

Register for a workshop in Montrose, Fort Morgan, Pueblo, or Denver to explore ways to use geospatial technology with students. The first opportunity is July 14th - look for more information in this newsletter.



Summer 2018

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Meet the National Geographic Regional Director

Houston-based Chris Hines is the Regional Director overseeing Arizona, Colorado, Idaho, Montana, New Mexico, Texas, Utah, and Wyoming. Most recently, he served as Deputy Superintendent at Gray's Reef National Marine sanctuary in Savannah, Georgia.



In May, Chris visited Colorado to meet educators and learn about current programs and projects.

Chris brings diverse experience in the public, private, and nonprofit sectors to National Geographic, including four years in Tanzania with a nonprofit organization that trains rats to detect landmines, four years developing educational outreach programs to support ocean conservation, four years in the corporate sector, and a year-long State Department fellowship focused on environmental education.

Chris has a lifelong love of geography and a passion for exploration. He has always been fascinated with maps and stories of exploration. National Geographic's captivating images compelled Chris to a career that included international development and conservation, opening his eyes to the wonders of travel, paving the way for cross-cultural experiences that include exploring, working, and studying in more than fifty countries. He has also explored education policy with Jane Goodall in Tanzania and Sylvia Earle in Georgia. He is thrilled to join the Educator Network and looks forward to working closely with Alliance members and partners to build on past successes and to inspire students and educators.

Originally hailing from California, Chris received a B.S. in Business from Purdue University and an M.S. in International Public Service from DePaul University. He enjoys paddling, diving, eating, and anything else outdoors with his wife, Amanda. You may contact Chris at chines@ngs.org.

Meet the National Geographic Geography Steward

Michelle Olsgard Stewart is the new Colorado Geography Steward for National Geographic

Standards

National Geographic Educator Community

Resources for Geography Educators

Wondering what educators have accomplished during previous Colorado Geographic Alliance professional development programs?

Geo-Inquiry and Power of Data Summer Institute in Steamboat Springs

In June 2018, Teachers from Peetz to Durango and Salida to Longmont gathered to learn about access to geospatial technology programs, to hike around the Colorado Mountain College campus investigating bees and Ute sacred spaces, and to learn about the geology of the hot springs. In addition to knowledge about the National Geographic Geo-Inquiry process, teachers developed partnerships and connections to inspire new approaches in the classroom. Review all the activities in this [story map](#) by Grand Junction teacher Heidi Ragsdale.

Teachers Explored Teaching Geography using Primary Sources in Aspen

In 2014, the Colorado Geographic Alliance and the [Western Region Teaching with Primary Sources](#) Program, along with the [Arizona Geographic Alliance](#), [Geographic Alliance in Nevada](#), and the [Center for Geography Education in Oregon](#), developed an approach to bring together geography and primary source analysis. This work continues to resonate with teachers. In April 2018, Several educators on the Western Slope were introduced to a variety of

Society. Michelle earned her Ph.D. in Geography from the University of Colorado Boulder in 2014 and has conducted



In April, Michelle served as an appraiser in the first GeoChallenge, held at the University of Denver.

interdisciplinary research in Tibetan regions of China for over a decade. From 2011-2012, she was a doctoral fellow at Harvard's Program in Science, Technology and Society, and from 2013-2016, she was the Pick Visiting Assistant Professor of Environmental Studies at Amherst College. As a Colorado native, Michelle is delighted to be back in the state. She currently lives in Steamboat Springs with her husband, Nathan Stewart, who is on the faculty of Sustainability Studies at Colorado Mountain College, and two boys, Michael and Leif. In addition to her engagement with National Geographic Society, Michelle will be teaching online for the University of Denver's University College Environmental Policy and Management Master's program starting this fall. Michelle welcomes any and all NGS Colorado Geography Steward questions and comments, and can be reached at colorado.geographysteward.ngs@gmail.com.

Where can you find a Giant Map of Colorado?

Several schools, districts, BOCES, and educational organizations across the state have purchased a giant map from [National Geographic](#). Some of these maps are available for borrowing by teachers and schools in the region, while others are for use only in a particular location. Check out this [map](#) for information about a Giant Map of Colorado near you. Wondering who else in your region might be interested in collaborating to purchase a Giant Map of Colorado? Contact coga@uccs.edu and we can put you in touch with Giant Map users in your area.



Exploring the Continental Divide on the Giant Map of Colorado.

Esri Introduces Civics GeoInquiries

materials including [tools](#) to help interpret primary sources through a geographic lens and [Library of Congress](#) resources during a snowy April weekend hosted by Aspen Country Day School and the Aspen Historical Society.

Resources for Teaching about Science

Colorado is home to strong networks of scientists and researchers. BSCS is in the process of releasing new [tools](#) to support teaching the Next Generation science standards.

[Rising Temperatures Impact Colorado River Resources](#) from the USGS combines a local and national perspectives.

Remember that experts from business, government, and nonprofit organizations are always interested in speaking about what they know in classrooms. Search in your area for geography departments at higher education institutions, geospatial technology professionals in county offices, and geographers mapping site locations in growing businesses.

Do you have a student who is looking for details about what geographers do? Visit the American Association of Geographers [career website](#).

Education and Community Engagement Specialist Sought

UNAVCO invites [applications](#) for the staff position of Education and Community Engagement Specialist, responsible for managing the portfolio of work under the geoscience workforce (geo-workforce) initiative including a strong emphasis on broadening participation. The successful candidate will be



Looking for a way to integrate geography into your civics, history, or government class? Esri has a new collection of [Geolnquiries for Government](#). They are available for beta testing through July 1, 2018. Explore topics including foreign aid, voting models, and the death penalty through online mapping exercises.

Upcoming Professional Development Opportunities

Check with organizers even if the official registration date has passed. Sometimes plans change.

Geospatial Technology in the Classroom

Take a day to dive into learning about ways to bring geospatial technology into your classroom. Whether you teach science, literature, math, or social studies, there are materials that can support your students in asking spatial questions and introducing them to essential online mapping tools. This professional development workshop is intended for elementary and secondary educators who are interested in learning about how to set up free organizational accounts for ArcGIS Online; how to use mobile tools such as Survey 123, Collector, and Explorer; how to access Geolnquiries, self-contained online mapping exercises to enhance subjects including civics, math, environmental science, and human geography; and why and how to use geospatial technology in instruction.

Participants will receive access to Esri online accounts and materials, be introduced to the Esri school program, and become part of a network of teachers in the region who are interested in stretching their students' understanding of mapping and technology. Instruction will take place at History Colorado sites and affiliates across the state. Funding for instruction and support is provided by Esri and History Colorado. Four identical workshops will be held in different locations across Colorado. Breakfast and lunch will be provided. Participants will need to bring their own computers. Credit from the University of Colorado Colorado Springs will be available for attendees who wish to create their own Geolnquiry following the workshop.

Make your choice from the workshops below:

- History Colorado, Denver, July 14, 2018
- Fort Morgan History Museum, Fort Morgan, September 22, 2018
- El Pueblo History Museum, Pueblo, October 27, 2018
- Ute Indian Museum, Montrose, October 27, 2018

Register through [History Colorado](#).

Advanced Placement Human Geography Workshop

This workshop will take place July 9 - 10, 2018 and will be led by Professor Alexander Murphy of the University of Oregon, who specializes in political and cultural geography, with regional emphases in Europe and the Middle East. It will focus on the ways in which core geographic concepts set forth in the AP Human Geography course outline-region, pattern, place, space, and scale-provide insight into fundamental developments unfolding around the world. While this workshop is primarily geared for teachers in Wyoming, there may be some space available. Contact the [Wyoming Geographic Alliance](#) to [register](#).

Democracy is Not a Spectator Sport

Free workshop to support teachers in engaging students in local government. All lessons are teacher-written, classroom-tested, and meet Colorado Social Studies Standards. Workshops will be held August 1 in Longmont and August 7 in Denver. Email [Kent Willmann](#) at Lessons on

a member of the Education and Community Engagement program staff. Lead the geoworkforce initiatives to broaden participation. The disciplinary focus is solid earth sciences with an emphasis in geodesy at a National Science Foundation facility in Boulder, Colorado. This is a full-time position with review of applications beginning July 2, 2018.

Colorado Alliance for Environmental Education Seeks Board Members

Nominate yourself or a colleague who is passionate about advancing environmental education in Colorado to serve on the CAEE Board of Directors by August 1, 2018. Visit the CAEE [website](#) for information.

American Geographical Society Teacher Fellows Initiative

AP Human Geography teachers are invited to apply to become a teacher fellow where they are able to expand their knowledge base in geography and geospatial science and explore opportunities to interact with other [Teacher Fellows](#) and the diverse members of the AGS community.

Esri Education Administration Survey

Share [information](#) about how ArcGIS is administered in educational settings and to quantify time and cost spent administering ArcGIS.

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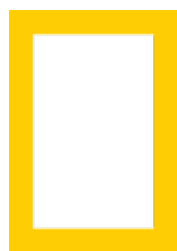
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Local Government for details.

National Geographic Educator Funding

National Geographic offers several competitive funding opportunities for educators. Investigate Requests for Proposals that seek eligible education projects in the areas Documenting Human Migration, Reducing Marine Plastic Pollution, and Participatory Science. Several proposals are due July 10th. Visit [National Geographic](#) for details. Questions after reviewing the material? Please email cre@ngs.org.



NATIONAL GEOGRAPHIC

Student Awards for Best Use of Geography at Colorado State Science Fair and at History Day in Colorado

The Colorado Geographic Alliance provides one senior and one junior award each to students who demonstrate the best application of geography in a history day or science fair project. Learn about this year's winners and their projects.

Seventh grader Madison Miller from Monte Vista Middle School won the junior award at the [Colorado Science and Engineering Fair](#) for her project entitled "Well, Well, Well, What Do We Have Here?" while tenth grader Rithwik Mylavarapu of Fairview High School in Boulder captured the senior award for his investigation, "Leveraging Satellite Imagery to Map Road Surface Conditions".

As part of the [National History Day in Colorado](#) state contest, Sophie Boileau from Fairview High School won for her paper on "From Acadians to Cajuns: How a People of Compromise were Overpowered by International Conflict." Emery Jansen of Southern Hills Middle School in Boulder wrote the best junior paper in "Where the River Runs Dry: Conflict Over Water in the West and the Compromise of the Colorado River Compact". Emery also went on to compete at National History Day in Maryland where she won third place.

Congratulations to the students and their teachers.

National Geographic Geography Bee & GeoChallenge

This year, Colorado sent seventh grader Garrett Fleischmann from Stargate Middle School in Thornton [to compete](#) in the [2018 National Geographic Bee](#).

In conjunction with the Geography Bee, six teams from Colorado competed in the GeoChallenge responding to a problem, challenge, or critical issue by using research, collaboration, creativity, and communication to create and present real-world solutions. See highlights from this year's regional competitions on National Geographic's [website](#).



ArcGIS Online Competition Winners

Thanks to the Colorado participants in the 2018 ArcGIS Online (AGO) Mapping Competition for Middle Schools and High Schools. Mentors, including John Nolte and Isabel Mendoza, thoroughly enjoyed the process of assisting both students and teachers. It was amazing to see the level of skill increase throughout the course of the competition, which provided for some very fascinating projects. Participants brought a wide range of technology skill levels, from middle school students who did not have internet access at school to high school students working with a mentor running the school system's GIS and technology efforts, including a drone program! Thank you to the judges who provided perspective and thoughtful comments. We can't wait for all of your submissions in next year's [AGO Mapping Competition](#)! Questions about planning? Contact [Matt Cooney](#) at Colorado College. Explore these story maps for inspiration: [Riparian Restoration Management Plan](https://bit.ly/2wyjS6L) - <https://bit.ly/2wyjS6L>
[The Need for Agricultural Education](https://bit.ly/2jWai0b) - <https://bit.ly/2jWai0b>
[Leveraging Satellite Imagery](http://arcg.is/154Wqm) - <http://arcg.is/154Wqm>
[Queen's Canyon Quarry](https://arcg.is/05iLK5) - <https://arcg.is/05iLK5>

Looking for ideas about how to share information about Colorado in a map?

Check out the [Colorado Digital Atlas](#). This resource provides a great start to exploring our state, and is an excellent example of what can be done using the Esri [Story Map](#) program.

National Conference on Geography Education in Québec City, August 2018



This year, the National Council for Geographic Education has partnered with the International Geographical Union and Canadian Association of Geographers to host its annual conference August 6 through 10, 2018 in Québec City. The submission and registration processes are different this year compared to past years. With a purchase of a conference registration, you will have access to all sessions, plenary talks and luminary talks, lunches and coffee breaks, ice breaker, closing ceremony and delegate bag. For details, and to register, visit the [NCGE Conference website](#).

Congratulations to Colorado Geographers on their continuing accomplishments!

[John Harner](#), Professor of Geography and Environmental Studies at the University of Colorado Colorado Springs, was honored with the [Thomas Jefferson Award](#) from the University of Colorado in May 2018.

[Karen Barton](#), Professor of Geography & GIS at the University of Northern Colorado, will receive a Distinguished Teaching Award - Higher Education from the [National Council for Geographic Education](#) at its upcoming conference in Quebec. Our neighbor to the north, Germaine Wagner of the Wyoming Geographic Alliance, is the 2018 recipient of the Outstanding Support for Geography Education Award.

Weren't able to make it to Vail for [Joseph Kerski's TED talk](#)? Check it out online, where he discusses the "Whys of Where".

[Phillip Morris](#), [Cerian Gibbes](#), and [Steve Jennings](#) of the University of Colorado Colorado Springs, recently published "An examination of student veteran education pathways at an American university" in the [Journal of Geography in Higher Education](#).

Jayne Margolin-Sneider, a science teacher at [Westview Middle School](#) in Longmont, is heading to National Geographic's 2018 National Summer Institute in Jackson Hole, Wyoming in July.

[Melinda Laituri](#) of Colorado State University published an article on verifying [satellite imagery](#).

Ben Graves, a science and solar energy teacher at Delta High School, and Alison Travis, a first-grade teacher at Prospect Ridge Academy in Broomfield, have been named [National Geographic Grosvenor Teacher Fellows](#) for 2018.

Census Bureau Geographer [Jim Castagneri](#) from Lakewood shares his perspective on how people can access and use [census geographic and statistical data](#).

Revised Colorado Academic Standards



Forging agreement on public policy issues is never easy. Thanks to all the educators across the state who came together to update the Colorado Academic Standards. You can investigate the revised details on the Colorado Department of Education [website](#).

National Geographic Educator Community

To keep in touch, become a [National Geographic Certified Educator](#), apply for an [education grant](#), or keep this [bookmark](#) on your computer.

COGA on Facebook, Twitter, and Blog



Follow us on Facebook

Our [Facebook page](#) posts upcoming events that are open to the public. You can also find interesting links to photo galleries and articles on geography.

Follow us on Twitter

Looking for a place to upload those great photos from the visit of the Giant Map of Colorado? COGA now has a [Twitter account](#). Share your perspectives with #ColoradoGiantMap.

Check out our Blog

[COGA's blog](#) shares workshop opportunities and professional development sessions for educators as well as geography education resources.

Colorado Geographic Alliance

VISION:

Changing our understanding and
experience of the world

MISSION:

To instill and nurture spatial awareness
and geographic literacy

VALUES:

Inspiring passion for Earth and its inhabitants
Connecting people with geography
Honoring inclusivity and diversity
Exploring physical and human environments
Developing spatial perspective

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