

SESSION 1

Program Overview and Research at Lake Tahoe

Wednesday, June 17, 2009

LOCATION: Tahoe Center for Environmental Sciences, Room 141

- | | |
|----------------|---|
| 3:30-3:45 p.m. | Sign-in, name tags and distribute Docent Training Manuals |
| 3:45-4:00 p.m. | Introductions |
| 4:00-4:30 p.m. | Docent Program Information <i>Presentation by Heather Segale, Education and Outreach Coordinator</i> <ul style="list-style-type: none">• Docent program description – expectations, obligations, rights and privileges• Docent application• Docent opportunities• Docent contract |
| 4:30-4:45 p.m. | Short Break |
| 4:45-5:30 p.m. | History of Research at Lake Tahoe <i>Presentation by Dr. Charles R. Goldman, UC Davis</i> <ul style="list-style-type: none">• 40 Years of Research at Lake Tahoe• Noticing Changes at Lake Tahoe• Exporting the Sewer System• How scientific research impacts management decisions• Raising Funds to Support Research and Outreach• Questions and Answers |
| 5:30-6:15 p.m. | Lake Clarity Model and New Research <i>Presentation by Dr. S. Geoffrey Schladow, UC Davis Tahoe Environmental Research Center</i> <ul style="list-style-type: none">• Lake Clarity Modeling• Research at Lake Tahoe• Questions and Answers |
| 6:15-6:30 p.m. | Additional Question & Answer Session (<i>if time allows</i>) <ul style="list-style-type: none">• Lake Tahoe Facts• Frequently Asked Questions |

Session 2
Overview of Exhibits and Tour of TCES

Monday, June 22, 2009

LOCATION: Tahoe Center for Environmental Sciences, Room 141

3:30-6:30 p.m.

Overview of Exhibits of the Thomas J. Long Foundation Education Center
Presentation by Heather Segale, Education and Outreach Coordinator

- Major Talking Points of Each Exhibit
- Donor Wall & Tahoe Watershed Map
- The John Le Conte Research Vessel
- The Lab
- 3-D Visualization Lab
- Research in Action Wall
- Green Exhibits

SESSION 3
Working with Youth & Student Activities

Wednesday, June 24, 2009

LOCATION: Tahoe Center for Environmental Sciences, Assembly Room 141

- 3:30 – 4:00 p.m. Facilitating Education, Inquiry-Based Education and National Science Content Standards
Presentation by Heather Segale
- Docents as Educators
 - Drop-ins, Group tours, Tracking
 - Grade-level Curriculum
- 4:00 – 5:15 p.m. Student Activities
Presentation by Heather Segale, Artie Seelig, Rachel Spellman & Katie Webb
- Activity Menu
 - Formulating Questions
 - Various Activities
- 5:15 – 6:15 p.m. Working With Youth Audiences
Presentation by Christine McMorrow, Sierra Watershed Education Partnerships
- Tips and Tactics for Working With Youth
 - Things to Know About Working With Youth Audiences
 - The Scientific Thinking Process
 - Focus on Sixth Grades (5th through 7th)
 - Activity
- 6:15 – 6:30 p.m. Reflection
- Share what you have learned
 - Feedback
 - Questions?

SESSION 4

Lake Tahoe 101 and Geology of the Tahoe Basin

Wednesday, July 1, 2009

LOCATION: Tahoe Center for Environmental Sciences, Assembly Room 141

- 3:30-4:30 p.m. Lake of the Sky – The Story of Lake Tahoe
Presentation by David Antonucci, Civil & Environmental Engineer
- Geology and Formation of Lake Tahoe
 - Bathymetry of the Lake Bottom
 - Cultural and Environmental History
 - Limnology and Climate
 - Environmental Issues
- 4:30 – 5:30 p.m. Geology of the Lake Tahoe Basin
Presentation by Dr. Tom Bullard, Desert Research Institute
- How the Tahoe Basin was Formed
 - Distribution of Rock Types
 - Glacial History
 - Questions and Answers
- 5:30-6:30 p.m. Operating the Visualization Lab
- Equipment
 - Plate Tectonics
 - Lake Tahoe Digital Elevation Model
 - Practice Flying

SESSION 5

Field Research and Field Trip aboard the Research Vessel John Le Conte

Friday, July 10, 2008

9:00 a.m. boat ride.

LOCATION: Meet at Tahoe City Marina Boat Dock

8:55 a.m. Board the Research Vessel John Le Conte
Meet at the Tahoe City Marina boat dock (in front of Sierra Vista Restaurant, next to Boat Works Mall in downtown Tahoe City)

- Sign Liability Waivers

9:00 a.m. – 10:45 a.m. Research and Projects on Lake Tahoe
Field Trip led by Brant Allen, UC Davis Tahoe Environmental Research Center Boat Captain and Field Lab Director

- Secchi disk and other clarity measurements
- Plankton tow – Zooplankton of Lake Tahoe
- Visit the NASA & UC Davis Buoys
- Fisheries of Lake Tahoe (Native and Non-native fish)
- Lake Tahoe Food Web
 - Phytoplankton
 - Zooplankton
 - Fish
 - Changes in the Food Web

**Weather Dependent – If there is a “Lake Wind Advisory” or if wind speeds would create unsafe boating conditions, we would plan to reschedule the boat ride. Please check the local Tahoe City weather (zip code 96145) or visit the following weather website for wind details:*
<http://www.wunderground.com/cgi-bin/findweather/getForecast?query=tahoe+city%2C+ca>

HOMEWORK - ON YOUR OWN

1. Read Docent Training Manual
2. Visit for additional Education Center Tours (shadow other docents)
3. Visit for Green Building Tour (shadow other docents)
4. Visit for Field Trip (shadow field trip to learn rotations, activities, etc.)
5. Practice "Flying" 3-D Visualization Lab (operating the joystick)