projects. A science review and placement panel then matches candidates by their course work, skills and interests with up to five projects. The listing of candidates and accompanying academic information are sent to USGS scientists for their review. This is followed by candidate interviews and ranking for preferred selection. While the interviews provide useful opportunities for candidates and scientists for determining goodness of fit, the USGS scientist makes the final intern selection.

As interdisciplinary system science is a cornerstone of USGS science, all science disciplines are encouraged, and do take advantage of this program. Students hired through this program have continually received outstanding reviews from scientists and supervisors alike.

Over the years, NAGT has succeeded in identifying top-flight students for the program, and the USGS has succeeded in garnering the interest of competent and enthusiastic supervising mentors. The NAGT/USGS Cooperative Summer Field Training Program continues Pecora’s vision of greater educational involvement and provides a first rate professional experience to students early in their careers. It is a wonderful partnership that influences the career paths of future scientists in positive and exciting ways.

NAGT/USGS 2017 Cooperative Summer Field Training Program Internship Placements

Intern: Shane Amen
College: Idaho State University
Mentor: Ian Jezorek
Location: Cook, Washington
Project: Wind River watershed cooperative fish population and restoration assessment

Intern: James Anderson
College: Ohio University
Mentor: Kristin Byrd
Location: Menlo Park, California
Project: Integrating remote-sensing and ecological forecasting with decision support for wetland wildlife management and ecosystems services

Intern: Christa Anhold
College: Humboldt State University
Mentor: Matthew Bachmann
Location: Tacoma, Washington
Project: Water quality assessment of contaminated drinking water aquifers

Intern: Emilie Bowman
College: University of Texas at Austin
Mentor: Walter Mooney
Location: Menlo Park, California
Project: Earthquake hazards in the Central and Eastern U.S.

Intern: Jordon Bretthauer
College: Occidental College
Mentor: William Stephenson
Location: Golden, Colorado
Project: High-resolution geophysical investigations of hazardous faults and seismic ground motions

Intern: Eric Brown
College: University of Missouri, Kansas City
Mentor: Matthew Bachmann
Location: Tacoma, Washington
Project: Water quality assessment of contaminated drinking water aquifers

Intern: Samuel Burch
College: Sul Ross State University
Mentor: Susannah Erwin
Location: Columbia, Missouri
Project: Investigations in river habitat dynamics

Intern: Chelsea Bush
College: Georgia State University
Mentor: Denis LeBlanc
Location: Northborough, Massachusetts
Project: Cape Cod hydrologic research

Intern: Nicole Cholewinski
College: University of Utah
Mentor: Cal Ruleman and Shannon Mahan
Location: Denver, Colorado
Project: Utilizing geologic mapping and quaternary geochronology to unravel geomorphic histories

Intern: Aren Crandall-Bear
College: California State University, Sacramento
Mentor: Andrew Barbour
Location: Menlo Park, California
Project: Identifying natural and induced earthquake swarms at the Salton Sea Geothermal Field in California

Intern: Nolan Dellerman
College: University of Nevada, Reno
Mentor: Michael Poland
Location: Vancouver, Washington
Project: Geodetic monitoring of Cascade Range Volcanoes and Yellowstone

Intern: Aubree Dunshee
College: University of Minnesota, Twin Cities
Mentor: Denise Akob
Location: Reston, Virginia
Project: Microbial degradation of organic compounds in hydraulic fracturing produced waters

Intern: Trevor Dusza
College: University of Wyoming
Mentor: Perry Jones
Location: Mounds View, Minnesota
Project: Superior National Forest water quality data analysis and wetland water balance assessment

Intern: Alec Dziwanowski
College: Appalachian State University
Mentor: Jamie Shanley
Location: Montpelier, Vermont
Project: Hydrologic technician/geologic technician

Intern: Devin Eliason
College: Western Washington University
Mentor: Matthew Bachmann
Location: Tacoma, Washington
Project: Water quality assessment of contaminated drinking water aquifers

Intern: Sophia Fall
College: University of Michigan
Mentor: Nicholas Johnson
Location: Millersburg, Michigan
Project: Block the migration of an invasive fish using low voltage pulsed direct current

Intern: Cameron Folmar
College: University of North Carolina
Mentor: Walter Mooney
Location: Menlo Park, California
Project: Earthquake hazards in the Central and Eastern U.S.

Intern: Patrick Gannon
College: State University of New York, Buffalo
Mentor: Carol Prentice
Location: Menlo Park, California
Project: Paleoseismology of the Northern San Andreas Fault system

NAGT/USGS 2017 Cooperative Summer Field Training Program Internship Placements

Intern: Kacey Garber
College: Illinois State University
Mentor: Dianna Hogan and Kristina Hopkins
Location: Reston, Virginia
Project: Mapping and monitoring land use impacts on stream and floodplain geomorphology and water quality

Intern: Benjamin Grober
College: Western Illinois University
Mentor: Jonathan Glen
Location: Menlo Park, California
Project: Geophysical investigations related to geothermal, mineral, and water resources and natural hazards

Intern: Lisa Haas
College: University of Wisconsin, Madison
Mentor: Michelle Hornberger
Location: Menlo Park, California
Project: Geospatial assessment of metal contamination trends in a mine-impacted river

Intern: Samuel Helmuth
College: University of Wisconsin, Eau Claire
Mentor: Mary Hodges
Location: Idaho Falls, Idaho
Project: Complete 1:24,000 scale geologic map of the Butte City 7.5" quadrangle

Intern: Megan Hendrick
College: University of Michigan
Mentor: James O'Connor and Ralph Haugerud
Location: Portland, Oregon
Project: Mapping the Missoula Floods

Intern: Margaret Holahan
College: Indiana University
Mentor: James Vallance
Location: Vancouver, Washington
Project: Volcanic hazards: deciphering the history of volcanism by dating and correlating proximal lavas, pyroclastic aprons, and far-traveled ash deposits

Intern: Iris Holzer
College: Scripps College
Mentor: Ron Harvey
Location: Boulder, Colorado
Project: Fate and transport of micro-pollutants during surface water-groundwater exchange

Intern: Ann Hunt
College: University of Minnesota, Duluth
Mentor: John Lane
Location: Storrs, Connecticut
Project: Applied hydrogeophysics research

Intern: Aaron Kosobuki
College: Western Michigan University
Mentor: Jeffery Chaplin
Location: Clinton County, Pennsylvania
Project: Geochemical processes relating to resource extraction

Intern: Oleg Kozel
College: Colgate University
Mentor: Brent Topping
Location: Menlo Park, California
Project: Sources of nutrients and metals in the headwaters of the Klamath River Basin

Intern: Matthew Kramer
College: University of Nebraska, Lincoln
Mentor: Harry Dowsett
Location: Reston, Virginia
Project: Microfossil indicators of monsoon salinity, Bay of Bengal

Intern: Kenneth Lambert
College: University of Houston
Mentor: Jeffrey Chaplin
Location: Central Pennsylvania
Project: Geochemical processes and pesticides in vulnerable aquifers

Intern: Virginia Littell
College: University of Washington
Mentor: Lesleigh Anderson
Location: Lakewood, Colorado
Project: Alaskan peatland isotopes as recorders of North Pacific hydroclimate

Intern: John Malone
College: Augustana College
Mentor: Erik Beever
Location: Bozeman, Montana
Project: Investigating factors that determine the niche of a species living in rocky talus slopes

Intern: Evan McCann
College: Montana State University
Mentor: Erin Whorton
Location: Tacoma, Washington
Project: Quantifying glacier volume change from structure from motion, multi-stereo view technology

Intern: Robert Moak
College: Clemson University
Mentor: John Nimmo
Location: Menlo Park, California
Project: Measurement and quantitative interpretation of unsaturated zone flow processes

Intern: Bailey Nash
College: Iowa State University
Mentor: Miriam Jones
Location: Reston, Virginia
Project: Carbon balance of boreal peatlands following permafrost thaw

Intern: Sarah Ostertag
College: Wheaton College
Mentor: Jared Trost
Location: Mounds View, Minnesota
Project: Effects of natural attenuation of crude oil on water quality

NAGT/USGS 2017 Cooperative Summer Field Training Program Internship Placements

Intern: William Otto
College: Oregon State University
Mentor: Stephen DeLong
Location: Mounds View, Minnesota
Project: Landslide hazard in post-glacial landscapes

Intern: Zachary Palmer
College: University of Rhode Island
Mentor: Jonathan Glen
Location: Menlo Park, California
Project: Geophysical investigations related to geothermal, mineral, and water resources and natural hazards

Intern: Sierra Patterson
College: California State University, Fullerton
Mentor: Shane Detweiler
Location: Menlo Park, California
Project: Geological and geophysical studies of the San Andreas Fault system

Intern: Adam Price
College: University of Idaho
Mentor: William Farmer
Location: Denver, Colorado
Project: Representing the hydrologic cycle at a national scale: Tools for model evaluation and improvement

Intern: Molly Range
College: University of Michigan
Mentor: Marci Robinson
Location: Reston, Virginia
Project: Microfossil indicators of Paleocene and Eocene paleoenvironments

Intern: Schuyler Robinson
College: Brigham Young University, Idaho
Mentor: Melinda Erickson
Location: Mounds View, Minnesota
Project: Investigations in river habitat dynamics

Intern: Nicholas Rodgers
College: Ohio State University
Mentor: Katherine Skalak
Location: Reston, Virginia
Project: Hydrologic technician/geologic technician

Intern: Trent Sherman
College: California State University, Fresno
Mentor: Jeffrey Ziegewid
Location: Mounds View, Minnesota
Project: Fluvial geomorphology of the Upper Mississippi and Minnesota River basins

Intern: Ane Slabic
College: University of Houston
Mentor: Katherine Scheiderich
Location: Menlo Park, California
Project: Protecting critical groundwater-dependent resources at Pinnacles National Park

Intern: Betsy Smith
College: Sonoma State University
Mentor: Shad O'Neel
Location: Anchorage, Alaska
Project: Squishing the air out of the snow: Developing an understanding of firn compaction in mountain glacier mass balance

Intern: Hunter Songy
College: Louisiana State University
Mentor: Al Hostra
Location: Denver, Colorado
Project: Melt and fluid inclusion analysis in resource investigations

Intern: Katherine Swager
College: Union College
Mentor: Gerard Butch
Location: Troy, New York
Project: Surface water and ground water networks

Intern: Colin Sweeney
College: Virginia Polytechnic Institute and State University
Mentor: John Lane
Location: Storrs, Connecticut
Project: Applied hydrogeophysics research

Intern: Jazmine Titular
College: California State University, Fullerton
Mentor: Shane Detweiler
Location: Menlo Park, California
Project: Geological and geophysical studies of the San Andreas Fault system

Intern: Luan Tran
College: University of Texas, San Antonio
Mentor: John Mullaney
Location: East Hartford, Connecticut
Project: Continuous water quality monitoring in Connecticut Rivers

Intern: Elijah Turner
College: University of Kansas
Mentor: Walter Mooney
Location: Menlo Park, California
Project: Earthquake hazards in the Central and Eastern U.S.

Intern: Jessica Welch
College: Illinois State University
Mentor: Andrew Cyr
Location: Menlo Park, California
Project: Geomorphic mapping and landscape change, Southern California and Rocky Mountains

Intern: Katherine Wheeler
College: University of Houston
Mentor: Jill Bourque
Location: Gainesville, Florida
Project: Characterizing the ecology of seep-associated invertebrate communities on the Atlantic margin