

A scenic view of snow-capped mountains and a forested valley. The mountains are rugged and covered in patches of snow, with a clear blue sky above. The foreground shows a lush green valley with dense evergreen forests.

ASA 2017

Exploring New Heights for Science and Stewardship

**Colorado School of Mines
Golden, Colorado
July 28–31, 2017**

“Come early, stay late!”

“The earth is the Lord’s and everything in it,
the world and all who live in it.”

—*Psalms 24:1*



Colorado School of Mines



Guggenheim Hall



- Secular, public university
- Slogan: “Earth, Energy, Environment”
- 5,800 undergraduates and grad students
- Compact campus nestled against the Rocky Mountain foothills
- Four blocks from Golden main street
- Eco-friendly campus and services

Parker Student Center



Maple Residence Hall



Technical Emphases

- Energy, Water, and Environment
- Ethics and Economics of Creation Care / Sustainability
- Engineering and Applied Technology
- Educating Students and Faculty
- Exploring Physical Sciences
- Exploring Biological and Agricultural Sciences
- Theology and Other



NREL 22179

Confirmed Plenary Speaker – Philip Yancey



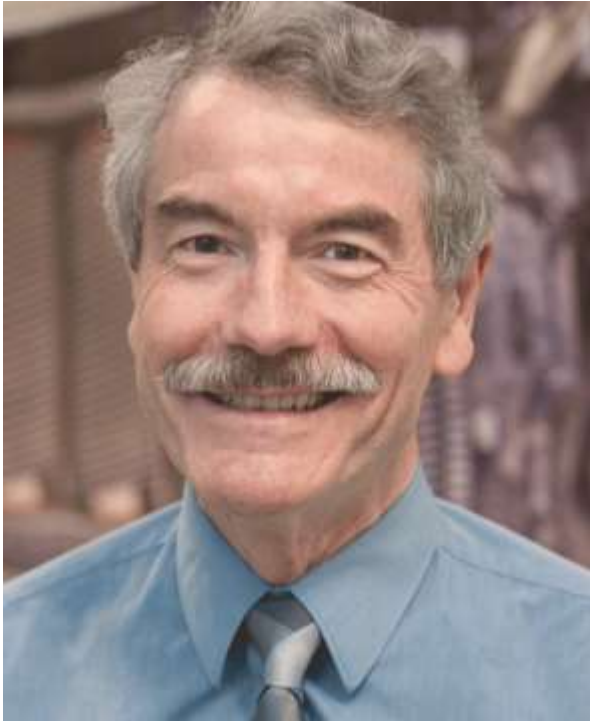
- Internationally known evangelical author and speaker
- Author of 21+ books, countless articles, editor-at-large of *Christianity Today*
- Banquet speaker

Confirmed Plenary Speaker – Katharine Hayhoe



- Atmospheric scientist
- Associate Professor, Texas Tech University; Director of the Climate Change Science Center
- Research focus: Projections of climate change and its impact on human society
- Popular speaker and author on climate change, particularly among evangelical Christian audiences
- Will speak on “Climate Change: Fact, Fiction, and Faith”

Confirmed Plenary Speaker – Ian Hutchinson



- Professor of Nuclear Science and Engineering at MIT Plasma Science and Fusion Center
- International expert and author on fusion energy and plasma physics
- Popular speaker at Veritas Forum and in the popular press on science and Christianity
- Will speak on “The Technical and Spiritual Challenges of Sustainable Energy

Confirmed Plenary Speaker – Annabelle Pratt



- Principal Engineer (Electrical)
- National Renewable Energy Laboratory
- Modernizing the Electrical Grid
- Will speak on “Modernizing the Electric Grid: Why and How?”

Confirmed Plenary Speaker – James Peterson



- Schumann Professor of Ethics; Director, Benne Center for Religion and Society, Roanoke College, Virginia
- Adjunct Professor, Virginia Tech Carilion School of Medicine
- Fellow, International Society for Science and Religion
- Will speak on “CRISPR Cas9 and Changing Human Nature”

Special Symposium: Water and the Environment – Dorothy Boorse



- Professor of Biology, Gordon College, Massachusetts
- Wetland Ecologist
- Writer and speaker on ecology, creation care and science and Christian faith
- Lead author, *Loving the Least of These: Addressing a Changing Environment* with the National Association of Evangelicals

Conference Leadership

- Program Chair: Lynn Billman
- Local Arrangements Co-Chairs: Ken and Cheryl Touryan
- Support expected from:
 - Rocky Mountain ASA Chapter Board
 - CSM Christian Faculty and Admin Staff Bible Study
 - Colorado Christian University Science Faculty and Students
 - Colorado State University Christian Faculty Group
 - National Renewable Energy Lab Bible Study



Golden, Colorado

- “Where the West Lives” (1862)
- 30–40 min drive from Denver International Airport
- Public transportation (light rail) from airport
- Amazing side trips for ASA members and families



Special Features

- **Poster Session:** *New Approach* with abstract submittal, check one:
 - ☐ presentation
 - ☐ poster
 - ☐ reviewers' choice
- **Banquet** with speaker Philip Yancey
 - Invite local pastors, science/engineering faculty, and local DOSeR contacts



Mathematical Association of America

Friday All-Day Field Trip:

Denver Front Range Geology Tour

- Led by Steve Smith, U.S. Geological Survey
- Geologic history of Colorado/Denver
- History of the Red Rocks area (including the amphitheater)
- Colorado dinosaurs, fossils and footprints



Friday All-Day Field Trip:

Rocky Mountain National Park

- Bus tour of one of the most popular national parks in America
- 14,000+ feet on Trail Ridge Road
- Fantastic scenery, plus potential for viewing elk and rocky mountain sheep
- Led by Angela Kantola, wildlife biologist



Friday Morning Field Trip:

National Renewable Energy Laboratory

- The nation's premier laboratory dedicated to research and development of renewable energy and energy efficiency technologies
- Tour research facilities:
 - Solar energy
 - Energy systems and electrical grid integration
 - Energy-efficient building design



Photo by Dennis Schroeder, NREL 26954

Friday Afternoon Field Trip: Coors Brewery Self-Tour

- World's largest single-site brewery
- Started 1873 by Adolph Coors
- Limited samples available to 21+



Friday Afternoon Workshop

The Energy, Ethics, and Environmental Nexus

- Led by Brent Nelson, Engineering Manager at the National Renewable Energy Laboratory



Monday Afternoon Field Trip:

Two Climate Change Labs **SOLD OUT**

- **National Center for Atmospheric Research** (Boulder, CO) – Tour the Visualization facility, Weather Trail, and more
- **National Ice Core Laboratory** (Lakewood, CO)
Overview of their research, visit to the working areas and storage facility
- Monday July 31
immediately
after lunch



Tuesday Morning (Aug 1) Walk or Hike: South Platte River, Mt. Galbraith

- **South Platte River:** Join Kate Hogan of the Audubon Society of Denver for a walk along the wetlands! Explore native plant gardens, ponds, riparian forest, and grassland habitats for resident and migratory birds, frogs, turtles, butterflies, and more.
- **Mt. Galbraith:** Join local residents on a 4.6-mi balloon loop hike around Mount Galbraith near Golden (938-ft elevation gain). Mt. Galbraith boasts some steep, rocky trails that reward the hardy with commanding views of Golden, the plains, and the Continental Divide.



“Come Early, Stay Late”

Plan your vacation
in Colorado
next year!



Ideas for Families (nearest)

Hiking (all over the place, near and far, easy and hard)



Boulder Downtown.com

About 30 minutes or less

- ▶ Lookout Mountain/Boettcher Nature Center
- ▶ Lookout Mountain/Buffalo Bill's Grave
- ▶ CSM Geology Museum
- ▶ Dinosaur Ridge
- ▶ Colorado Railroad Museum
- ▶ Coors Brewery Tour
- ▶ Red Rocks Amphitheater
- ▶ Denver Museum of Nature and Science (excellent children's activities)
- ▶ Denver Zoo
- ▶ Golden "Splash" Park
- ▶ Water World
- ▶ Denver Children's Museum

(continued)

- ▶ History Center of Colorado (excellent children's activities)
- ▶ Denver Art Museum (excellent children's activities)

About 45 minutes

- ▶ Chautauqua Park
- ▶ Fiske Planetarium
- ▶ Celestial Seasonings Tea Tour
- ▶ Pearl St Mall
- ▶ Golden Gate Canyon State Park
- ▶ Georgetown-Silverthorne Narrow Gauge Railroad
- ▶ Idaho Springs, Nederland (cute mountain towns, Argo Gold Mine Tour)

Ideas for Families (farther)

About 90 minutes

- ▶ Ft Collins Museum of Discovery
- ▶ River Rafting (Clear Creek, Cache La Poudre River, Arkansas River)
- ▶ Copper Mountain (Ski Resort) Summer Activities
- ▶ Rocky Mountain National Park
- ▶ Pawnee National Grasslands
- ▶ Air Force Academy Self-Guided Tour
- ▶ Garden of the Gods (sandstone formations)
- ▶ Focus on the Family Headquarters
- ▶ Mt Evans (drive 14,000 ft)



Over two hours

- ▶ Great Sand Dunes National Park
- ▶ Black Canyon of the Gunnison National Park
- ▶ Mesa Verde National Park (Ancient Pueblans)
- ▶ Florissant Fossil Beds National Monument
- ▶ Browns Canyon National Monument
- ▶ Bent's Old Fort National Historical Site
- ▶ Dinosaur National Monument
- ▶ Colorado National Monument
- ▶ 4 Ancient Puebloan National Monuments
- ▶ Glenwood Springs
- ▶ Steamboat Springs
- ▶ Pagosa Springs
- ▶ Durango-Silverton Narrow Gauge Railroad



See You in Colorado!

