

Preliminary Program
2013 National Conference on
Geography Education

National Council for Geographic Education
98th Annual Meeting
Denver, Colorado August 1-4, 2013



Marriott City Center Denver
1701 California Street
Denver, Colorado

*“Reaching New Heights in
Geography Education”*

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National Council for Geographic Education

Supporting geography education since 1915

The National Council for Geographic Education (NCGE) supports geography teaching at all levels—from kindergarten through university. Our members include teachers, professors, students, libraries, businesses, and others who support geographic education.

Membership in NCGE is open to all

Annual membership dues range from \$30 - \$95 for individuals. Membership includes the bimonthly *Journal of Geography*, the NCGE Newsletter *Perspective*, *The Geography Teacher*, reduced registrations for annual meetings and access to a wide variety of information sources and publications.

Inquiries about membership and services should be addressed to:

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Tuesday, July 30, 2013 Meeting

Gold Coin Invitation
NCGE Administrative Committee Meeting
Tuesday, July 30, 1:00 pm - 5:00 pm

Tuesday, July 30, 2013 All-Day Field Trips

Pre-Registered
Waldo Canyon Fire and Garden of the Gods
Tuesday, July 30, 9:30 am - 5:30 pm
Guide: Steve Jennings
Look at the impacts of the Waldo Canyon Fire on the city of Colorado Springs. Explore the Garden of the Gods, the spectacular rock formations that represent the geologic history of the Pikes Peak region. The trip will also look at the human-environment interactions in the adjacent Red Rock Canyon Open Space.
Cost/Person: \$70 *This trip includes lunch*

Pre-Registered
Field Trip: Geomorphology, Ghost Towns, and Gambling
Tuesday, July 30, 9:00 am - 3:00 pm
Guide: Casey Allen
Join a local geomorphologist for a jaunt through Colorado's old mining towns. We will visit historic Blackhawk (gambling), Central City (old cemetery and migration), and Idaho Springs (lunch). Bring your lucky charms and take a chance at one of the many casinos en route!
Cost/Person: \$60

Pre-Registered
Field Trip: Mt. Evans
Tuesday, July 30, 8:30 am - 5:30 pm
Guide: Jack Reed
Travel through the life zones of the Rocky Mountains along the Mount Evans Highway. This highway as designed by the Olmstead Company. See stately bristlecone pines, alpine lakes, and spectacular views offered only by summiting a 14er.
Cost/Person: \$75 *This trip includes lunch*

Pre-Registered
Field Trip: Energy Tour – Wyoming
Tuesday, July 30, 8:30 am - 5:30 pm
Guide: Nadia Kaliszewski
Wyoming is the number one exporter of energy in the United States. The diverse array of energy resources that are developed, produced and exported from Wyoming are critical to powering our country. Come see firsthand two very different forms of energy being developed and produced in southeastern Wyoming— a coal-fired electricity plant and a wind energy facility. Please wear close-toed shoes and long pants.
Cost/Person: \$90 *This trip includes lunch*

Wednesday, July 30, 2013 Meetings and Special Sessions

Molly Brown
NCGE Administrative Committee Meeting
Wednesday, July 31, 8:00 am - 12:00 pm

I **Mattie Silks** **I**
NCGE Executive Planning Board Meeting
Wednesday, July 31, 1:00 pm - 5:00 pm

Colorado G and H **I**
National Geographic
2013 Geography Awareness Week Training
Wednesday, July 31, 8:00 am - 5:00 pm

Wednesday, July 31, 2013 All-Day Field Trips

Pre-Registered

Field Trip: Terry Bison Ranch – Cheyenne, Wyoming **Wednesday, July 31, 9:00 am - 3:30 pm**

Guide: Judy Kallal
See how the animals that used to dominate the Great Plains are making a comeback. Visit a bison ranch in Wyoming. Take a one hour tour on the only privately owned and operated train system in Wyoming or Colorado. On the tour you will hear about the ranch's rich history, see our many animals (camels, ostriches, goats, pigs etc.) and for the grand finale, the train will actually take you all right into the middle of one of our bison herds where you can hand feed the buffalo from out the train windows. Enjoy a bison burger lunch after the tour.

Cost/Person: \$95

Pre-Registered

Field Trip: Historic Colorado Springs **Wednesday, July 31, 8:30 am - 5:30 pm**

Guide: John Harner
Explore the complex development of the city. Learn about Little London, "lungers" who came to Colorado Springs for the Tuberculosis cure, mining moguls, and the military connection.

Cost/Person: \$60

Pre-Registered

Field Trip: Rocky Mountain National Park **Wednesday, July 31, 8:30 am - 5:30 pm**

Guides: Steve Jennings
Rocky Mountain National Park is nearing its centennial. Take a trip to the top of Trail Ridge, high above treeline. See the interaction of numerous environmental factors with the plants and animals of this park.

Cost/Person: \$80 *This trip includes lunch.*

Pre-Registered

Field Trip: Ludlow Massacre Site **Wednesday, July 31, 8:00 am - 7:00 pm**

Guides: Karin Larkin and Mike Larkin
The centennial of the Ludlow Massacre is this year. This deadly confrontation resulted from the conflict between labor and mine owners exacerbated government intervention. See the role of coal mining and steel production in Colorado through a series of exhibits in Colorado Springs, Pueblo and Ludlow.

Cost/Person: \$115 *This trip includes lunch and admission costs.*

Thursday, August 1, 2013 Afternoon Half-Day Field Trips

Pre-Registered

Field Trip: NCAR + Boulder Flatirons Tour- Boulder, CO **Thursday, August 1, 12:30 pm - 5:30 pm**

Guide: Eileen Carpenter
Learn about the latest in climate research by joining climatologists and science educators on a tour of the National Center for Atmospheric Research (NCAR). The tour includes the VisLab, a state-of-the-art scientific visualization environment for analyzing and exploring Earth's atmosphere, oceans, and Earth-Sun relationships. We will also take a short hike on the Mesa Trail where we will explore and discuss the physical environment of the Flatirons of Boulder, on the boundary between the Great Plains and Rocky Mountain ecoregions, and open space preservation in Boulder County. Bring good walking shoes, water bottle, sunblock, and a camera.

Cost/Person: \$40

Pre-Registered

Field Trip: Gold Dust Tour: Walking Tour of Historic Denver **Thursday, August 1, 1:00 pm - 3:00 pm**

Guide: Kevin Pharris
Discover Denver's Early Days: A tour of Larimer Square and the Union Station areas of lower downtown as the history of the gold rush and Denver's founding are explored through the built environment.

Cost/Person: \$20

Pre-Registered

Field Trip: Dinosaur Ridge and Red Rocks Park - Morrison, CO **Thursday, August 1, 12:30 pm - 5:30 pm**

Guide: Peter Modreski
Get up close and personal with famous dinosaur fossil sites, including in-place bones (Jurassic Period) and tracks (Cretaceous Period), tour the scenic Red Rocks Amphitheater and park, and take a short hike along the crest of the Dakota Hogback to gain understanding of how the present landscape developed at the foothills between the Great Plains and the Rocky Mountains. Bring good walking shoes, water, sunblock and a hat.

Cost/Person: \$35

Pre-Registered

Field Trip: Eldorado Canyon State Park and Pool **Thursday, August 1, 12:30 pm - 5:30 pm**

Guide: Steve Jennings
Spend the afternoon by looking at over a billion years of geologic history in one of the steepest canyons in Colorado. A short hike in the foothills of the Rocky Mountains will expose you to magnificent geology and plant communities. Top off the adventure with a dip in the El Dorado Springs spring-fed pool. Founded in 1905, the resort around the pool was called the "Coney Island of the West" and attracted a variety of celebrities through the 1920s.

Cost/Person: \$25

Thursday, August 1, 2013 Special Events

Colorado E-F
Opening Session
Thursday, August 1, 6:00 pm - 7:00 pm

All **Denver Ballroom/Foyer** **All**
Exhibit Hall Opening and Opening Conference
Reception
Thursday, August 1, 7:00 pm - 9:00 pm

Thursday, August 1, 2013 Morning Sessions

8:00 am

Colorado A **All**
Paper Session
Thursday, August 1, 8:00 am - 8:45 am
Paper 1: A Framework for Matching Geospatial Technologies with Courses of Study Standards to Teach Geography Concepts

8:00 am - 8:20 am

Chyla Butram,
Lisa Keys-Mathews

Bill Strong

Recently completed research has aligned the Alabama Courses of Study for Social Studies, Science, and Technology with geography concepts and geospatial technology suitable for a classroom experience. This presentation provides the results of this research which determined where GIS and geospatial technologies can be integrated into Alabama K-12 classrooms to teach geography concepts. This presentation will also include an overview of Alabama geography education, the courses of study framework that includes where geography may be taught, lesson plan suggestions, and ideas on instructional methods and GIS pedagogy.

Paper 2: Use of Mobile Device Apps to Interactively Teach Geography Concepts

8:20 am - 8:40 am

Matt Allen,
Chyla Butram

Lisa Keys-Mathews

The use of mobile devices such as smartphones and tablets opens up opportunities for geographic learning in 7-12 classrooms through the location-aware capabilities of these devices. Pairing mobile applications with learning standards allows for lesson plans that will teach students spatial awareness while enjoying the learning process. Harnessing this technology creates an interactive classroom, while using something that is second nature to the majority of present-day students. This presentation will provide an overview of mobile device apps, relationship to geography standards, and examples of classroom lessons using mobile device apps.

Colorado B **All**
A GPS Toolkit to Guide Your Social Studies Teaching: G = Geography P = Primary Sources S = Strategies & T = Technology/Other Tools
Thursday, August 1, 8:00 am - 8:45 am

Ruth King, Cedar Ridge Elementary

The Common Core curriculum provides us, as teachers, opportunities to incorporate the use of geography, primary sources, and learning strategies, along with technology tools, in our 4th-12th grade classrooms. In this session you will be given ideas on how to weave geography throughout your curriculum. You will be introduced to online interactive activities and other technology tools that will engage your students in geography, history, and culture. The presenter will also share professional learning and study opportunities available for teachers that will enhance and enrich both your learning, and that of your students, such as the Goethe-Institute's TOP to Germany.

Colorado C **All**
The Geography of Religion
Thursday, August 1, 8:00 am - 8:45 am

Hugh Campbell, Concord University

Especially in AP Human Geography, students must have a thorough understanding of place, movement, and cultural interactions of significant leaders and the associated geographical movements throughout history. As a subcategory, significant religious figures and the associated geographical movements are essential. The who, what, when, where, and why of religious movements in the United States form an essential body of knowledge for the student. The session will provide a unique perspective of the geography of religion in United States history. The format of the session will utilize Socratic discourse to actively engage the audience and incorporate the use of graphic organizers.

Colorado D **ES**
Look What Came from Germany
Thursday, August 1, 8:00 am - 8:45 am

Patti Edwards, MS Geographic Alliance

Come discover items that originated in Germany. Develop mapping skills as you locate these towns on a map of Germany. Research these items, list attributes, identify qualities/characteristics or parts of the product. Use figurative, creative writing as you write a Bio Poem of the object. Have fun solving the riddles". Learn about the Transatlantic Outreach Program (TOP) by the Goethe Institute which sponsors two week study tours in Germany.

Thursday, August 1, 2013

Morning Sessions

Colorado G Paper Session

Thursday, August 1, 8:00 am - 8:45 am

Paper 1: Promoting Teacher Adoption of GIS using Teacher-centered and Teacher-friendly Web-based GIS Training Tutorials 8:00 am - 8:20 am

Jung Eun Hong, University of West Georgia
One factor underlying the use of geographic information systems (GIS) technologies in schools is the interest and willingness of teachers to learn and adopt these technologies in their teaching. Previous studies indicate that the lack of teacher training is one of the key barriers to GIS adoption. In order to promote teacher adoption of GIS, a user-centered design methodology was employed to plan, design, and develop teacher-centered and teacher-friendly web-based GIS training tutorials for middle school social studies teachers. Most participants rated the tutorials positively. After testing the tutorials, 20% of the participants implemented web-based GIS in their classrooms.

Paper 2: Designing and Implementing an Online Spatial Thinking and Analysis Course for Educators

8:20 am - 8:40 am

Joseph Kerski, Esri
What are the best strategies for designing and implementing an online spatial thinking and analysis course for educators? How do such courses change instructional practice and foster spatial thinking and analysis? The author shares his experience in creating a 5-week long course that balances theory and practice. The hands-on activities include analyzing hazards, population change, land use, climate, and other issues from local to global scale, including ArcGIS Online and other tools. These courses can attract those in other disciplines to the power of geography.

Colorado H Council for International Educational Exchange (CIEE) Study Abroad and Faculty Development

Thursday, August 1, 8:00 am - 8:45 am

Wyndham Whynt, Livingstone College
This power point presentation will discuss various opportunities offered by the CIEE for both students and faculty members to engage in various study abroad programs. Participants, both those in the short and long term programs, are provided a chance to experience foreign cultures and land through actual college studies or through faculty development seminars. Examples of opportunities explored will include various programs offered in Senegal, Turkey, Cuba, and other locales. Also, examples of how these opportunities can be incorporated into geography courses will be discussed.

All

Colorado I Geographic literacy - A Non-educator's Approach

Thursday, August 1, 8:00 am - 8:45 am

Barry O'Reilly, North Carolina Geographic Alliance
This presentation will explore the success of an innovated approach to geographic literacy in North Carolina from a non-educator's perspective. Using National Geographic's Giant Traveling Maps to promote geography education in local schools, home school co-ops and community groups the presenter has reached over 35,000 K-8 students in the past five (5) years. We will also look at programs that engage STEM (science, technology, engineering and math) educators with geospatial concepts that promote spatial thinking and geographic awareness, including "GeoConnect" and "GeoSTEM".

Colorado J Ethnographic Research to Understand Cultural Geography

Thursday, August 1, 8:00 am - 8:45 am

Mary Sweeney, Denver Public Schools
The cultural puzzle is unlocked as students apply ethnographic research techniques to study distant and near people in a high interest way. Common Core Standards and 21st Century Skills are applied in an interdisciplinary way. Students make choices and experience the highest levels of thinking by gathering, observing, analyzing, synthesizing and presenting data in medium of their choosing. Ethnographic or anthropologic research is a life skill for students striving to understand people in all groups, for present and future learning, work and living settings. Students employ research, creativity and higher order thinking skills to understand all cultures.

Molly Brown Archives on the Arctic - Connecting to Global Issues with Primary Sources

Thursday, August 1, 8:00 am - 8:45 am

Marianne Kenney, Denver Public Schools, Library of Congress Teaching Primary Sources
Michelle Pearson

The resource-rich Arctic is changing faster than anywhere on Earth due to climate change and, according to The Economist, is not only "letting alarm bells ring for environmentalists, but [also] opening up new perspectives for trade and development." In order to meet future challenges, it is vital that today's students learn more about issues already at play in the Arctic. Participants will be introduced to a rich reservoir of digitized primary source materials and tools for analysis while actively engaging in geographical inquiry. Experience a hands-on standards-based lesson and leave with an array of digital resources and lessons.

Gold Coin Computer Lab Session

Thursday, August 1, 8:00 am - 8:45 am

TBD

**Space for this session is limited. Seating available on a first come, first served basis.*

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Thursday, August 1, 2013

Morning Sessions

9:00 am

Colorado A MS

Geography Grows a Stem

Thursday, August 1, 9:00 am - 9:45 am

Patricia Hutchinson, Arizona Geographic Alliance

This lesson results from the Spring/Summer STEM Institute held at ASU in 2013. With the common core standards in place in many districts it is very apparent that Geography is fighting to remain viable curriculum.. But geography shares commonality with many of the sciences, beyond earth science. It also integrates with math and social studies standards. Many of the math and science jobs of the future will require strong geographic knowledge. GPS systems, Google Earth, commercial systems, like the Mars Explorer and forensics all depend on geographic expertise. STEM attaches nicely to geography. This lesson will apply and integrate these disciplines.

Colorado B MS, HS

How long does it take to walk from Quebec to Kentucky?

Thursday, August 1, 9:00 am - 9:45 am

Cynthia Resor, Eastern Kentucky University

Geography matters when examining historical primary sources. For example, during the War of 1812, several Kentucky soldiers walked home from Quebec after being released as prisoners of war. The journals of the soldiers are much more meaningful if the geography and events of this 1,100 mile journey are closely examined. In this session, we will investigate the geography of several American history primary sources from the War of 1812, the Civil War, and other periods. Strategies for 6-12th grade for integration of the Common Core Standards for Literacy, American history and geography will be presented.

Colorado C HS

Using Council for Economic Education Curriculum to Teach AP Human Geography

Thursday, August 1, 9:00 am - 9:45 am

Scott Myers, Colorado Geographic Alliance

A primary focus of the AP Human Geography strand Industrialization and Economic Development is the emphasis on the spatial character of the material conditions of people. Geographers study levels of economic indicators to understand the origins of development and the economic connections between more developed and less developed countries. A central question is how less developed countries benefit from international trade. Using curriculum from the Council for Economic Education, strategies will be presented to help facilitate students learning why natural, human, and capital resources and different ways of combining these resources have different values for different societies

Colorado D All

Census Geography and Data Workshop

Thursday, August 1, 9:00 am - 9:45 am

Angeles Ortega, U. S. Census Bureau

James D. Castagneri

The U. S. Census Bureau is the main agency responsible for producing data about the American people, places and the economy. This workshop will review the geography that defines these data. We will also discuss various educational resources such as demographics on fertility, mortality, migration and the economy. We will introduce the American Fact Finder as the main source of demographic information and demonstrate how to access data at various levels of geography.

Colorado G All

Paper Session

Thursday, August 1, 9:00 am - 8:45 am

Paper 1: How does GIS Use Impact Students' Spatial Thinking?

9:00 am - 9:20 am

Robert Kolvoord, James Madison University

Spatial thinking skills play an important role in a variety of disciplines. The value of GIS in supporting student spatial thinking has been an article of faith in our community, however little research has been done to examine this impact. We have conducted research on students participating in the Geospatial Semester (GSS). We've analyzed interview transcripts of GSS and non-GSS students to assess changes in their use of spatial language across the duration of students' projects, and in analyzing scenarios. We'll present results and discuss their implications for the impact of GIS on students' spatial thinking skills.

Paper 2: Energy in Place

9:20 am - 9:40 am

Michael Jabot, State University of New York at Fredonia

This paper will present the impact of joining two extremely important and ambitious documents, Geography for Life and the Next Generation Science Standards, around the development of energy literacy. The confluence of these two documents around the development of spatial understandings and connections to place allow for a very powerful approach to the development of students understanding of energy and its use. Examples of the methodologies used and curriculum developed will be shared as well as insights into how participants can replicate this work.

Thursday, August 1, 2013 Morning Sessions

Colorado H Paper Session

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Thursday, August 1, 9:00 am - 9:45 am Paper 1: Using the State of Texas Assessment of Academic Readiness to Improve Geographic Literacy

9:00 am - 9:20 am

Jeff Lash, University of Houston-Clear Lake
Texas is well-known for its educational accountability system. The system places a premium on standardized testing to measure not only student learning, but also teacher and administrator performance. While the system is not perfect, there is a grain of truth in the adage "you measure what you treasure." This research assesses the degree to which the State of Texas Assessment of Academic Readiness (STAAR) World Geography End-of-Course (EOC) exam promotes, what the Road Map for 21st Century Geography report refers to as, a balance between "knowing geography" and "doing geography."

Paper 2: Designing Clicker Questions to Promote High-Level Geographic Learning

9:20 am - 9:40 am

Yu Zhou, Bowling Green State University
The centerpiece of using clicker in the classroom is the questions posted to students. A clicker question is mostly in the multiple-choice form. Many educators consider the multiple-choice question (MCQ) format as the most flexible and effective method in assessing student learning. If designed properly, a MCQ should be able to assess student learning at different cognitive levels (e.g., knowledge recall, comprehensive understanding, problem-solving application, creative synthesis, and critical evaluation). Most MCQs in question banks that come with college Geography textbooks rest at the low-end of Bloom's model. Although simple knowledge recall questions have their purpose, it is also important to have MCQs to promote students' higher-level learning.

Colorado I

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Teaching and Living Human Geography Outside the Classroom: a father's approach

Thursday, August 1, 9:00 am - 9:45 am

Enrico Contolini, Parent
Most American high school and college students are not interested in geography and, according to several studies, have a hard time identifying countries on a map. Still, I believe both teachers and parents can help students appreciate and live "geography through a humanistic and personal approach which raises their awareness of other people places and cultures. Various ideas can be used to inspire students. The presentation will also touch on my geographic and personal journey as my daughter's coach over the past several years during her pursuit of the National Geographic Bee and the strategies and ideas I have learned and used along the way.

Colorado J

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A Multi-state Teacher Professional Development Program: Focus on the Mississippi River Watershed

Thursday, August 1, 9:00 am - 9:45 am

David Rutherford, University of Mississippi
Carley Lovorn, Mississippi Geographic Alliance
This workshop describes and provides the resources produced from the first year of a project to develop a multi-state, teacher professional development program focused on the geography of the Mississippi River and surrounding region. Working through ten state Alliances, the thirty member team has laid a foundation of research, field work, and integration. Project development and management will be discussed along with unifying content themes, details of field sites, emerging ideas for structuring the program, and grant writing plans and sources of funding. Take aways: watershed themes, Mississippi River geography, developing multi-partner projects, professional development strategies.

Molly Brown

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Thinking Geographically about International Issues

Thursday, August 1, 9:00 am - 9:45 am

Adalia Davis, George Ranch High School
In this session we will explore the Choices approach and materials can be used as a springboard to empower learners to ask and answer geographic questions. Participants will receive Choices curricular materials on the U.S. in Afghanistan for classroom use.

Gold Coin

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Computer Lab Session

Thursday, August 1, 9:00 am - 9:45 am

TBD

**Space for this session is limited. Seating available on a first come, first served basis.*

10:00 am

Colorado A

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Geographic Topography: Shaping and Writing Across the Curriculum

Thursday, August 1, 10:00 am - 10:45 am

Steven White, Mississippi Geographic Alliance
Sandra Morgan, Mississippi Geographic Alliance
Participants will be reading, writing, identifying, illustrating and actually shaping various described topographical landforms as featured in specific 'places' of primary and secondary resources. This cross curriculum workshop will show you how to use cross-curriculum texts, stories, novels and other materials to have students be able to think, draw and create actual landforms after having read and analyzed these materials. Elementary, middle and high school educators are encouraged to attend and have fun with this hands on interactive presentation where materials are provided by workshop leaders and you can get some free lesson plans.

Thursday, August 1, 2013 Morning Sessions

Colorado B **Enriching Geography Learning Through Common Core Related Activities**

Thursday, August 1, 10:00 am - 10:45 am
Margaret Legates, Delaware Geographic Alliance
Preston Shockley, Delaware Department of
Education

Common Core is on its way, but don't throw away those trusted lesson plans just yet! Effective geography lessons, units and projects designed for the geography standards can become even stronger through thoughtful additions or adaptations related to the Common Core. Lessons that rely heavily on maps, models and charts can benefit from the addition of informative readings and related literature, writing and speaking activities. Examples of effective integration in lessons for upper elementary and middle school will be shared. Resources for adapting existing lessons or crafting new ones will be provided

Colorado C **"But what if I can't draw, Ms. Webster?" Actively using maps in an AP Human Geography classroom.**

Thursday, August 1, 10:00 am - 10:45 am
Megan Webster, Richardson Independent School
District

This session is meant to provide educators with an opportunity to discuss the role maps play in learning geography. Sketch maps have been used in classrooms as a way to monitor student spatial awareness of the world and play a key role in understanding knowledge and growth. As WebGIS continues to make its way into educational settings, the AP Human Geography classroom can be the perfect environment to spark student interest in the physical and human relationships found on Earth. Learn easy, stress-free ways to get students thinking globally about AP Human Geography while using maps; It's cool, Ms. Webster!

Colorado D **National Geographic Network of Geographic Alliances: Preservice Task Force Meeting**

Thursday, August 1, 10:00 am - 10:45 am
Emily Schell, National Geographic Alliance Network
The Preservice Task Force for the National Geographic Network of Alliances for Geographic Education will meet to share information about preservice education programs and discuss plans for resource development to support educators and students in teacher preparation programs. All are welcome!

MS Colorado G **Paper Session** **Thursday, August 1, 10:00 am - 10:45 am** **Paper 1: MODIS Imagery in the Classroom**

10:00 am - 10:20 am
Paul Baumann, State University of New York
College at Oneonta

MODIS satellite images provide excellent synoptic views of the Earth's surface. These images cover large sections of Earth and deal with various environmental conditions ranging from dust flowing out of Africa into the Americas to fires encroaching on the urban landscape of Southern California. The imagery is easy to download and contains background information about what is being shown. This presentation illustrates how to obtain and use these images to enhance geographic instruction. This presentation is being sponsored by the Remote Sensing Task Force.

Paper 2: 3-D for Teaching: Stereoscopic Visualization in Geography Classrooms

10:20 am - 10:40 am
Peter Anthamatten, University of Colorado Denver
Michael Garcia

As the relevant technology becomes more affordable, stereoscopic 3-D visualization continues to grow in popularity disciplines where spatial reasoning is critical for successful learning. The purpose of this paper session is to briefly discuss the history of scholarship on 3D visualization in university classrooms; demonstrate the technology required to implement stereoscopic 3D; provide examples of curriculum and software that employs 3-D technology, including examples of student work; discuss current efforts at the University of Colorado Denver to collect data on its effectiveness as a teaching tool; and discuss how this technology could feasibly be utilized in participants' own classrooms.

Colorado H **Panel Discussion: Pursuing Grants for Geography Education Research**

Thursday, August 1, 10:00 am - 10:45 am
Susan Hume, Southern Illinois University
Edwardsville

Panelists TBD

Members of this panel include individuals who have submitted grant proposals, received funding for their projects and/or evaluated grant proposals to support geography education research. Topics of discussion include finding funding, writing the narrative, assembling a budget and other supporting materials, and how proposals are evaluated. Attendees are encouraged to share their own experiences and ask panelists questions. This panel is sponsored by the NCGE Research Committee.

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Thursday, August 1, 2013 Morning Sessions

Colorado I

The Arab Spring and the Peace Process Thursday, August 1, 10:00 am - 10:45 am

Dorothy Drummond, Indiana State University
(Retired)

Several trends have become apparent in the two-year old phenomenon known as the Arab Spring, a movement that started in Tunisia and has had repercussions throughout the Middle East. This session identifies those trends and characterizes their impact on the countries involved. It also assesses the relationship of those trends to the Peace Process, a term specific to the long-standing and oft-faltering attempt to resolve the issues dividing Israelis and Palestinians. A map packet will be distributed, and discussion will be encouraged.

Molly Brown

Demonstration of Online Geography Education Materials: K-16

Thursday, August 1, 10:00 am - 10:45 am

Niem Tu Huynh, Association of American Geographers
Michael Solem, Association of American Geographers

The Association of American Geographers (AAG) provides educational materials to support geography learning and teaching at the high school (including AP Human Geography) to introductory college/university levels. The goals of this interactive workshop are to 1) introduce teachers to AAG educational materials, 2) map out how each resource satisfies Geography for Life (2nd Edition) standards, 3) brainstorm with peers on how materials can be used in a geography or related courses. Please bring a laptop.

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Colorado J

Communicating the Importance of Geography Education to Diverse Audiences

Thursday, August 1, 10:00 am - 10:45 am

Rebecca Theobald, Colorado Geographic Alliance
Heather Almquist, Montana Geographic Alliance
Seth Dixon, Rhode Island Geographic Alliance
Roni Jones, California Geographic Alliance
Designed primarily for individuals who work with Geographic Alliances but open to all conference participants, this session focuses on ways to develop, maintain, and improve geography education websites; opportunities for incorporating regular newsletters into communication systems; and various aspects of social media, such as facebook, twitter, and youtube. Several Geographic Alliance Coordinators who have had experience in developing successful tools to reach audiences including teachers, students, and parents will share their approaches and suggest how to avoid common electronic pitfalls. Session participants will have an opportunity to brainstorm about directions for their organizations and to make connections for future references.

All

Gold Coin

Computer Lab Session

Thursday, August 1, 10:00 am - 10:45 am

TBD

**Space for this session is limited. Seating available on a first come, first served basis.*

All*

Friday, August 2, 2013 Meetings and Special Events

Spruce

First Timers' Breakfast

Friday, August 2, 7:00 am - 8:00 am

Allies Grill/Hotel Breakfast Area

Illinois Geography Society Breakfast

Friday, August 2, 7:00 am - 8:00 am

All are welcome!

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Mattie Silks

Journal of Geography Editorial Board Meeting

Friday, August 2, 7:00 am - 8:45 am

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Nat Hill

Remote Sensing Task Force Meeting

Friday, August 2, 7:00 am - 8:00 am

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Friday, August 2, 2013

Morning Sessions

8:00 am

Colorado A Pre-Registered*

AP Human Geography: New approaches to classic models in economic geography

Friday, August 2, 8:00am - 11:45 am

Barbara Hildebrant, ETS

Rick Gindele, Cherry Creek High School, CO

Paul Gray, Russellville High School, AR

Tanya Sharpe, The College Board

This session focuses on classic models in economic geography, including Weber's least cost theory. The presentations will provide a basic foundation for critiquing models of industrial location. Methods used to present the material to students will be included in the presentations. The session presents information that teachers may use to tie together key concepts from the Advanced Placement Human Geography course outline, particularly Industrialization and Economic Development. The session will include a project that can be adapted to economic development on a local scale.

**No charge. Please register online as space is limited.*

Colorado B HS

A Delicate Balance: Geo-History of Wildlands Fire Suppression and Management

Friday, August 2, 8:00am - 8:45 am

Kenneth de Masi, Arizona Geographic Alliance

This workshop session will engage participants in interpreting the geo-history of a century of wildfire suppression, and its implications for understanding crucial issues of forest and prairie stewardship, restoration, and sustainability. It highlights relationships between human activities and an increasing frequency and intensity of uncontrollable wildfires, which threaten air and water quality, wildlife habitat, and the wildland-urban interface. Standards-based lessons using inquiry-based strategies that examine the significance of the ecological role of fire, and how long-term suppression has disrupted the natural fire cycle will be provided. They foster spatial thinking and teach framing questions that compel examination and critical analysis of national policies regarding wildlands management.

Colorado C ES

Two Trains: incorporating geography and history with literature to study the Underground Railroad and the Orphan Train

Friday, August 2, 8:00am - 8:45 am

Kristi Karis, Michigan Geographic Alliance

Journey on a geographic path through history while investigating selected pieces of literature. Literature selections will focus on the Underground Railroad and the Orphan Train. Sample activities will be shared for two historical fiction novels. Emphasis will be placed on using maps/atlasses; primary sources; and questioning related to the Common Core Standards. Sample lessons and materials will be shared with participants.

Colorado D Paper Session

All

Friday, August 2, 8:00 am - 8:45 am

Paper 1: Calling All Wetlands: An Illustrative Online Image Gallery

8:00 am - 8:20 am

Catherine Lockwood, USGS-National Wetlands

Research Center, SeaBlue Technologies

Lawrence Handley,

Nathan Handley

Calling All Wetlands is a citizen science initiative that offers opportunities for informal and formal educators and the community-at-large to collaborate by sharing information and photographs of wetlands. Calling all Wetlands is an interactive and searchable collection of wetland images and corresponding information. The collection provides an image framework of wetlands from across the United States. The collection supports, updates, and adds new images of wetlands provided through crowd sourcing. Civic groups, schools, and college programs and departments are encouraged to organize a group effort or project to collect images and information for addition to the Calling All Wetlands gallery.

Paper 2: Integrating Water Resources Issues into Midwest Regional Geography, with a focus on Iowa.

8:20 am - 8:40 am

Jeremy Brigham, Kirkwood Community College,

Cedar Rapids, Iowa

Nutrients flowing into the rivers in the Mississippi River basin end up in the Gulf of Mexico, causing a "dead zones". Iowa contributes to this "dead zone" because of fertilizers, pesticides and insecticides used on its farmlands. Both rural and urban areas have altered the landscape to produce more runoff, which not only allows more nutrients to flow directly into the waterways but also contributes to catastrophic floods. The paper will look at how this impact on water resources can be integrated into a course on regional geography.

Friday, August 2, 2013

Morning Sessions

Colorado G

Paper Session

Friday, August 2, 8:00 am - 8:45 am

Paper 1: Perceptions of Geography Students in the U.S. and Egypt on Global Issues

8:00 am - 8:20 am

Kay Gandy, Western Kentucky University
Edrees Sultan, Minia University in Egypt
Mid-level geography students at a university in Minia, Egypt and a university in Kentucky in the U.S. were surveyed on their perceptions of global citizenship, cultural diversity, global conflicts, nuclear arms race, and global warming. Results for T-test independent samples showed that for each of the five issues, Egyptian students scored higher than their U.S. counterparts.

Paper 2: Effect of Socioeconomic Status and Rural/Urban Background on Geospatial Skills of Undergraduate Students: An Exploratory Pilot Study

8:20 am - 8:40 am

Kanika Verma, Texas State University
Spatial thinking and learning are essential components of geography education. The National Research Council's 2006 report "Learning to Think Spatially" emphasized that people vary with respect to performance on spatial tasks. Scholars in geography and other disciplines have studied group differences in spatial and geospatial thinking but have mostly focused on sex, age, and K-12 school grade-level. Yet other variables, like ethnicity or socioeconomic status should be explored as well for differences regarding geospatial thinking abilities. Do such variables as parents' annual income, parents' educational attainment, or rural/urban background influence comprehension of geospatial concepts, use of tools of representation, and application of geospatial reasoning processes? This exploratory pilot study follows the Spatial Thinking Ability Test (STAT) endorsed by Association of American Geographers (2006) and published by Lee and Bednarz (2012) to assess the geospatial thinking abilities of undergraduate students at Texas State University.

Colorado H

Sounds Around The World: The Geography Game for a Global Era

Friday, August 2, 8:00am - 8:45 am

Jason Baker, Revolution Rhythm LLC
Sounds Around the World (SAW) is a geography game designed with 21st century thinking for students in an era defined by global hyper-connectivity and economic interdependence. SAW addresses Common Core and National Geographic Standards by integrating world music with specially designed visual information in a collaborative learning-style game. Students learn to locate relative and specific geographic locations by their unique cultural sound; to recognize cultural influences on a region's music; and to successfully make decisions in a team-based learning environment. The presentation will demonstrate SAW's proven ability to engage students' curiosity about their interconnected world through geography.

U Colorado I

Strategies for Gaining More Time To Teach

Friday, August 2, 8:00am - 8:45 am

Ernie Elliott, Elliott Educational Consulting
The typical classroom teacher can forfeit as much as 60 minutes a week of instructional time due to low-level, emergent disruptions in the classroom. These can take place in any classroom, at any educational level. Some powerful strategies exist that, when used consistently, will gain back that valuable time for any teacher. Learn, and take home strategies you can use tomorrow in your classroom to provide more time to teach.

Colorado J

Yellow Ducks Overboard

Friday, August 2, 8:00am - 8:45 am

Paul Nagel, Texas Alliance for Geographic Education
Chucked-chucked-chuck goes the rubber duck machine in China. Rubber ducks and hundreds of other materials manufactured in China cross the Pacific Ocean daily at great risk. In 1992, over 29,000 rubber ducks and other bath toys were tossed into the north Pacific, as a shipping container was lost at sea during a storm. In this interactive session for elementary teachers, learn what happened to the rubber ducks and how to challenge your students to critically think and write about their world.

Molly Brown

Critical Problem Skills in Analyzing Water Supply Options

Friday, August 2, 8:00am - 8:45 am

Richard Earl, Texas State University-San Marcos
Among the general public there is widespread misunderstanding of viable options to short and long term water supply. Garrett Hardin's Filters Against Folly (1984) provides a useful framework for analyzing water supply options. For a water supply option to be viable it must pass all of the following filters: physical science, legal, economic, and social/psychological. Many popular "solutions" such as desalinization and long distance transport are not viable because water is heavy and expensive to transport and that it takes a lot of energy to remove salt from salty water. For many locations, the least expensive options are hindered by social/psychological resistance to conservation and the reuse of treated waste water. Legal commitments and mandates prevent cities from utilizing nearby and less expensive water.

Gold Coin

Computer Lab Session

Friday, August 2, 8:00 am - 8:45 am

TBD

**Space for this session is limited. Seating available on a first come, first served basis.*

All

ES

All

All

All*

Friday, August 2, 2013 Morning Sessions

9:00 am

Colorado B **All**
Mapping Your Classroom
Friday, August 2, 9:00 am - 9:45 am
 Bert Nokes, Mississippi Geographic Alliance
 June Hollis, Mississippi Geographic Alliance
 Sandra Morgan, Mississippi Geographic Alliance
 In this workshop students will have fun as they enhance their map-making skills. The students will be able to make connections between flat maps and their environment/world. They will use maps as geographic tools to acquire, process, and report information.

Colorado C **MS**
Spatial Thinking about Population Data: Writing and Math Activities
Friday, August 2, 9:00 am - 9:45 am
 Carol Gersmehl, Michigan Geographic Alliance
 Martha Mater, Michigan Geographic Alliance
 How has population changed through time in different parts of the world? How do available resources (arable land, available freshwater) relate to population distributions today? Students will visualize population and resource data using manipulatives, maps, and graphs. Through writing activities (designed to meet common core standards), students will make comparisons, describe relationships, and pose questions about regions, transitions, and patterns. Using both raw total and "per" data for continents, regions and countries, students will refine their conclusions and questions.

Colorado G **All**
A Road Map for Geography Education Research
Friday, August 2, 9:00 am - 9:45 am
 Sarah Bednarz, Texas A&M University
 Niem Tu Huynh, Association of American Geographers
 Susan Heffron
 Michael Solem, Association of American Geographers
 The *Road Map for 21st Century Geography Education* released in 2013 recommends guidelines for research in geography education. It proposes a framework of questions to shape an agenda; discusses lines of research that will contribute to advancing knowledge in geography education research; and suggests standards for research methodologies. The purpose of this presentation is to examine the elements of this report and discuss implications for future research. The changing context of geography education makes it more important than ever that the community of scholars interested in the processes of teaching and learning in geography work collaboratively to address significant questions.
Sponsored by the NCGE Research Committee

Colorado D **All**
Paper Session
Friday, August 2, 9:00 am - 9:45 am
Paper 1: Water Resource Use of the White Nile a Potential Conflict

9:00 am - 9:20 am
 Frederick Bein, Karatina University, Karatina, Kenya
 The use of Nile river water resources have been for over five thousand years the privilege of the Egyptian people. Only the Sudan has been able share in the use of this exotic water. While nine other upstream countries, where the water originates, have had little to do with the water. Now that economic development is progressing in those countries, the opportunity to use this water is becoming an issue. The Nile Water Agreement of 1929, orchestrated by the British to provide irrigation water for cotton to be sent to their textile mills, the perceived need for water in the upstream colonies was of little concern. Currently the legitimacy of this colonial artifact is being challenged by Kenya, Tanzania and Ethiopia. To the Egyptians the Nile is their life support system and upstream usage is a threat to their livelihood. For Kenya, the opportunity to expand agriculture in the western provinces would require the use of irrigation water that would otherwise drain to the White Nile.

Paper 2: Colonia Proletaria: An Examination of Underclass life in Piedras Negras, Mexico
9:20 am - 9:40 am
 Kevin Romig, Texas State University-San Marcos
 The US/Mexico border continues to represent exclusion within a broad functional region. While the term, "colonia" has been formalized in South Texas in order to provide funding for increased sanitary infrastructure, shantytowns without sanitation remain common on the Mexican side of the fence. While many in Mexico have access to water, the residents of this colonia lack access to clean water resources in the same ways as the global underclass. This paper examines a colonia proletaria in the border town of Piedras Negras in an attempt to better contextualize economic and cultural forces influencing daily life along the US border in Mexico.

Colorado H **All**
AmericaView: Who we are and what we can do for you

Friday, August 2, 9:00 am - 9:45 am
 Carolyn Ownby, Colorado State University
 AmericaView (www.AmericaView.org) is a nationwide partnership of remote sensing scientists who support the use of Landsat and other public domain remotely sensed satellite data through applied remote sensing research, K-12 and higher STEM education, workforce development, and technology transfer. Our primary goal is to support the many beneficial uses of remote sensing in service to society.

Friday, August 2, 2013 Morning Sessions

Colorado I **All**
Interactive Student/Teacher Panel Discussion
Friday, August 2, 9:00 am - 9:45 am

Organizer: Christine Nichols

Panelist:

Steve Cline

Enrico Contolini

Roger Felch

Sam Richings-Germain

Local elementary through high school teachers have facilitated student projects integrating applied geography, science and geospatial technologies. In this panel, teachers will introduce the design frameworks from which the projects developed, students will present highlights of their work, and discussion among panel members, students and audience members will be encouraged. Projects include 4th grade Biokidz community science event, 9th grader's experiences winning state level and competing at National Geography Bee, high school GIS environmental projects addressing Colorado issues of airport noise and beetle kill.

Colorado J **MS**
How Well Do You Know Your Northern Neighbor, Canada?

Friday, August 2, 9:00 am - 9:45 am

Rania Hammoud, Michigan Geographic Alliance

Canada is a neighboring country and major trading partner with the United States. However, many U.S. students lack knowledge about the history and geography of the second largest country in the world. In this workshop, participants will be introduced to a middle/high school unit on Canada which incorporates geography skills, reading strategies, formative assessments, and technology. Teachers will be given a variety of hands-on, project based activities that will engage students and support diverse learning styles. Upon covering this unit, students will be able to compare and contrast Canada to the United States and also gain a depth of knowledge about Canada's different regions, climate, culture, and economic activity.

Molly Brown **Pre-Registered**
The GeoHistoGram and the Eras of World History

Friday, August 2, 9:00 am - 10:45 am

Cynthia Bloom, Michigan Geographic Alliance

Phil Gersmehl, Michigan Geographic Alliance

Learn how to use the new World GeoHistoGram in the classroom to integrate geography and world history. This visual representation of both time and place helps students make connections between events in different regions that occurred at the same time. Participants will receive a set of GeoHistoGrams (poster and placemats) and a CD with lesson plans.

\$10. Please register online.

Gold Coin **All***
Computer Lab Session
Friday, August 2, 9:00 am - 9:45 am

TBD

**Space for this session is limited. Seating available on a first come, first served basis.*

10:00 am

Colorado B **All**
Geo Steps into the Past/Present
Friday, August 2, 10:00 am - 10:45 am

George Book, LaGEA

The participants will be able to interpret the Five Themes of Geography through a dvd slide presentation. These dvd slides will open the past and use the standards 16 and 17 to create the present. We will discuss each slide as it pertains to the themes. The group will work together as they analyze each slide. The participants will brainstorm the use of these in their curriculum.

Colorado C **All**
Maps Maps Everywhere Maps!
Friday, August 2, 10:00 am - 10:45 am

Therese Van Reenen Clark, Oregon Geographic Alliance

Join in the fun of looking at, using and making maps. Students develop and apply their skills in reading, writing and math by using maps. Students, when using maps, develop the five sets of geographic skills; asking and answering geographic questions, acquiring, organize and analyze geographic information. Maps allow students to use their analytical and inferential skills. Best of all students love looking at, using and making maps. Learning and having a good time, that is great teaching. Please join in the fun and get a taste of the riches maps offer all of us.

Colorado I **Invitation**
Strategic Planning Review Calibration
Friday, August 2, 10:00 am - 10:45 am

Brenda Barr, National Geographic Education

Foundation and Alliance Programs

Bob Dulli, National Geographic Education

Foundation and Alliance Programs

The purpose of this session is to support both Alliance Coordinators in becoming a strategic plan reviewer and to recalibrate those that currently review strategic plans. The strategic planning process of review has been named one of the most valuable professional developments for Alliance Coordinators to improve the quality of the document for their state. This session will review the processes and procedures involved in strategic planning. It will include a hands-on review session and a discussion by the participant of the review teams.

Friday, August 2, 2013 Morning Sessions

Colorado D

Paper Session

Friday, August 2, 10:00 am - 10:45 am

Paper 1: Exploring the Use of Aesthetics in Geography Teacher Education

10:00 am - 10:20 am

Stacey Kerr, University of Georgia

Geographers and geography educators acknowledge the need to take a more progressive approach to both geography education and geography teacher education; one that dispels the teaching practice of rote memorization of locations and facts, and instead incorporates new technologies and critical modes of thinking. Thus, the research project mines the invitations of an aesthetics-based model of education in the understanding of space and place. It explores how selected concepts and theories within geography and aesthetics education may help pre-service teachers develop knowledge of geography and pedagogy.

Paper 2: Elementary Social Studies Teacher Preparation: Course Content Analysis and Survey of Geographic Perceptions

10:20 am - 10:40 am

Patrick Womac, Clemson University

This study aims to determine how teacher educators perceive geographic content and pedagogy in order to better understand the extent to which pre-service elementary teachers are prepared to incorporate geography into social studies instruction. A sample of syllabi from 140 elementary social studies methodology courses were analyzed. This sample represented a variety of institutions (research I, teaching colleges, online) from across the U.S. Next, a sample of teacher educators were given surveys regarding their understanding of and attitude towards the place of geography in elementary social studies. Last, interviews of teacher educators provided robust insight into elementary teacher preparation.

Colorado J

Integrate Geography with Civics and History using the ELA Common Core

Friday, August 2, 10:00 am - 10:45 am

Carol Warren, Arizona Geographic Alliance

Infuse your geography and social studies curriculum with the ELA Common Core Standards. Learn about strategies and lessons that integrate middle grade geography with civics and history content as well as reading and writing. Receive classroom-ready lessons that integrate social studies content with language arts.

All

Colorado G

Paper Session: Emerging Research from the Road Map Reports

Sponsored by the NCGE Research Committee

Friday, August 2, 10:00 am - 10:45 am

Paper 1: Learning progression efforts in geography education: Building a collaboration network with geography, English language arts, math, and science researchers and K-12 educators

10:00 am - 10:20 am

Niem Tu Huynh, Association of American Geographers

Sarah Bednarz, Texas A&M University

Michael Solem, Association of American Geographers

The promise of Learning Progressions (LP) to support student learning is gaining wide acceptance across a range of subject areas. The Road Map for 21st Century Geography Education reports recommend research into learning progressions—and associated teaching progressions—in geography as a way to accelerate geography education. To the authors' knowledge, there is no published LP work in geography education. However, a collection of articles provides foundation for this emerging research trajectory. A working LP template will be shared to initiate discussion on how researchers and educators can work collaboratively to develop a research plan and network for future work.

Paper 2: Instructional materials in geography education: Educative curriculum to support teacher practice and student thinking in geography

10:20 am - 10:40 am

Audrey Mohan, NCGE

Instructional materials are an essential resource in every geography classroom; however, we know little about the effective features of these materials. The Road Map Research report recommends research on the components and characteristics of exemplary curricula in geography while the report on Instructional Materials and Professional Development puts forth four recommendations on the design of instructional materials in geography. This presentation discusses research on curricular design with an emphasis on student thinking and educative curriculum. Using the Road Map recommendations and guidelines, a pilot study of geography instructional materials was conducted in 2013 and results will be discussed.

MS

Gold Coin

Computer Lab Session

Friday, August 2, 10:00 am - 10:45 am

TBD

**Space for this session is limited. Seating available on a first come, first served basis.*

All

All*

Friday, August 2, 2013 Morning Sessions

Colorado H

Paper Session

Friday, August 2, 10:00 am - 10:45 am

Paper 1: Science and Geography: Global Systems Learning

10:00 am - 10:20 am

Ann Rivet, Teachers College Columbia University

Mariana Schmalstig

Traditionally, science and geography have been presented in k-12 as separate, unrelated areas. We feel this is a missed opportunity to leverage deep understandings of global systems, which are central to issues facing society in the 21st century. This session will discuss the significant points of intersection that exist between the 2nd edition Geography for Life standards and the newly-released Next Generation Science Standards around global systems, both for content and practice skills. We explore how these points of intersection provide exciting opportunities for interdisciplinary curriculum projects, and present an early model of a coherent learning experience in this area.

Paper 2: The AMS Education Program: How we are Raising the Scientific Literacy of Thousands of Teachers and Students

10:20 am - 10:40 am

James Brey, American Meteorological Society

The American Meteorological Society (AMS) raises the scientific literacy of K-12 teachers through professional development courses and workshops. DataStreme Atmosphere, Ocean, and Earth's Climate System courses are administered to groups of K-12 teachers by Local Implementation Teams (LITs) positioned throughout the U.S. Project Atmosphere and the Maury Project are two summer residence workshops on the fundamentals of meteorology and oceanography, respectively. The AMS also reaches undergraduate students through AMS Weather, Ocean, and Climate Studies. These introductory, undergraduate-level courses use real-world data to engage students in the geosciences. These courses have already been adopted by more than 730 institutions.

All

Colorado C

Transform Your Classroom into a Geography Lab

Friday, August 2, 11:00 am - 11:45 am

Bert Bower, TCI

Join TCI to discover engaging and meaningful ways you can teach students how to read and analyze various types of thematic maps like vegetation maps--to gather information about the world. You'll be immersed in a TCI lesson that uses whiteboard-like technology, video, stunning images, and the Interactive Student Notebook. You'll leave the session with a clear understanding of how you can use these ideas and resources in your own classroom.

MS

Colorado D

Maps As Primary Sources

Friday, August 2, 11:00 am - 11:45 am

Steve Pierce, North Carolina Geographic Alliance
Ellie Wilson

Standards and curriculum goals often call for students to use primary sources in social studies and other classes. This session will look at maps as primary sources and examples of how students can use analysis of historical maps to better understand the geography and history of a place. Lesson plans and activities will be provided.

All

Colorado G

Geography Education Research Roundtable

Friday, August 2, 11:00 am - 11:45 am

Audrey Mohan, NCGE

The purpose of this roundtable is to bring together individuals proposing or currently conducting research in geography education to discuss their current research, potential collaborations, and future research directions. There will be some invited panelists, but the roundtable is open to all. Essentially, it provides researchers a forum to share current projects and build on one another's work as a research community rather than working in isolation. The recommendations and guidelines from the Road Map Project's recently published Geography Education Research report will inform this open participation discussion. The session is organized by the NCGE Research Committee.

Sponsored by the NCGE Research Committee

All

11:00 am

Colorado B

Operation Yellow Ribbon: Canada and 9/11

Friday, August 2, 11:00 am - 11:45 am

Dennis Rees, Arizona Geographic Alliance

Most students are not aware of Canada's aid to the United States on and after the events of 9/11. Participants will experience a lesson they can use to instruct their students on this topic and how to access the lesson online.

MS

Friday, August 2, 2013 Morning Sessions

Colorado H
GeographyWork We Do with Elementary Preservice Teachers
Friday, August 2, 11:00 am - 11:45 am
 Gwenda Rice, Western Oregon University and the Oregon Geographic Alliance
 Judith Lowery, Western Oregon University
 Shirley Lomax, Western Oregon University
 In this workshop, Elementary methods instructors share a framework for integrating geography in social studies methods courses. They share strategies designed to develop preservice teachers' understanding of geospatial concepts and their cross disciplinary potential. The strategies emphasize and illustrate the importance of integrating geographic literacy across the elementary curriculum. The impact of these strategies on preservice teachers' understanding of geospatial concepts and the importance of geographic literacy is analyzed. Workshop participants will analyze the framework, participate in selected activities, and evaluate geographic literacy gains in those courses.

Colorado I
Paper Session
Friday, August 2, 11:00 am - 11:45 am
Paper 1: Powerful Teaching Methods of Geography
11:00 am - 11:20 am
 Frederick Isele, Western Illinois University
 Supporting Standards-Based Instructional Strategies for Geography, this presentation focuses attention on significant educational paradigms for delivering outstanding teaching and learning experiences in the classroom. From Brophy's "Powerful Methods" to those of the Socratic, Hunter, Johnson & Johnson, Bruner, Tyler, et al., participants will receive multiple handouts and resources for highly effective, standards-based Geographic instruction. Videos/Multiple Handouts/Open Forum
Paper 2: Get Out!: Providing students with experiences in nature through fly-fishing
11:20 am - 11:40 am
 Janeil Rey, State University of New York at Fredonia
 Michael Jabot, State University of New York at Fredonia
 This paper describes a method for linking students to Geography for Life and the important implications this set of standards calls us to. The approach described in the paper describes a community youth fly fishing program developed to reconnect middle level students to their local waterway developing the geographic skills which when applied lead to a sense of stewardship of a local waterway. This after school program links students and mentors weekly to develop the integrated understanding of the this waterway including the collection and analysis of primary geographic data. Examples of curricula used as well as the data collected will be shared.

All **Colorado J** **All**
Paper Session
Friday, August 2, 11:00 am - 11:45 am
Paper 1: Why Physical Geography Matters
11:00 am - 11:20 am
 Harm De Blij, Independent
 Uniquely among the social sciences Geography straddles a human-physical divide that is imprinted on university administrative structures (as in colleges of "natural" versus "social" sciences). In American schools students in the receding past used to get their first exposure to land and climate in their Geography lessons but this dimension faded even there. The consequences range from public misunderstanding of the way the Earth works to political manipulation of environmental decision-making by elected and geographically illiterate) representatives whose ideological imperatives outweigh planetary needs. In every class we teach we should seek ways to reconnect human and natural worlds in practice and principle.
Paper 2: The Geographic Lens: An Imperative Capacity for Citizens in a Deliberative Democracy
11:20 am - 11:40 am

All
 Patrick Womac, Clemson University
 This paper aims to bridge the gap between the fields of geography and education, addressing the lack of interaction between the two spheres. Although geographic education researchers provide eloquent and powerful rationale justifying the importance of the geographic lens, it tends not to be in the language of education researchers. This piece reaffirms that assertion using political philosophy familiar to social studies scholars. Specifically, this theoretical piece champions geographic literacy as a fundamental capacity for citizens to participate meaningfully in society. Applying Rawles, Gutmann, and Macedo, this paper presents geographic education as particularly well-suited for a deliberative democracy.

Molly Brown **All**
That Old Man River
Friday, August 2, 11:00 am - 11:45 am
 June Hollis, Mississippi Geographic Alliance
 Sandra Morgan, Mississippi Geographic Alliance
 Bert Knoles, Mississippi Geographic Alliance
 The importance of the Mississippi River is often overlooked. Look at the history of the river and issues that surround the river today. Presentation will be available on thumb drive.

Gold Coin **All***
Computer Lab Session
Friday, August 2, 11:00 am - 11:45 am
 TBD
**Space for this session is limited. Seating available on a first come, first served basis.*

Friday, August 2, 2013 Keynote Speaker - Ken Jennings



Colorado E-F

All

**Ken Jennings- Author of Maphead & All-time Jeopardy! Champion
Friday, August 2, 12:00 pm - 1:00 pm**

New York Times bestselling author and all-time Jeopardy! champion Ken Jennings was a map nerd from a young age, even sleeping with a bulky Hammond atlas at the side of his pillow, in lieu of the traditional Teddy bear. In his best-selling book, *Maphead: Charting the Wide, Weird World of Geography Wonks*, Mr. Jennings takes us on a journey as he travels the nation meeting others of his tribe—map librarians, publishers, “roadgeeks,” pint-sized National Geographic Bee prodigies, the computer geniuses behind Google Maps and other geo-technologies—the other geographic obsessives. *Maphead* explores how technology and geographic illiteracy are increasingly insulating us from the lay of the land around us and why in the future we are going to be needing geographers more than ever—Mapheads are the ones who always know exactly where they are—and where everything else is as well. Mr. Jennings will give the Keynote address at the 2013 National Conference on Geography Education on Friday August 2, 2013.

Book Signing to follow in the Exhibit Hall (Denver Ballroom) from 1:00 pm - 1:45 pm.

Friday, August 2, 2013 Afternoon Sessions

2:00 pm

Colorado C

MS

**Everything You Wanted to Know About
Russia’s Varied Landscape but Were Afraid to
Ask**

Friday, August 2, 2:00 pm - 2:45 pm

Bert Bower, TCI

Join TCI to discover how you can teach about the physical processes of the Earth in ways that will engage students and help them remember key information. You’ll be immersed in a Social Studies Skill Builder to learn about four major physical processes that shape Earth’s surface by examining diagrams and conducting act-it-outs. Use your knowledge to try to identify which physical processes are pictured in various images and place each image on a large relief map of Russia. You’ll debrief your learning teacher-to-teacher and discover how to implement this strategy and lesson in your classroom.

Colorado A

All

**Unleashing the Geographer Inside: Explore
and Create with National Geographic
Friday, August 2, 2:00 pm - 2:45 pm**

Sean O’Connor, National Geographic Education

Kim Hulse, National Geographic Education

New resources from National Geographic Education, including easy-to-use tools for creating map tours and current event connections bring the interconnected world and its geographic systems to your fingertips. National Geographic has launched new, online interactive mapping tools that let anyone create their own map-based geotours. Come learn the basics of how these tools can be used in classroom settings, by both educators and students. See how these new tools and other map-based content from National Geographic can help educators use maps and other geography content while meeting Common Core State Standards for English language arts.

Colorado B

ES

I can teach it all in one lesson?

Friday, August 2, 2:00 pm - 3:45 pm

Sari Bennett, Maryland Geographic Alliance

Pat Robeson, Maryland Geographic Alliance

Common Core ELA, Science, and Social Studies, how to teach them all? Geography links them together. This session demonstrates a “recipe” for hands-on interdisciplinary classroom instruction. Begin with children’s non-fiction literature. Extract specific domain vocabulary. Then add geography content and skills. Blend with concepts from environmental literacy. Mix with a science demonstration and top it off with civic action. Materials and CD provided.

Friday, August 2, 2013 Afternoon Sessions

Colorado D

MS

Helping Students to Increase Achievement on the AP Human Geography Exam

Friday, August 2, 2:00 pm - 2:45 pm

Harris Payne, Nebraska Dept. of Education

Lonnie Moore, Westside High School

In collaboration with the University of Nebraska at Omaha's Dual Enrollment and Geography departments, eight high schools from four different school districts combined to offer a two hour exam preparation workshop on the UNO campus. This workshop will provide materials that include:

1. The goals of the workshop
2. Planning guides to prepare for the workshop
3. Descriptions of the three sessions at the workshop
4. Examples of materials given to students that were used both at the workshop and given so students could continue to prepare after the workshop
5. Funding sources used for the workshop
6. Survey assessment of the workshop

In addition, insights into student perceptions of the day from the student surveys will be discussed.

Colorado G

All

Adapting the Road Map Assessment Report for Classroom Teachers

Friday, August 2, 2:00 pm - 2:45 pm

Jill Wertheim, National Geographic Society

The 2013 Road Map for 21st Century Geography Education Assessment Report charts a course for creating a new generation of high-quality geography assessments. Although the report primarily targets district, state, and national-level framework design teams, we acknowledge that teachers often need to create their own assessments to monitor their students' learning. In this session we will present a process adapted from the Road Map report specifically for teachers: A Teacher's Guide to Creating 21st Century Geography Assessments. An overview of the guide will be followed by group activities in which participants engage with key parts of this assessment development process.

Gold Coin

All*

Computer Lab Session

Friday, August 2, 2:00 pm - 2:45 pm

TBD

**Space for this session is limited. Seating available on a first come, first served basis.*

Colorado H

U

Paper Session

Friday, August 2, 2:00 pm - 2:45 pm

Paper 1: Bringing Cancer Prevention into Geography Undergraduate Courses

2:00 pm - 2:20 pm

Lawrence Estaville, Texas State University-San Marcos

The U.S. has 20 million university and college students, mostly 18 to 24-year-olds, who know little about cancer prevention. These students are traversing an important period in their lives in which behavioral intervention is critical in reducing their risk of cancer in later years. Among the many challenges in providing cancer education to college students is overcoming communication barriers and bringing cancer prevention into their classrooms. Courses in many degree programs can easily include cancer prevention into their curricula to reach thousands of students. This session offers insights and strategies about bringing cancer prevention into Geography undergraduate classrooms.

Colorado I

All

Paper Session

Friday, August 2, 2:00 pm - 2:45 pm

Paper 1: Combating the Orientalist mental map of students, one geographic imagination at a time

2:00 pm - 2:20 pm

Katrinka Somdahl-Sands, Rowan University/

Many students enter classes with a very Orientalist mental map of the region usually called "the Middle East." The subject of this talk is the pedagogy tool I used to deconstruct that biased map. . I have the students build a blog specifically looking at the media interpretation of a particular event, in the example at the end of the paper the blog was about the violence that occurred in Gaza in 2008. In particular, I will argue that the blog project was able to change the geographic imagination of the individuals in the class.

Paper 2: Learning to think (Geo)spatially through geography games

2:20 pm - 2:40 pm

Niem Tu Huynh, Association of American Geographers

Kanika Verma, Texas State University-San Marcos

Matthew T. Patton, Texas State University-San Marcos

Nick Stamper, James Bowie High School, Austin, TX Games offer a way for students to learn through repetition and hands-on practice. This study presents research findings that suggest students improve, through games, in three geospatial skills: 1) geospatial vocabulary, 2) latitude and longitude extraction from UTM coordinate system, and 3) map projection by estimating shortest distance between cities. This research examines the explicit intervention of games as a way to support student learning of geographic concepts and skills. The research design includes a mixed approach with qualitative and quantitative data.

Friday, August 2, 2013 Afternoon Sessions

Colorado J

Curriculum for a Crowded World: The First Year Seminar, A High Impact Learning Experience

Friday, August 2, 2:00 pm - 2:45 pm

Sarah Bednarz, Texas A&M University

Robert S. Bednarz

High impact learning experiences like first year seminars are crucial in retaining college students and ensuring their academic achievement. They are also effective ways to introduce the practices of geography. This workshop explores principles and strategies essential to a first year or introductory seminar in geography. The discussions draw from our experiences and allow participants to apply these to their own contexts. Themes for seminars, special audiences, significant learning outcomes, and assessment methods are discussed.

Molly Brown

Using Web GIS to Support Geospatial Thinking and Reasoning

Friday, August 2, 2:00 pm - 2:45 pm

Alec Bodzin, Lehigh University

Educators have recognized that geographic information systems (GIS) have the capacity to promote spatial thinking by: a) enabling powerful, multidisciplinary visualization, analysis, and synthesis of data, b) expanding student understandings of Earth and environmental science, and c) enhancing inquiry teaching and learning. This session presents Earth and environmental curriculum that promotes geospatial thinking and reasoning with Web GIS visualizations and analysis tools using a customized interface designed for middle school students and teachers. The presentation illustrates how teachers have successfully implemented Web GIS investigations to ensure that learners develop geospatial thinking and reasoning skills related to Earth and environmental issues.

3:00 pm

Colorado A

Physical Overview of South America from Land & Space

Friday, August 2, 3:00 pm - 3:45 pm

Judy Lucas, Houston Education Space Team, Inc.

If you need an introductory lesson for students on South America showing all of the exceptional physical features that have been created, this is for you. South America has an interesting and unusual history of development. From space, those features come alive. The connection between physical processes, biomes, and spatial organization on Earth are displayed in the beautiful photography taken by astronauts and the ISS digital camera. This presentation will demonstrate how these images can be used to make that connection between the physical and the cultural landscape. Participants will do an activity and receive a CD with all materials.

U

Colorado C

Spatial Thinking at the Local Scale: Using Local Examples in the AP Human Geography and World Geography Classrooms

Friday, August 2, 3:00 pm - 3:45 pm

Phillip Hare, A.C. Flora High School, Columbia, S.C.

Use the local scale in APHG to introduce geographic inquiry and fieldwork, and basic GIS. Answering questions like "Where is the best burger in my city?" and "How many students are in each classroom during first period?" gives 9th grade APHG students familiar topics to grasp onto while they learn the basic geographic skills necessary for success. Create maps using paper and pencil, and Google Earth to introduce cartographic techniques and compare geographer's tools both new and old. Use these same geographic inquiry projects to begin FRQ training for the AP test. Walk away with two complete lesson plans for Unit 1.

HS

All

Using Web GIS to Support Geospatial Thinking and Reasoning

Friday, August 2, 2:00 pm - 2:45 pm

Alec Bodzin, Lehigh University

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Colorado D

Curriculum for a Crowded World

Friday, August 2, 3:00 pm - 3:45 pm

Bill Baird, Population Connection

As the world population grows to 9 billion by mid-century, it will be vital for students to understand the fundamentals of human geography. In this workshop, discover innovative, hands-on/minds-on activities that examine population trends, natural resource use and distribution, and the human condition around the globe. Engage in simulations, games and cooperative learning challenges that stimulate critical thinking and problem-solving skills. Receive a CD-ROM of activities linked to state, national and Common Core standards.

HS

Colorado G

Moving Toward More Effective Professional Development and Instructional Materials in Geography

Friday, August 2, 3:00 pm - 3:45 pm

Emily Schell, National Geographic Society

Audrey Mohan, NCGE

The Road Map for 21st Century Geography Education's Report on Instructional Materials and Professional Development puts forth recommendations for the design of materials and professional development in geography education. This interactive session explores a selection of recommendations and guidelines from the report. The session will start with a brief introduction to the report, and then the audience will be split into small groups to explore and discuss 1-2 recommendations more closely. The session will conclude with a whole group discussion on next steps to implement the recommendations into practice.

All

HS

Physical Overview of South America from Land & Space

Friday, August 2, 3:00 pm - 3:45 pm

Judy Lucas, Houston Education Space Team, Inc.

If you need an introductory lesson for students on South America showing all of the exceptional physical features that have been created, this is for you. South America has an interesting and unusual history of development. From space, those features come alive. The connection between physical processes, biomes, and spatial organization on Earth are displayed in the beautiful photography taken by astronauts and the ISS digital camera. This presentation will demonstrate how these images can be used to make that connection between the physical and the cultural landscape. Participants will do an activity and receive a CD with all materials.

Friday, August 2, 2013 Afternoon Sessions

Colorado I

GeoCapabilities: An International Framework for Teacher Preparation and Curriculum Making Friday, August 2, 3:00 pm - 3:45 pm

Michael Solem, Association of American Geographers

This workshop will introduce the capabilities approach to teacher preparation and curriculum making in geography. Drawing on collaborative research between the AAG the Institute of Education in London and the University of Helsinki the workshop will present a set of educational aims known as capabilities that bridge differences in the national standards of the U.S. Finland, and England to provide a common ground for collaborations in geography education. Participants will review research findings and apply them to create geography resources that support the development of human capabilities at the international scale.

Colorado J

Teaching About the Erie Canal: Aligning Geography with the Common Core Friday, August 2, 3:00 pm - 3:45 pm

Timothy McDonnell, New York Geographic Alliance
Carol Gersmehl

The New York Geographic Alliance is creating modules that help teachers to include geography in their classrooms, while still meeting the Common Core Standards. Our first module is on the Erie Canal, and it is designed especially for Grade 4, but it can be used in middle school too. In this workshop, we will demonstrate two of the NYGA lessons that use ELA and Math while we study the geography of New York State. Our method should be applicable to other geographic topics.

Molly Brown

Paper Session

Friday, August 2, 3:00 pm - 3:45 pm

Paper 1: Pity the Poor Python? Present State of Biogeographical Invasion in South Florida 3:00 pm - 3:20 pm

Jerry Holt, Florida A&M University

On January 17, 2012, Secretary of the Interior Ken Salazar announced a ban on the importation and interstate transportation of four nonnative constrictors considered to be injurious to the native ecosystems of south Florida. The most prevalent is the Burmese python (*P. molurus bivittatus*), which has already established breeding populations in the Everglades and surrounding areas. This presentation considers the habitat distribution of the Burmese and other ophidians, as well as efforts to curb the spread of these invasive species. As with all invaders, these species threaten the established animal populations of this area.

All

ES

All

Colorado H

Paper Session

Friday, August 2, 3:00 pm - 3:45 pm

Paper 1: Teaching Human Geography with Sports Examples

3:00 pm - 3:20 pm

Heike Alberts, University of Wisconsin Oshkosh
Sports can provide one way of piquing students' interest in topics typically covered in human geography classes. In this talk, I will present teaching ideas for three different areas of human geography: First, I will demonstrate how the analysis of sports teams can stimulate discussions about migration and citizenship policies. Second, I will provide examples of how planning for Olympic Games can be used to introduce a range of topics in urban and economic geography. Third, I will show how the use of sports events in mediating or inciting conflicts can add to classes in political geography.

Paper 2: Deep Roots: Carving Out a Sense of Place in the Hegemony of the Common Core

3:20 pm - 3:40 pm

Janeil Rey, State University of New York at Fredonia
Michael Jabot, State University of New York at Fredonia

This paper provides an overview of an inter-disciplinary curriculum integrating the content areas of science, social studies, English and visual arts along with spatial reasoning. Fly-fishing is used a thematic hook to engage students in the study of their local waterway, specifically: understanding the watershed; identifying local plants and animals and their impact on the fishery; tracing the historical, economic, and social effects of the bodies of water in their community; reading and analyzing fictional and expository texts. Examples of how this work brings together the standards presented in Geography for Life with both the Common Cores in Language Arts as well as the Next Generation Science Standards.

Gold Coin

Computer Lab Session

Friday, August 2, 3:00 pm - 3:45 pm

TBD

**Space for this session is limited. Seating available on a first come, first served basis.*

All

All*

Friday, August 2, 2013 Afternoon Sessions

4:00 pm

Colorado A **MS**

**Designs from the American Southwest
Friday, August 2, 4:00 pm - 4:45 pm**

Pamela Hetzell, Scott County Schools, Kentucky
Set against a backdrop of sagebrush, jackrabbits and a mystical flute player, the ancestral Pueblo of the southwest painted beautiful designs on the pottery they created. This workshop blends National Geography Standards 10 and 17 with the National Standards for the Arts, Visual Art: Standard 4. Join us in a lesson that involves student interpretation/duplication of some of those designs. Come dressed to paint!

Colorado B **HS**
**Standards? Assessment? Data?: Making
Standards-Based Assessments and Data
Collection Work For You**

Friday, August 2, 4:00 pm - 4:45 pm

Allison Hunt, duPont Manual High School, Louisville, KY

Tom Wurst, Texas Alliance for Geographic Education
Participants will explore real classroom examples of data collection and analysis with both practical examples and non-examples. In small groups, participants will reflect and discuss how standards-based curriculum, instruction, and assessment currently works or could work in their classroom. Case studies/examples from Texas (a non-Common Core state) and Kentucky (a Common Core state) will be used. In addition, research about standards-based learning will be briefly outlined.

Colorado C **ES**
The Armadillo from Amarillo, Mapping Activity

Friday, August 2, 4:00 pm - 4:45 pm

Patti Edwards, Mississippi Geographic Alliance
After reading the book, *The Armadillo from Amarillo*, participants will be able to explain the difference between city, state, county, continent, world and planet. This will be done by making a visual aid to show the relationship between these terms.

Colorado D **HS**
Teaching AP Human Geography to 9th Graders

Friday, August 2, 4:00 pm - 4:45 pm

Dorothy Cassetta, Carroll High School, Southlake, TX, Texas Alliance for Geographic Education
Sharon Shelerud, Metcalfe Junior High School
Burnsville, MN, MAGE

Unlike most AP courses, a significant number of AP Human Geography students are 9th graders. This workshop will provide strategies for working with young students in a college level course, including preparation for the AP Human Geography exam. Topics included will be mastering multiple choice questions, writing the FRQ, and developing regional geography skills. Both presenters are AP Human Geography readers and have over 10 years of success with 9th graders in AP Human Geography.

Colorado G **All**

**How Would You Help Students Become
"Geospatially-informed" Citizens?**

Friday, August 2, 4:00 pm - 4:45 pm

Diana Sinton, University of Redlands

Being a geospatially literate person can mean that you know how geography affects the issues and situations in your daily life, your society, and the world around you. In this presentation, you will learn about SPACIT (www.spatialcitizenship.org), a program in Europe that is designing a new curriculum for secondary school teachers to help their students become Spatial Citizens. NCGE has partnered with SPACIT to design this program, and we are interested in your input and ideas as well.

Colorado I **All**
**Family Geography Night: Your Students Will
Love It!**

Friday, August 2, 4:00 pm - 4:45 pm

Nancy Hunt, Oregon Geographic Alliance

Are you looking for a way to involve families in learning about geography? Do you want an event that will bring families to your school for educational fun? Family Geography Night is the answer! This session will feature planning strategies, activity ideas, and resources for holding a successful Family Geography Night. The presenter has held several successful Geography Nights at her school, and is a co-author of the FGN Manual available from the Oregon Geographic Alliance.

Colorado H **All**
Paper Session

Friday, August 2, 4:00 pm - 4:45 pm

**Paper 1: Individualizing Geographic
Instruction**

4:00 pm - 4:20 pm

Frederick Isele, Western Illinois University

From applications of Hilda Taba's Individualized Educational Programs" to those of SRA Kits to Howard Gardner's "Multiple Intelligences" et al., this presentation will feature highly effective instructional approaches for meeting the unique needs of every Geographic learner. Sharing Power-Point presentations and multiple handouts, this session will give participants an array of academic tools for effectively meeting Individualized Geographic Instruction requirements. Videos/Multiple Handouts/Open Forum.

**Paper 2: Strategies for Developing English
Language Learners' Geography Vocabulary**

4:20 pm - 4:40 pm

Margarita Jimenez-Silva, Arizona State University

This paper presentation will provide practical and research-based strategies for developing key geography vocabulary when working with English language learners at various English proficiency levels. Vocabulary cards, the use of cognates, and songs are some of the strategies that will be discussed. Participants will be given various resources to take home.

Friday, August 2, 2013 Afternoon Sessions

<p>Colorado J Collaborating on Publications: Experiences of Graduate Students and Early Career Researchers Friday, August 2, 4:00 pm - 4:45 pm Organizer: Michael Scholz, Texas State University Panelists: Carmen Brysch, Texas State University-San Marcos Jerry Mitchell, University of South Carolina and editor of the Journal of Geography Niem Tu Huynh, Association of American Geographers Peter Anthamatten, University of Colorado-Denver Research collaborations provide many benefits to participants. Combining researchers' different specialties, as well as their unique abilities, results in a rich contribution to research projects. Collaborations also provide graduate students the opportunity to learn new skills and perspectives from one another. In addition, graduate students gain experience working on a team which is beneficial to them in the future whether working on committees in academia, or on government or private sector projects. Participants will share their experiences in collaborative research and publications, and how these enhance career development for students, faculty, and all those involved in research projects.</p>	<p>All</p>	<p>Molly Brown Charting the Unknown: Infusing the Common Core Standards in Geography Curriculum Friday, August 2, 4:00 pm - 4:45 pm Shannon Leontiades, Nancy Dean, University of Florida Jennifer Cheveallier, University of Florida "I have to teach what?" is often the response from high school teachers of geography when told that they must now teach the Common Core Standards, even in highly rigorous Advanced Placement courses. Most secondary teachers of geography, especially those who teach AP Human Geography, already require students to read, write, analyze/discuss spatial data, and think critically—all skills embedded in the Common Core Standards. This panel discussion will provide suggestions for how to best meet these standards without drastically changing what you are already doing in your classroom. Based on a project funded through the National Literacy Project and the Florida Academic Literacy Council, the presenters will highlight sample cross-curricular units of study from World Cultural Geography and AP Human Geography courses, providing lessons learned and advice for teachers struggling to meet these new demands.</p>	<p>HS</p>
<p>Gold Coin Computer Lab Session Friday, August 2, 4:00 pm - 4:45 pm TBD <i>*Space for this session is limited. Seating available on a first come, first served basis.</i></p>	<p>All*</p>		

Saturday, August 3, 2013 Meetings and Special Events

<p>Nat Hill Gamma Theta Upsilon Executive Committee Meeting Saturday, August 3, 7:00 am - 8:00 am</p>	<p>I</p>	<p>Colorado E/F NCGE Awards Ceremony Saturday, August 3, 5:00 pm - 6:00 pm</p>	<p>All</p>
<p>Mattie Silks The Geography Teacher Editorial Board Meeting Saturday, August 3, 7:00 am - 8:45 am</p>	<p>I</p>	<p>Foyer NCGE Cocktail Hour Saturday, August 3, 6:00 pm - 7:00 pm</p>	<p>All</p>
<p>Mattie Silks NCGE Business Meeting Meeting Saturday, August 3, 4:00 pm - 4:45 pm</p>	<p>All</p>	<p>Colorado E/F NCGE Dinner Saturday, August 3, 7:00 pm - 9:00 pm</p>	<p>All</p>

Saturday, August 3, 2013

Morning Sessions

8:00 am

Colorado A **Pre-Registered**
AP Human Geography: Evolution of contemporary geopolitical patterns

Saturday, August 3, 8:00 am - 11:45 am

Barbara Hildebrant, ETS

Kenneth Keller, Danbury High School, CT

Liliana Monk, Walter Johnson High School, MD

Don Zeigler, Old Dominion University, VA

Tanya Sharpe, The College Board

This session focuses on the different forces that shaped the evolution of the contemporary world political map. The session will examine the changes and challenges to political-territorial arrangements and the changing nature of sovereignty. Methods to present the material to students will be included in the presentations. The session presents information that teachers may use to tie together key concepts from the Advanced Placement Human Geography course outline, particularly Political Organization of Space.

No Charge: Please register online as space is limited.

Colorado B **MS**
Literacy Strategies and Learning Practices in Middle School Geography Classrooms

Saturday, August 3, 8:00 am - 8:45 am

Peggy Altoff, Colorado Geographic Alliance

Cause/effect, compare/contrast, and problem-solving skills are emphasized in Core ELA standards and are applicable in geography instruction. Explore active learning strategies and practices used to teach them in middle school geography classrooms.

Colorado C **MS**
Squeeze In! Teaching about Population Density in Japan

Saturday, August 3, 8:00 am - 8:45 am

Bert Bower, TCI

Join TCI to discover a fun and engaging way to teach students about the effects of population density. You'll be immersed in an Experiential Exercise and use your body and varying amounts of floor space to simulate the population densities of Australia, the United States, and Japan. Afterwards, you'll debrief your experience teacher-to-teacher with your TCI presenter and discover how you can implement this strategy and lesson in your classroom.

Colorado D
Paper Session

All

Saturday, August 3, 8:00 am - 8:45 am

Paper 1: Finding Geography in Colorado's New P-12 Social Studies Standards

8:00 am - 8:20 am

James Dunn, University of Northern Colorado

Colorado has new education standards. Geography is woven into the Social Studies standards for P-7, but with varying appearances. No longer a stand alone subject, it is important to find the geography within its current presentation, and then find a way to share that with teachers. This may be a model for other states that revise their standards and choose not to use the subject matter as a highlighted discipline. Limiting geography in P-12 has implications for students who study geography at the college level.

Paper 2: Place-based School Leadership

8:20 am - 8:40 am

Janeil Rey, State University of New York at Fredonia

This paper explores the role of school principals and superintendents in building a culture of respecting the local in their schools. It focuses on how school leaders can support teachers in place-based education that engages students in critically examining their community and using local geography as a springboard for understanding global concepts of land and natural resource use, economics, and historical periods. Increased centralized, federal control of education is examined, specifically investigating how place-based education can align with national standards enshrined in the Common Core. The role of the school leader as both local booster and critical analyst is examined.

Colorado G **HS**
Geography: There's and App for That

Saturday, August 3, 8:00 am - 8:45 am

Adalia Davis, Lamar CISD

Participants will explore ways that mobile learning devices such as smartphones, iPods, and tablets can be incorporated into the geography classroom. There's a world of apps that can be used to improve spatial and data analysis skills as well as those that allow students to create and collaborate. In addition to sharing cool apps for geography the session focus on effective classroom management strategies that will save your sanity.

Saturday, August 3, 2013 Morning Sessions

Colorado H

Paper Session

Saturday, August 3, 8:00 am - 8:45 am

Paper 1: Andragogy and introductory GIS training; experiences with a hybridized, web-based training model for adult learners.

8:00 am - 8:20 am

Raymond Carr, New Mexico State University
Geographic information systems (GIS) are rapidly evolving technologies that have been attracting the interest of community organizations interested in geographic data. Many have a desire to learn how to make maps and use GIS to communicate geographic information, but resource constraints limit the formal study the discipline. I have been investigating blending the ESRI's online GIS trainings with professional facilitation to train adult learners from local institutional and non-profit community organizations, and other adult learners to use GIS. This hybrid approach exposes adult learners to the convenience of web-based GIS education, with the support of face-to-face guidance.

Paper 2: The Impacts of GIS on Motivation and Achievement in Geography: A Study Among Form Four Students of Smart School in Sabah, Malaysia

8:20 am - 8:40 am

Soon Singh, Bikar Singh, Macquarie University
The integration of GIS in geography education in Malaysia is still being regarded as a myth with the reasons of lack of ICT facilities and no any empirical study have shown the beneficial of integrating GIS in geography education. This research applies mixed methods empirically investigates the impact GIS integrated lesson on underachieving students' achievement and motivation in Smart School which is well known for being the most sophisticated and equipped with ICT facilities in the country. The data gathered verified the analysis that the academic achievement and motivation of students who used GIS were statistically higher than the control group.

Colorado I

The US GeoHistoGram: Common Core Lessons for US History

Saturday, August 3, 8:00 am - 8:45 am

Phil Gersmehl, Michigan Geographic Alliance

In this workshop for American history teachers, participants will see how the new US GeoHistoGram poster was designed and can be used to support a wide variety of lessons. Student activities include American Presidents, black migrations, game-changing inventions, industrialization, influential novels, and many other topics. Participants receive a wall poster, sample activities, and explanatory powerpoint.

Gold Coin

Computer Lab Session

Saturday, August 3, 8:00 am - 8:45 am

TBD

**Space for this session is limited. Seating available on a first come, first served basis.*

All

Colorado J

Paper Session: Korea in the Classroom and in the News

Session Chair: Debra Troxell, West Forsyth High School, Clemmons, NC

Saturday, August 3, 8:00 am - 9:45 am

Paper 1: The Korean Peninsula

8:00 am - 8:20 am

Harm De Blij, Michigan State University
Location and geopolitical characteristics present the Korean Peninsula with a unique role in East Asia and in the foreign policies of other countries in the region. This presentation will examine the two countries, South and North Korea, and the geopolitical issues they are facing and others they may face during the next decade, and the possible consequences for other countries in the East Asian region as well as for the United States.

Paper 2: Including the Korean Peninsula within APHG

8:20 am - 8:40 am

Susan Hollier, The Woodlands High School, The Woodlands, TX

The Korean Peninsula is one of the important global geopolitical, economic, and strategic hotspots. Its location, bi-national nature of the peninsula, tensions between political systems, and economic contrasts make it a place that can be studied from several different viewpoints in the APHG class. This presentation will focus on the opportunities to incorporate the Korea and materials that are available for inclusion within APHG.

Paper 3: Teacher Field Study in South Korea as Professional Development

8:40 am - 9:00 am

Kenneth Keller, Danbury High School, Danbury, CT
Getting into the field to observe landscapes, interview people, and build a portfolio of first hand materials for classroom instruction is a powerful means to build an instructional program. International field studies are especially important to the geography teacher. This session will focus on ways that teaching is enhanced by participation in the annual Northeast Asian History Foundation sponsored geography conference and field study experience to South Korea.

Paper 4: A New Approach for Map Lesson for Elementary Students in the Self-directed, Motivated, Adaptive, Resource free, Technology-embedded (SMART) Learning Environment

9:00 am - 9:20 am

Okkyong Yoon, Cheongju National University of Education

This study proposes a new approach for map lesson in the elementary school curriculum. New collaborative map lessons are designed to help students understand principles in the mapmaking process and complete their own community maps using modern technology such as GPS and smartphone. Upon the completion of the lessons, students will be able to understand how to create 2D maps in 3D world and to learn a sense of place about where they frequently visit or have a special memory. Additionally, these programs can motivate students further to involve activities beyond map lessons and to have interests in community environment.

Discussion, 9:20 am - 9:45 am

All

Saturday, August 3, 2013

Morning Sessions

Molly Brown
Paper Session

Saturday, August 3, 8:00 am - 8:45 am

Paper 1: Does Cell Phone Tracking Services Make Your Children Safer or in More Danger?
8:00 am - 8:20 am

Ruojing Scholz, Texas State University-San Marcos
Michael Scholz, Texas State University-San Marcos
The use of tracking services in smart phones enables personal location information being recorded at cell phone companies or other sectors over certain period of time. Many users are not aware that daily travel and activity regularities can be identified from these data, which makes the tracking service users vulnerable to privacy invasion, and in some cases, stalking. Thus, it becomes necessary to raise public awareness of this issue. This study examines the differences in perceptions on using tracking services on cell phones before and after an informative in-class lecture on the subject. The role of education in change of human behavior can be evaluated from the results.

Paper 2: Rethinking Classroom Space: Student Habits, Preferences and Performance
8:20 am - 8:40 am

Sandy Ramage, Southern Illinois University Edwardsville

What role does seat location play in student engagement and learning? This study focuses on seat preference, technology usage, social activities, and learning perceptions within a college classroom. This paper reports results from a study conducted in two introductory geography classes of 104 students at a regional public university. Results show that students who sit in front believe their seat location can help them learn better, whereas students who sit in back perceive their classroom seat to be less influential in terms of academic performance. Ultimately, this study expands upon and updates existing literature about classroom seating and student performance.

9:00 am

Colorado B
Physical Processes, Land Features and Space Photography

Saturday, August 3, 9:00 am - 9:45 am

Judy Lucas, Houston Education Space Team, Inc.
This presentation is designed for teachers and students. Many teachers see themselves as weak in physical geography and know little about the space photographs. If so, this is for you! The connection between physical processes, landforms, biomes, and spatial organization on Earth are displayed in the beautiful photography taken by astronauts and the ISS digital camera. This presentation will demonstrate how these images can be used to make that connection between the physical and the cultural landscape. Participants will do an activity and receive a CD with all materials.

All **Colorado C**
Ming Dynasty, Kazakh Oil, and other Common Core Geography/History Lessons

Saturday, August 3, 9:00 am - 9:45 am

Phil Gersmehl, Michigan Geographic Alliance
This workshop includes a brief review of the research base that supports the Common Core writing and math objectives. Geography's potential contribution will be illustrated by several packages of student activities that meet Common Core objectives and fill critical gaps. Depending on group interest, these lessons will include the Fall of the Mighty Ming, Getting Oil Out of Kazakhstan, and other GeoHistoGram history/geography lessons. Participants will get classroom-ready activities, a research summary, and electronic presentations.

Colorado D
Secrets of NatGeoEd.org

Saturday, August 3, 9:00 am - 9:45 am

Sean O'Connor, National Geographic Education
Explore National Geographic Education's award-winning website with experts from National Geographic. We designed NatGeoEd.org with you in mind, and filled it with our iconic video and photographs, interactive maps, and standards-based activity and lesson plans. Best of all, we made everything FREE. Attend this session to find out about NatGeoEd.org's best-kept geography secrets, and the best tips and tricks to help you find exactly what you're looking for!

Colorado G
Paper Session

Saturday, August 3, 9:00 am - 9:45 am

Paper 1: The Syrian after the end game "consensus activity"

9:00 am - 9:20 am

Robert McClure, St. Olaf College
The paper will engage participants in a two-class period exercise I use in a college level human geography centering on the future of Syria. Resources and procedures will be shared so that participants can implement this learning activity in their own classrooms. Critical thinking is emphasized. Implications for use in secondary classrooms will also be discussed.

Paper 2: Non-Self-Governance in the Modern World

9:20 am - 9:40 am

Jerry Holt, Florida A&M University
This presentation reviews the status of non-self-governing territories that remain within the world political system. These include significant areas such as Greenland, the largest in area, and Puerto Rico, the largest in population. An examination of these territories in terms of their status in the contemporary world is warranted, especially in the light of independence movements and resource control. The presentation will also describe the primary associational patterns of these territories. Although not as obvious as in the past, non-self-governance in the modern world continues to be an issue of concern to geographers and others.

Saturday, August 3, 2013

Morning Sessions

Colorado H

Paper Session

Saturday, August 3, 9:00 am - 9:45 am

Paper 1: You've Got Geography in My Science 9:00 am - 9:20 am

Michael DeMers, New Mexico State University

As stand-alone K-12 geography classes continue to diminish in our nation's schools it often becomes necessary to use subversive strategies to teach the principles of geography in non-geography classes. There are abundant examples of this for human geography in courses like social studies, civics, history and other social science classes but perhaps fewer are obvious in science classes. This talk makes some of those connections explicit and demonstrates how geographic principles can be taught in science classes. Finally, using the National Geographic Society's connections model, it illustrates how Common Core standards can be achieved by making these connections.

Paper 2: Working with teachers to enhance math and science education by incorporating geospatial techniques and knowledge

9:20 am - 9:40 am

X. Chen, Salisbury University

Daniel Harris

Geospatial techniques and knowledge are increasingly useful in helping math and science teachers in designing real-world relevant hands-on learning modules. This paper provides examples on how GIS, GPS, remote sensing, and maps are incorporated into science and math curricula. Specifically, it discusses how GIS, GPS, and remote sensing images and geographic maps are used in improving students' understanding of statistical graphs, geometric probability, and the global environmental impact of e-waste.

Gold Coin

Computer Lab Session

Saturday, August 3, 9:00 am - 9:45 am

TBD

**Space for this session is limited. Seating available on a first come, first served basis.*

All

Molly Brown

Paper Session

Saturday, August 3, 9:00 am - 9:45 am

Paper 1: Transitioning to an online, learner-centered teaching model in geography education.

Michael Ritter, University of Wisconsin-Stevens Point

9:00 am - 9:20 am

This presentation describes the transition of the Geography of Wisconsin from a passive, teacher-centered course to an online learner-centered one. A learner-centered model changes the role of the instructor, the responsibility of the student, and the process of assessment. The online learner-centered format allows flexible scheduling of work while learning and applying critical thinking skills applicable beyond the course. Students take increasing control over course content through the semester. The course learning outcomes are assessed with reading summary, Pause & Reflect papers, news discussions, community case study, and self-guided field trip assignments. The impact on student learning and instructor workload will be discussed.

Paper 2: An evaluation of the role and success of online education in undergraduate courses

9:20 am - 9:40 am

Rachel Berndtson, University of Maryland

Alyssa Whitcraft, University of Maryland

Research universities are incorporating online teaching tools into their regular undergraduate curricula. At the University of Maryland, Department of Geographical Sciences, several courses have already been adapted to an online setting. In an effort to evaluate the successes and shortcomings of online education with respect to student experience, learning outcomes, and faculty experience, as well as to better understand the role of online education in DoGS undergraduate courses present and future, we have engaged multiple stakeholders via survey. Preliminary findings elucidate both the value of online tools as well as the value of in-person engagement with experts in enhancing classroom experience for all.

All*

10:00 am

Colorado B

ES

Forest Fires, Recycling, and Natural Disasters: Integration of Geography and Civics in the Elementary Classroom

Saturday, August 3, 10:00 am - 10:45 am

Cheryl Wiens, Arizona Geographic Alliance

Elementary teachers know that integration gives them added value for their limited Social Studies instruction time. This session will highlight three K-5 lessons which integrate geography and civics, written by two teacher consultants for the Teaching Foundations Grant, a joint effort of Arizona Geographic Alliance and Arizona State University's Mary Lou Fulton Teachers College. Come away with classroom ready lessons which also align to Common Core ELA Standards.

Saturday, August 3, 2013

Morning Sessions

Colorado D

Paper Session

Saturday, August 3, 10:00 am - 10:45 am

Paper 1: Learning Spatial Concepts from Special Places

10:00 am - 10:20 am

Reese Todd, Texas Tech University

Examining children's drawings and teacher candidates' service-learning projects and lesson plans attest to the relevance of local places in promoting spatial thinking in social studies curriculum. Less instructional time for social studies challenges educators to seek multi-dimensional learning activities to integrate geographic literacy into the daily curriculum. The study describes local resources that foster geographic knowledge and spatial thinking skills aerial imagery of the school neighborhood, assessment of community educational needs, and unique physical features and historical landmarks. Results show learner-specific use of simple spatial thinking skills, spatial tools of representation, and processes/products undergirding geographic literacy.

Paper 2: Place Based Education: All schooling is local

10:20 am - 10:40 am

Janeil Rey, State University of New York at Fredonia

Michael Jabot, State University of New York at Fredonia

We are called as teachers to find ways in which to empower students to enter into a sustainable relationship with the world around them. Many of us believe that this is best done through a place-based approach. This paper explores a theoretical framework of place-based education and its implementation in a school with a focus on engaging students in critically examining their own community and its connection to local natural resources, particularly water. Students have embarked on a collaborative study of water in their community: tracing and understanding the watershed; investigating the potable water system; identifying the impact of their local waterways on the economy, culture, and history of their community; and reading and writing expository texts on the issues inherent in our choices about water, its use, conservation, and preservation. Examples of ways that this approach helps to meet the challenges laid out for us in the Common Core in language Arts, Geography for Life and the Next Generation Science Standards will be shared.

Colorado C

Hop Aboard to Mexico City

Saturday, August 3, 10:00 am - 10:45 am

Bert Bower, TCI

Join TCI to experience a lesson that explores spatial inequality in Mexico City. You'll be immersed in a Writing for Understanding activity and assume the role of exchange students and travel to four neighborhoods to survey people from four social classes about their experiences living in Mexico City. Ultimately you'll write a newspaper article describing the extreme inequalities evident in Mexico City. Afterwards you'll debrief your experience teacher-to-teacher with your TCI presenter and discover how you can implement this strategy and lesson in your classroom.

All

Colorado G

Paper Session

Saturday, August 3, 10:00 am - 10:45 am

Paper 1: Using Tony Wagner's Seven Survival Skills to Teach Geography

10:00 am - 10:20 am

Patrick Thomas, Armstrong Atlantic State University

Fred Isele, Western Illinois University

Dr. Tony Wagner in his book "The Global Achievement Gap" lists seven survival skills that we should be teaching our students if we want them to succeed in the 21st century. We will address these skills and how we can teach geography using these skills to improve our students' ability to be successful in the 21st century. The skills we will address are: Critical Thinking and Problem Solving, Collaboration and Leadership, Agility and Adaptability, Initiative and Entrepreneurialism, Effective Oral and Written Communication, Accessing and Analyzing Information and Curiosity and Imagination. We will demonstrate how to build these skills using geographic knowledge.

Paper 2: Badge System to Document Competency-Based Geospatial Learning

10:20 am - 10:40 am

Stephen McElroy, American Sentinel University

Competency-based learning entails skill acquisition through mastery of content. As part of our online GIS degree programs, we developed an online Geospatial Learning Lab that brings together people, resources and materials to foster the creation of an active learning community. The Geospatial Learning Lab includes a dynamic list of online GIS content, tutorials, case studies, and exercises. To track student achievement, we implemented a badging system in which students are issued a skill-level badge upon the demonstration of specific geospatial competencies. This paper will focus on the badging system and highlight the ways in which badges supplement course-based learning.

Colorado H

The role of the geographic information librarian in geoliteracy instruction and geography education at all educational levels

Saturday, August 3, 10:00 am - 10:45 am

Carol McAuliffe, Map & Imagery Library at George A. Smathers Libraries of the University of Florida

Geographic information librarians, in academic and research institutions, have a lot to offer the geographic education community. They have access to and knowledge of a wealth of geospatial resources which can be used to teach geographic principles and standards. There are also numerous benefits to multi-institutional collaboration which supports the involvement of academic librarians in K-12 education. This presentation will outline those benefits which apply directly to geographic information librarians and their educational partners.

All

MS

All

Saturday, August 3, 2013 Morning Sessions

Colorado J **All**
Paper Session: Korea in the Classroom and in the News II
Session Chair: Debra Troxell, West Forsyth High School, Clemmons, NC
Saturday, August 3, 10:00 am - 11:00 am
Paper 1: Teacher Field Study Experience, Photography and Teaching Geography
10:00 am - 10:20 am

Julie Wakefield, Robert McQueen High School, Reno, NV

Geography teachers are passionate about their subject and that passion is enhanced by using teacher field study experiences in class. All field studies are important since they provide the opportunity to observe, ask questions, and collect information. Among the types of information that most collectible are photographs. This session will demonstrate the use of photographs taken by the presenter and used to communicate geographic information, ideas, and cultural values within the context of South Korea.

Paper 2: American Geography Teachers' Knowledge on Korea
10:20 am - 10:40 am

Jongnam Choi, Western Illinois University
 Okkyong Yoon, Cheongju National University of Education

This study examines geography educators' familiarity and knowledge of Korea with their experiences in Korea using data from a survey conducted at the NCGE conferences in 2010 and 2012. The group that has personal experiences with Korea, such as attending educational programs about Korea and teaching about Korea in class, showed a significantly higher degree of familiarity and knowledge of Korea and Korea-related issues than the group without such experiences, regardless of their interest in territorial issues. However, no significant differences were observed based on gender, age, type of academic institute, years of service, and or the year in which the survey was conducted.

Paper 3: The Koreas, China, Japan: Territorial, Boundary, and Naming Issues
10:40 am - 11:00 am

Joseph Stoltman, Western Michigan University
 The international relationships and geopolitical disputes among South and North Korea, China, and Japan have a shared focus on territory, boundary, and geographical naming issues. This session will examine several of the issues and their potential use for classroom instruction and to have interests in community environment.

Gold Coin **All***
Computer Lab Session
Saturday, August 3, 10:00 am - 10:45 am

TBD

**Space for this session is limited. Seating available on a first come, first served basis.*

Colorado I **All**
Mapping the Mind: Teaching and Assessing Core Geographic Literacy with Reach the World

Saturday, August 3, 10:00 am - 10:45 am

Kristin Lahoda

Helping students to develop the knowledge, attitudes, values, and thinking skills needed for responsible citizenship in a complex, culturally diverse and rapidly changing world begins with core geographic literacy. In this workshop, participants will be introduced to Reach the World's research, done in partnership with Teachers College, Columbia University and the National Geographic Education Foundation and the free resources and games developed to teach geography in a fun and effective way!

Molly Brown **All**
Paper Session

Saturday, August 3, 10:00 am - 10:45 am

Paper 1: E-Learning Education and Community of Practice: Teaching Health Geography in Latin America

10:00 am - 10:20 am

Graciela Sandoval, Texas State University-San Marcos

Communities of practice are based on dynamic research environments which include platforms and other technological intangible forms of communication. Within the discipline of geography, I will outline a community of practice of 20 geographers from the United States, Mexico, and Brazil. This community of practice will create geographic knowledge to inform women how to be aware of geographic factors which affect sustainable development and cause sickness to women. The geographic knowledge management will be based on a platform containing intangible and eLearning components. As part of this platform, I will outline the SoftChalk operations for this knowledge management.

Paper 2: Development of Geography in India
10:20 am - 10:40 am

Vinayak Kale

India has a great Geography but development in Geography is limited up to some extent. Environmental issues now occupy a significant place in geographic knowledge. Agriculture continues to be the backbone of Indian economy and rightly remains a major thrust area in geography. Regional Development in India started in the nineteenth century. Historical geography has never been a priority area in Indian geography. Geo-Politics in India has been a neglected field of inquiry in the past, and continues at present. HR are not geographically studied. RS and GIS have developed in the last decade.

Saturday, August 3, 2013

Women in Geographic Education Luncheon

Spruce

Dr. Susan Schulten

Saturday, August 3, 12:00 pm - 12:55 pm

Join the Women in Geography Education Special Interest group for its annual fundraiser luncheon and business meeting. Lunch is open to all and will feature our 2013 WIGE scholarship winner and honored guest speaker, Dr. Susan Schulten.

Dr. Susan Schulten is professor and chair of the history department at the University of Denver, and the author of *Mapping the Nation: history and cartography in nineteenth-century America* (2012) and *The Geographical Imagination in America, 1880-1950*, both with the University of Chicago Press. She received her B.A. from the University of California at Berkeley, and her doctorate from the University of Pennsylvania. Some of her other work includes "The Civil War and the Origins of the Colorado Territory," *Western Historical Quarterly* (2013), "Emma Willard and the Graphic Foundations of American History," *Journal of Historical Geography* 33 (2007), and "Barack Obama, Abraham Lincoln, and John Dewey," *The DU Law Review* (2009).

Professor Schulten teaches courses on Lincoln, the Civil War and Reconstruction, America at the turn of the century, American thought and culture, the Great Depression, the Cold War, war and the presidency, and the methods and philosophy of history. In 2010 she was named a Fellow of the John Simon Guggenheim Memorial Foundation; she also writes for the *New York Times* "Disunion" series, which commemorates the sesquicentennial of the American Civil War.

Cost: \$35.00 - Tickets available in the NCGE On-line Store. Your ticket includes lunch.

Pre-Registered



Saturday, August 3, 2013

Afternoon Sessions

1:00 pm

Colorado A

Shields of the Plains: Spiritual Reflections

Saturday, August 3, 1:00 pm - 1:45 pm

Pamela Hetzell, Scott County Schools, Kentucky

The war shields of the American Plains Indian were highly personal possessions. They were a reflection of spirituality, tribal affiliations, personal preferences and the personality of the owner/maker. This workshop blends National Geography Standards 10 and 17 with the National Standards for the Arts, Visual Art: Standard 4. Join us in a lesson that has your students creating their own shields. Come dressed to paint!

MS

Colorado B

Common Core Task Force Meeting

Saturday, August 3, 1:00 pm - 1:45 pm

Beth Ratway, National Geographic Network of Alliances

This is a meeting for the National Geographic Network of Alliances Common Core Task Force. We will use this time to discuss moving forward with tools and resources to help alliances offer professional development to teachers focusing on geo literacy and the Common Core State standards. We will also discuss the work of aligning National Geographic resources to the Interconnections document, which shows the alignment between the National Geography Standards and the ELA Common Core Standards.

Invitation

Colorado C

"Climb Every Mountain" or Just the Tallest One on Earth

Saturday, August 3, 1:00 pm - 1:45 pm

Bert Bower, TCI

Join TCI to discover how you can engage students in learning about the physical characteristics of Mount Everest, the world's tallest mountains, and the reasons people are working to protect it. You'll be immersed in an Experiential Exercise and, working in teams, assume the role of climbers on Mount Everest, discovering some of the challenges presented by this physical feature as you "ascend" the mountain. Afterwards, you'll debrief your experience teacher-to-teacher with your TCI presenter and discover how you can implement this strategy and lesson in your classroom.

MS

Colorado D

Impacts of Climate Change in the Great Lakes Region

Saturday, August 3, 1:00 pm - 1:45 pm

Martha Mater, Michigan Geographic Alliance

Cindy Bloom, Michigan Geographic Alliance

After examining the indicators of climate change in the Great Lakes Region, students use research, discussion, and writing activities to explore possible impacts and consequences. Multiple perspectives will be probed. This presentation is based on materials developed for the MEECS project (Michigan Environmental Education Curriculum Support).

MS

Saturday, August 3, 2013 Afternoon Sessions

Colorado G
Development of a New Online Graduate Certificate Program in AP Human Geography: Professional Development for AP Human Geography Teachers: Panel Discussion

Saturday, August 3, 1:00 pm - 1:45 pm

Organizer: Rich Schultz, Elmhurst College

Panelists:

Joseph Kerski, Esri

Paul Gray, Russellville Schools

Diana Sinton, University of Redlands

Judy Bock, Elmhurst College

Seth Dixon, Rhode Island College

This panel discussion discusses the new Online Graduate Certificate Program at Elmhurst College in AP Human Geography for APHG teachers. The curriculum of the program will be presented as well as details on how to become involved with the program. The panel discussion includes both faculty members as well as members of the Program Advisory Board. Attendees are invited to come with questions about the program.

Colorado H
The Online Illinois Classroom Atlas: A New Interactive Resource Geography: Professional Development for AP Human Geography Teachers: Panel Discussion

Saturday, August 3, 1:00 pm - 1:45 pm

Amy Bloom, Illinois State University

Jill Freund Thomas, Illinois State University

Crystal K. Williams, Illinois State University

Darrell P. Kruger, Illinois State University

Transform your idea of maps in the classroom, and experience a revolutionary way to implement the study of Geography through an interactive online mapping system designed, developed, and supported by the Illinois Geographic Alliance and Illinois State University. After a brief overview of the online atlas and accompanying lesson plans, we will demonstrate how to actually use the atlas in the classroom through interactive activities, including those geared towards AP Human Geography. Finally, we invite session participants to share ideas for ways to customize the atlas for better use in their classroom. Note: This session is applicable for all teachers, not just Illinois teachers.

Molly Brown
Ideas for incorporating human geography into AP History Courses

Saturday, August 3, 1:00 pm - 1:45 pm

June Satak, West Albany High School

While aligning my AP curriculum with Oregon and Common Core Standards, I saw that it was possible to adapt many of my favorite geography lessons into the AP European History curriculum. I plan to share some of my most successful lessons that connect to the Age of Exploration, Age of Imperialism, and changing patterns of daily life in European history.

All **Colorado I**
The Learning Cluster Model as a Means of Extending the Capabilities of an Online Professional Development System in Geography

Saturday, August 3, 1:00 pm - 1:45 pm

Dick Boehm, Texas State University-San Marcos

Carmen Brysch, Texas State University-San Marcos

The Learning Cluster (LC) model has been developed to foster teacher leadership, while employing the "Geography: Teaching with the Stars" ("Stars") online PD system which is designed for pre-service and in-service geography social studies and Earth/environmental science teachers. Teacher leaders can extend the "Stars" system to hundreds of colleagues many of whom are located in remote settings. At each link in the LC new teacher leaders are formed and the progression continues allowing a widespread dissemination of "best practice" methods of classroom teaching. For more information on Stars visit the website at www.geoteach.org.

All **Colorado J**
Selecting Content and Materials for the Study of the Korean Peninsula

Saturday, August 3, 1:00 pm - 2:45 pm

Organizer: Jongnam Choi, Western Illinois University

Okkyong Yoon, Cheongju National University of Education, Korea

Workshop Presenters:

Susan Hollier, The Woodlands High School

Kenneth Keller, Danbury High School

Kate Trindle, Northeast Community College, Norfolk, NE

Joseph Stoltman, Western Michigan University

This workshop will focus on demonstrating classroom materials that are designed for teaching the geography, culture, and regional issues of the Korean Peninsula during the 21st century. A goal of the workshop is to obtain participant reviews of materials that are designed to fit the limited amount of time that is devoted to the Korean Peninsula in the social studies course, but to maximize the important key ideas and geographic content that is presented. The residual effects of historical geography and the more contemporary issues of geopolitics, boundary, and territorial concerns will be placed in the context of the economic and urban transformations that have occurred during the last two decades of the 20th and into the 21st century. Maps, inquiry using data based resources, and regional and global influences will be highlighted to demonstrate the importance of the Korean Peninsula from a geographic perspective. The materials are also intended to provide qualitative improvement to the presentations of the Korean Peninsula in textbooks. All materials presented may be retained by the participants.

All* **Gold Coin**
Computer Lab Session

Saturday, August 3, 1:00 pm - 1:45 pm

TBD

**Space for this session is limited. Seating available on a first come, first served basis.*

Saturday, August 3, 2013 Poster Sessions

- | | |
|--|--|
| <p>TBD
 The development of Mongolian 5th grade students Environmental Literacy
 Saturday, August 3, 1:00 pm - 2:45 pm
 Dovdon Butedmaa, Seoul National University
 The purpose of this study is to investigate Mongolian students' environmental literacy levels and what variables affect their environmental literacy. The design of the study is a survey that is one of the descriptive methods of quantitative studies. This study will be a nationwide survey which helps describe the basic characteristics of the target group. The sample of this study will be consisting 1100 5th grade elementary school students in Mongolia. The number of participants from each area is in the same ratio as the population of each area to obtain responses representative of Mongolian children in 5th grade.</p> | <p>All TBD All
 Mitigating the impacts of urban sprawl: Creating field based learning and stewardship opportunities in economic and urban geography
 Saturday, August 3, 1:00 pm - 2:45 pm
 Brock Brown, Texas State University-San Marcos
 Linda Carol Nicholas
 Rapid urbanization and expanding landscapes of sprawl are resulting in overwhelming transformation of the physical and cultural environments of urbanizing areas. Simple remedies in landscape design can be implemented to enhance habitat value in urban areas, conserve water, produce food, and improve esthetic value. The Hortus Conclusus of San Marcos is a dually certified evolving urban wildscape and sustainable habitat project in an urban residential area that demonstrates techniques to mitigate the negative impacts of urban sprawl while becoming more nutritionally self sufficient through food production. The property is used as a demonstration site to support urban and economic geography instruction, provide field trips for community and student organizations, and offer residential stewardship opportunities for advanced student with interests in urban sustainability.</p> |
| <p>TBD
 Building Background Knowledge for 9th Graders in AP Human Geography
 Saturday, August 3, 1:00 pm - 2:45 pm
 Adalia Davis, Lamar CISD
 Simple ideas and strategies for increasing the cultural literacy of freshmen taking AP Human Geography to improve their performance on the AP exam will be shared.</p> | <p>HS
 The Earth from Near-Space: High-Altitude Ballooning as a Means for Integrating Geography, STEM, and the Common Core
 Saturday, August 3, 1:00 pm - 2:45 pm
 Alex Oberle, University of Northern Iowa
 Alyssa Holt, University of Northern Iowa
 Mollie Ullestad, University of Northern Iowa
 This NASA-Iowa Space Grant Consortium funded project engages social studies and science pre-service teachers in an interdisciplinary project to design, launch, and track a high-altitude balloon; to analyze the data and imagery collected from the balloon; and to develop standards-based lesson plans/curricular materials from the larger project. This poster describes the project context but focuses specifically on how the balloon-based imagery can form the basis for novel curricular materials that integrate the newly revised National Geography Standards with STEM (through the Next Generation Science Standards) and with the Common Core (through Literacy in History/Social Studies, Science, and Technical Subjects).</p> |
| <p>TBD
 Double Whammy: High-Severity Fire and Drought in Ponderosa Pine Forests
 Saturday, August 3, 1:00 pm - 2:45 pm
 Joy Mast, Carthage College
 Our research asks how well these forests recover when the unprecedented conditions of a high-severity fire regime combine with historical drought conditions. Tree recruitment is documented in New Mexico after high-severity fires in the drought that prevailed from ~1945 to 1958. Model simulations predict fewer favorable opportunities for germination, fewer periods favorable for seedling establishment, shortening of favorable growth periods after establishment, and more adverse conditions. We empirically identify 2 pathways of forest recovery following high-severity fires during drought: recovery to non-forest types, either dense shrubfields or shrubs in grasslands (4 sites), or recovery to hyperdense forest (1 site).</p> | <p>U
 The Ohio River Basin: Analysis and Future Projections
 Saturday, August 3, 1:00 pm - 2:45 pm
 David Howarth, University of Louisville
 An analysis of the hydrologic cycle over the Ohio River Basin is performed using a modified version of a Thornthwaite water balance model. The model uses monthly precipitation and temperature data as inputs and calculates actual evapotranspiration, direct runoff, snow accumulation, total monthly runoff and soil moisture storage for the period 1931-2010. Significant changes are evident in the temperatures and in the monthly distribution of precipitation over the 80 year period. Projections for future changes are also presented.</p> |

Saturday, August 3, 2013 Afternoon Sessions

2:00 pm

Colorado A **MS**
**Investigating Urban Heat Island Effects...A
 Photovoice Project**

Saturday, August 3, 2:00 pm - 2:45 pm

Jeannine Kuropatkin, Arizona Geographic Alliance

There's no hotter topic than the urban heat island and what better place to investigate its effects than the Phoenix metropolitan area. Come see how 7th and 8th graders, participating in a Photovoice Project, discovered how the UHI impacts their personal lives. Phases of the project included: instructional workshops on "natural" vs "built" environments and the UHI effects in Arizona; a field study measuring a variety of surface temperatures on the school campus; photography fieldwork; photo board analyses and collaboration to produce a powerpoint. Students presented their UHI Photovoice slideshow at a "Geography Family Night" alongside guest speaker Nancy Selover. This session will provide educators with a "hot to" guide for implementing their own photovoice style investigation as well as share "lessons learned."

Colorado B **All**
**Teaching STEM in a Geography Classroom and
 NOT using GPS and GIS?**

Saturday, August 3, 2:00 pm - 2:45 pm

Gale Ekiss, Arizona Geographic Alliance

Karen Guerrero, Arizona Geographic Alliance

While geospatial technologies are important and valuable tools, not every teacher is willing to learn and adapt these tools for their classrooms. But STEM concepts and principles can be integrated into K-8 social studies classrooms. Come see how integrating the disciplines is possible as well as cognitively sound. All lessons featured will be based on National Geography, Common Core (ELA and/or math), and Next Generation Science Standards. And all lessons will contain strategies for language acquisition benefiting our diverse populations.

Colorado C **All**
**Population Connection: What is it and how
 can their lessons and materials fit in with my
 teaching?**

Saturday, August 3, 2:00 pm - 2:45 pm

Kristi Karis, Michigan Geographic Alliance

This overview of Population Connection, a national organization that educates students and advocates action to stabilize world population at a level that can be sustained by Earth's resources, is aimed at educators of all levels. Learn more about the excellent teaching resources. Sample lessons for young learners, elementary/secondary students, and pre-service teachers. Participants receive a CD of over 50 lessons and other handouts.

Colorado D **All**
**A Little Chaos is Good: Inquiry Using Maps,
 Museum Resources, and National Common
 Core**

Saturday, August 3, 2:00 pm - 2:45 pm

Michelle Pearson, History Colorado State Historical Fund

April Legg, History Colorado Education Division

Engaging students in a student-driven inquiry experience is easy once you have the right resources at hand! Explore how you can use a social studies lens to view the new National Common Core Standards and subsequently develop meaningful inquiry lessons with minimal effort and maximum impact for your classroom. Educators from History Colorado will share online resources, inquiry activities using museum maps and artifacts, and primary and secondary resources that will help you harness higher level thinking strategies and place them in your classroom. Student-centered learning, inquiry, and National Common Core will be focus areas for our interactive session.

Colorado G **All**
Paper Session

Saturday, August 3, 2:00 pm - 2:45 pm

**Paper 1: Azulejos: Tile Buildings in Iquitos
 2:00 pm - 2:20 pm**

Kay Gandy, Kentucky Geographic Alliance

Iquitos, Peru was the port for ships during the time of the Rubber Boom" in the Amazon. The wealth of the city spilled over into the construction of buildings with imported tile from Portugal. and Italy. Remnants of the tile buildings still exist today and can be used to teach concepts throughout the curriculum."

**Paper 2: The Importance of Pre-Columbian
 Exchanges to Social Sciences**

2:20 pm - 2:40 pm

Carl Johannessen, University of Oregon

Kathleen Wheeler

In the past, scholars have explained similarities between ancient cultures the across oceans by referring to parallel evolution or independent invention; the idea being that human brains work in a similar way so it would make sense that we evolve similar cultural traits. After my sixty years of research into the transoceanic pre-Columbian biological exchanges by mariners I have a more accessible and reasonable theory. Based on the overwhelming evidence that pre-Columbian cultures across the tropical oceans were in regular contact via transoceanic voyaging it is reasonable to accept that the mariners also exchanged cultural traits across the oceans leading to cultural similarities.

Gold Coin **All***
Computer Lab Session

Saturday, August 3, 2:00 pm - 2:45 pm

TBD

**Space for this session is limited. Seating available on a first come, first served basis.*

Saturday, August 3, 2013 Afternoon Sessions

Colorado H

How did that get in my lunchbox?

Saturday, August 3, 2:00 pm - 2:45 pm

Paul Nagel, Texas Alliance for Geographic Education
Is opening your lunchbox the best part of your day? Often packed with love and care, where does the food in our lunchbox come from? In this interactive workshop for elementary and middle school, students learn where the different tasty parts of their lunch are grown. Learn about the food pyramid and how to get your students to analytically express their views through the writing process.

Colorado I

Paper Session

Saturday, August 3, 2:00 pm - 2:45 pm

**Paper 1: Fieldwork in Geography Education
2:00 pm - 2:20 pm**

Andrei Israel, The Pennsylvania State University
This paper reports results of a qualitative study of a geography field course investigating environmental issues in the Amazon and Andes regions of Peru. I examine the role of the formal curriculum here, three student-designed research projects in students' educational experiences. In this case, the projects themselves proved secondary in students' geographic learning, as the visceral richness of the experience generally overshadowed the research activities. But the formal curriculum was not irrelevant to, but rather was a crucial constitutive factor in students' experiences of the field sites. This result helps geography educators rethink the connections between formal and informal curriculum in fieldwork.

**Paper 2: Placing human-environment connections in their geographic context: a case study
2:20 pm - 2:40 pm**

Demian Hommel, Oregon State University
Despite the recent surge in online learning opportunities in higher education, research suggests that students not only benefit from face-to-face interaction, they often learn considerably more from field trips and other forms of experiential education. Additionally, students often show a higher level of analytical development as a result of seeing patterns and processes function in their geographical context. Results from a Field Research Methods in Geography course at Oregon State University provide insight into some of the challenges and opportunities for linking human-environment interaction with experiential education. Using this course as an example of the transformative potential of field research, I offer a few suggestions for implementing experiential strategies in face-to-face and online learning environments.

3:00 pm

Colorado A

Climb the Common Core Ladder

Saturday, August 3, 3:00 pm - 3:45 pm

Rebecca Reed, Delaware Geographic Alliance
This workshop will introduce the 10 ELA CCSS standards. Participants will experience how the standards can be met by reading geographic information text.

ES

Colorado B

Soil Solutions: A Medieval Soil Mystery

Saturday, August 3, 3:00 pm - 3:45 pm

Diane Godfrey, Arizona Geographic Alliance
Looking for ways to infuse STEM with geography and history? This engaging middle school lesson, aligned to the Common Core and ELL adapted, is ready to go! Students are transported back in time to the year 1100 AD to investigate what is causing the lord of the manor's wheat crop to grow poorly. Students learn about the manor's role in the feudal system and the spatial layout of a manor with a mapping activity. Through hands-on investigations using the engineering design process model students investigate the soil in the manor's field in order to solve this soil mystery.

U

Colorado G

Paper Session

Saturday, August 3, 3:00 pm - 3:45 pm

**Paper 1: Academic librarian - high school teacher collaboration: bringing AP Human Geography students to a university GIS Day event
3:00 pm - 3:20 pm**

Carol McAuliffe, George A. Smathers Libraries at the University of Florida
Shannon Hamlett Leontiades
For the past two years, AP Human Geography students from P .K. Yonge Developmental Research School took part in GIS Day celebrations sponsored by the George A. Smathers Libraries at the University of Florida (UF). Students created maps utilizing ArcGIS Online, which were then showcased at GIS Day. While on campus for the event, they attended lectures by GIS professionals, explored the UF Map & Imagery Library, and participated in hands-on workshops using GIS software and GPS technology. The presenters will share their experiences developing an in-classroom mapping project and organizing the on-campus GIS Day student activities.

**Paper 2: AP Human Geography Teacher Survey: Illinois and Beyond
3:20 pm - 3:40 pm**

Amy M. Bloom, Illinois State University & Illinois Geographic Alliance
Michael D. Sublett, Illinois State University
Darrell P. Kruger, Illinois State University & Illinois Geographic Alliance
We conducted a survey of AP Human Geography (APHG) teachers in Illinois in 2012 to assess the status of APHG in the state. The format of the survey was an online questionnaire incorporating multiple choice and free response questions related to teacher background, course format/materials, APHG topics teachers and students find challenging, field activities, available technology, support, professional development, and the APHG exam. In this session, we will share the main survey outcomes and reveal how this information has proven valuable to the Illinois Geographic Alliance's strategic planning efforts in support of APHG teachers and the wider APHG community.

MS

All

All

Saturday, August 3, 2013 Afternoon Sessions

Colorado C

DS

Content and Common Core: Using Trade Books in the Elementary Classroom

Saturday, August 3, 3:00 pm - 3:45 pm

Martha Mater, Michigan Geographic Alliance

Geographic information can be conveyed through images, poetry, and text in commonly found trade books. Several examples will be demonstrated, using strategies to find content, think geographically, and practice common core skills. Take home ideas and more -door prizes include free books!

Colorado D

HS

Increasing AP Human Geography in schools through promoting Global Awareness

Saturday, August 3, 3:00 pm - 3:45 pm

Julie Wakefield, Geographic Alliance in Nevada

The presenter will share how a Global Studies Program at McQueen High School in Reno, NV was developed and implemented. In creating the curriculum for this program, AP Human Geography was placed as a required course at the sophomore level. Find out how this program is increasing student enrollment in AP Human Geography and other AP courses throughout the school. This will be an open discussion format about creating signature programs within schools.

Colorado H

All

Paper Session

Saturday, August 3, 3:00 pm - 3:45 pm

Paper 1: Spatial thinking, geospatial technologies, and geography education: Course intro

3:00 pm - 3:20 pm

Injeong Jo, Texas State University-San Marcos

A course designed to help educators integrate spatial thinking and geospatial technologies into their teaching of geography is introduced. Class activities, assignments, and students' final products will be shared to provide the audience with insights into the development of similar courses in a variety of settings.

Paper 2: Remote Sensing Teaching Resources and Training through iGETT

3:20 pm - 3:40 pm

Osa Brand, NCGE

Ann Johnson

Remotely sensed imagery and data have become easily accessible, yet instruction in remote sensing has been hampered by the lack of introductory level teaching resources and of professional development opportunities for educators. The NCGE's Integrated Geospatial Education and Technology Training (iGETT) project, funded by the National Science Foundation since 2007, provides free on-line remote sensing teaching materials and a comprehensive professional development program that includes software for your lab. Join us to learn more about how the iGETT resources and opportunities can help you integrate remote sensing into your curriculum.

Colorado I

MS

Tell Me a Story: Using Folktales to Teach Geography

Saturday, August 3, 3:00 pm - 3:45 pm

Elizabeth Carpentiere, FACES Magazine

Pat Betteley

Learn how to use specific folktales and skits from around the world to teach global issues. Authentic literature from the Americas, Africa, Asia, and Europe will bring the themes of historical, human, physical, and environmental geographies to life for students. Stories will be provided and examples of hands-on activities will be demonstrated.

Colorado J

HS

A Snapshot of Place: How Population Pyramids Can be Used to Teach the Demographic Transition Model and Place

Saturday, August 3, 3:00 pm - 3:45 pm

Steve Cline, Windsor High School, Windsor, CO

We can learn a great deal about a place through its population pyramid. In this lesson students take information from the Census Bureau to create a population pyramid. They analyze the pyramid and research the place to determine why the pyramid looks the way it does. This can lead to all kinds of inquiry about how population demographics affect place. Why does the pyramid for Leavenworth, Kansas or Punta Gorda, Florida look unique? Why does Buffalo County, South Dakota look like Nigeria? Participants receive lesson materials including pre-made documents that can be used as is or modified extensively.

Gold Coin

All*

Computer Lab Session

Saturday, August 3, 3:00 pm - 3:45 pm

TBD

**Space for this session is limited. Seating available on a first come, first served basis.*

4:00 pm

Colorado A

MS

Import Partners

Saturday, August 3, 4:00 pm - 4:45 pm

Rhonda Gonzalez, Arizona Geography Alliance

Students will learn who our import partners are by completing a homework assignment finding products in their homes from other countries. When they return to school the products are compiled into a list showing who our biggest import partners are from highest to lowest. They then complete a world map with a key to show who these partners are. This assignment is a good introductory assignment to world geography as students have to find some smaller countries they are not familiar with.

Saturday, August 3, 2013 Afternoon Sessions

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| <p>Colorado B All
 Australia: Country, Continent, and the World's Largest Island
 Saturday, August 3, 4:00 pm - 4:45 pm
 Christine Drake, Old Dominion University
 This workshop considers how these three aspects are drawn together by the geographical concept of distance. This has deeply affected Australia's development, including its aboriginal heritage, its late discovery by Europeans, its current population composition, and its distinctive wildlife and vegetation. Other important geographical characteristics of Australia are also discussed.</p> | <p>Colorado H ES
 The Big Reveal! Demonstrating AP Human Geography Learning Activities linked to Ambrose Video's new series - "Human Geography: Making Sense of Planet Earth"
 Saturday, August 3, 4:00 pm - 4:45 pm
 Organizer: Susan Hardwick
 Presenters:
 Ronald C. Meyer, Ambrose Video
 Alan Dohra, Ambrose Video
 Rebecca Haapanen, University of Oregon
 The goal of this presentation is to provide an opportunity to demonstrate a set of innovative AP Human Geography lesson plans developed by a team of experienced APHG teachers. Each of these new student-centered learning activities are based on APHG course content included in (1) the College Board's APHG content outline; (2) Ambrose Video's newly released Human Geography: Making Sense of Planet Earth eight-part series; and core concepts and skills specified in the second edition of Geography for Life: The National Geography Standards. Sample lesson plans, and other information related to using the new Ambrose video series to teach AP Human Geography, will be distributed during the presentation.</p> |
| <p>Colorado C HS
 Using Real Lives" Educational Simulation for Global Understanding"
 Saturday, August 3, 4:00 pm - 4:45 pm
 Linda Conway, Douglas County School District
 I was excited to come to class to learn!" "We were able to acquire different perspectives for the game and each other." These are comments from students after participating in a unit that an online educational simulation called "Real Lives" was used. See a lesson that transformed learning in the classroom. "</p> | <p>Colorado I All
 Collaborative Geographic Education University, Pre-Service Teachers, and Local Elementary Schools: Great Possibilities
 Saturday, August 3, 4:00 pm - 4:45 pm
 Kevin Krahenbuhl, Dakota State University
 Co-presenters TBD
 This presentation will highlight the experiences, potential, drawbacks, and implications of a collaborative experiential learning activity with a university and a local elementary school. The experience included pre and post lessons from university students in the classroom, a collaborative field trip coordinated with USGS EROS, and a powerful experiential learning opportunity for all involved - elementary students and teachers, university students, and the College of Education. Additionally resources for geography related field trip sites will be discussed, gathered, and disseminated to any interested.</p> |
| <p>Colorado D ES
 Rainy & Splash - East & West: The Water Cycle, Geography and the Continental Divide
 Saturday, August 3, 4:00 pm - 4:45 pm
 Paul Nagel, Texas Alliance for Geographic Education
 Rain falls on the continental divide and two little raindrops are off on an adventure learning about the geography of the United States. One goes east and one goes west. Join in the adventure and learn about the water cycle, human and physical geography and challenge elementary and or middle school students to critically think about a watery adventure.</p> | <p>Colorado J All
 I Like to Move It! Three ways to teach movement
 Saturday, 4:00 pm - 4:45 pm
 Rena Elert, ABC-CLIO and Hill-Murray School
 In this session participants will be introduced to three different lessons that connect the theme of movement, the environment, and natural resources together. Through research and mapping students gain a better understating of the theme of movement while developing fundamental research and analysis skills. Participants will receive copies of lesson resources from the presentation as well as access to on-line resources for a period of time.</p> |
| <p>Colorado G U
 Paper Session
 Saturday, August 3, 4:00 pm - 4:45 pm
 Paper 1: AP Human Geography Enrollment Trends at a Research I University
 4:00 pm - 4:20 pm
 JoAnn Vender, Penn State
 This paper explores enrollment trends among applicants to a Research I university who have reported Advanced Placement Human Geography (APHG) scores to the university.</p> | |
| <p>Gold Coin All*
 Computer Lab Session
 Saturday, August 3, 4:00 pm - 4:45 pm
 TBD
 <i>*Space for this session is limited. Seating available on a first come, first served basis.</i></p> | |

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