

## Saturday, February 7

- 8:00 a.m. - 8:20 a.m. **Welcome address** by Brian Drapeaux, Deputy Superintendent, GCNP followed by a seminar introduction and overview by Jack Pennington, GCFI Program Manager.
- 8:25 a.m. - 9:10 a.m. **De-wrinkling the Fabric: Northern Arizona's structural geology** with Brian Gootee, Research Geologist, State of Arizona
- 9:15 a.m. - 10:00 a.m. **In a Mesozoic Muddle?** Let geologist and author, Christa Sadler explain the geology that immediately surrounds the Park
- Break
- 10:10 a.m. - 10:50 a.m. **Zoning Out at the Canyon: The history of biological research, essentials of ecology as applied by C. Hart Merriam, and more** with Stewart Aitchison, ecologist and author
- 10:55 a.m. - 11:25 a.m. **Curiouser, and Curiouser: The tale of Agave phillipsiana** with Wendy Hodgson, Desert Botanical Gardens
- 11:30 a.m. - 12:10 p.m. **At the Top of their Game: The puma, an apex predator's relationship with bighorn sheep at Grand Canyon** with Brandon Holton, wildlife biologist and researcher
- 12:10 p.m. - 12:50 p.m. **Break for Lunch & Networking**
- 12:50 p.m. - 1:30 p.m. **The Grandest Ride: History of mules at Grand Canyon** with photographer and historian Tom Brownold
- 1:35 p.m. - 2:05 p.m. **Pioneer Trails 'to' Grand Canyon** with Dick Brown, Grand Canyon Historical Society, author and engineer
- Break
- 2:15 p.m. - 2:55 p.m. **Logging, Trail Building, River Running and More: African-American history in the Grand Canyon area** with Margaret Hangan, Forest Archaeologist, Kaibab National Forest
- 3:00 p.m. - 3:05 p.m. **2016 NPS Centennial Planning Update** with Kirby Lynn Shedlowski
- 3:10 p.m. - 3:55 p.m. **Running from Raindrops: The origin and effects of Arizona's monsoon** with Carl Bowman
- 4:00 p.m. - 4:30 p.m. **Grand Canyon after Dark: The stars and their stories** with Bryan Bates, Coconino Community College
- 4:35 p.m. - 5:05 p.m. **Bathed by Starlight: Night skies over Grand Canyon National Park** with Laura Williams
- Evening (5:45p.m. - 7:30 p.m.) An informal evening mixer at **Kolb Studio** sponsored by Delaware North Companies. Join us for a fun reception at historic Kolb Studio. Beer, wine and light refreshments will be provided for GTS attendees. It's a perfect venue to catch up with old friends and make new ones.

### Leave No Trace – Enjoying the Outdoors Responsibly

LNT Traveling Trainers, Pat and TJ, will be set up in the Community Building. They'll have leaflets and other goodies to share that highlight the LNT outdoor skills and ethics program, which is essential to all outdoor enthusiasts and all environments. This national program is administered by the Leave No Trace Center for Outdoor Ethics, whose mission is to teach people how to enjoy the outdoors responsibly.

### Special thanks to the following sponsors of this year's GTS:

- Arizona Outback Adventures
- Delaware North Companies
  - Discovery Treks
  - Four Seasons Guides
  - Pink Jeep Tours
- The Wildland Trekking Company
  - Xanterra South Rim LLC

## Sunday, February 8

- 8:00 a.m. - 8:40 a.m. **Songs on the Wind: The wondrous variety of migrant songbirds at Grand Canyon** by Bryan Brown, Ph.D.
- 8:45 a.m. - 9:25 a.m. **Interesting Insects: Grand Canyon's fascinating entomology** with Dr. Larry Stevens
- 9:30 a.m. - 10:10 a.m. **Smitten by Stone: Why geologists saw paradise in the Grand Canyon where explorers saw only doom and gloom** by Wayne Ranney
- Break
- 10:20 a.m. - 10:50 a.m. **The Grand Canyon as Muse: Music, musicians, and the aesthetic power of this place** with Claire West, President, Grand Canyon Music Festival, Independent Consultant in the arts, and avid Canyon backpacker
- 10:55 a.m. - 11:30 a.m. **Grand Canyon National Park Backcountry Management Plan**
- 11:35 a.m. - 12:10 p.m. **Glen Canyon Dam: Construction 1963 and reconstruction 1983** with geologist, photographer, and author, Gary Ladd
- 12:10 p.m. - 12:55 p.m. **Break for Lunch**
- 1:00 p.m. - 1:35 p.m. **Just How Deep is the River Anyway? A remarkable bathymetric journey down the Colorado River** with Matt Kaplinski, NAU
- 1:40 p.m. - 2:10 p.m. **PSAR at the Canyon: So much more than four letters** with Emily Pearce and Joelle Baird, and Dr. Tom Myers
- Break
- 2:15 p.m. - 2:45 p.m. **Following the Flame: Fire ecology in forests of the Grand Canyon and Southwest** by Peter Z. Fulé Ph.D. School of Forestry, NAU
- 2:50 p.m. - 3:20 p.m. **Getting the Point: Chip stone tool technology through the millennia** with archaeologist Blayne Brown
- 3:25 p.m. - 3:55 p.m. **Interpreting Native American Sites and History: Techniques, stories, and tips to interpreting a culture not your own** with NPS Interpretive Ranger, Addie Partrick and Hopi Consultant, Lyle Balenquah
- 4:00 p.m. - 4:35 p.m. **Standing in the Blue-Green Light: Protection of Hopi Cultural Landscapes in Grand Canyon.** Focused discussion on the Hopi perspective of the confluence issue with Lyle Balenquah, Hopi Consultant, educator, and former NPS Archaeologist
- 4:40 p.m. - 5:00 p.m. **Specific updates for the 2014 season:**  
Law Enforcement, Concessions, Backcountry Information Office, and more will bring you all the updates you will need to be ready for the 2014 season
- 5:00 p.m. Closing comments by GCFI hosts and participant feedback at the Community Building

**Webpage –**  
[www.grandcanyon.org/2015gts](http://www.grandcanyon.org/2015gts)

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