



# CALIFORNIA FORESTRY CHALLENGE

www.forestrychallenge.org



Sierra Pacific Foundation  
Growing Healthy Communities...



**El Dorado Forestry Challenge**  
**October 26 to 29, 2016**  
**Leoni Meadows Camp**

# **2016 EL DORADO FORESTRY CHALLENGE**

## **SCHEDULE OF EVENTS**

### **Wednesday, October 26, 2016**

4:00 to 5:30	Registration and housing assignments
5:30 to 6:30	Dinner
6:45 to 8:00	Welcome and Focus Topic Question presented / Q&A
8:00 to 10:00	Dessert and Night Hike
10:30	Report to Dorms

### **Thursday, October 27, 2016**

8:00 to 8:45	Breakfast
8:45 to 9:00	Gather for Fieldtrip
9:00 to 12:00	Fieldtrip and Data Collection
12:00 to 1:00	Lunch
1:00 to 2:00	Group and School Photos
2:00 to 4:00	Zipline / Adventure Park OR Nature Center
4:00 to 5:00	Fieldtrip Data Review and Modeling
5:30 to 6:30	Dinner
7:00 to 10:00	Teams Prepare Presentations / "Ask a Forester" appointments
10:30	Report to Dorms

### **Friday, October 28, 2016**

8:00 to 8:45	Breakfast
8:55 to 9:00	Field Training Introduction
9:05 to 12:00	Field Training
12:00 to 1:00	Lunch
1:00 to 1:10	Assemble for Field Testing
1:10 to 1:30	Travel to First Testing Station
1:30 to 4:06	Forestry Field Test
4:06 to 4:30	Field Test Review – Turn in Vests
4:30 to 5:00	Free Time
5:00 to 5:30	Pacing Contest
5:30 to 6:30	Dinner
6:45 to 9:30	Teams Finish Preparing Presentations
9:30 to 10:30	Bonfire and Social Time
10:30	Report to Dorms

### **Saturday, October 29, 2016**

8:00 to 8:45	Breakfast
8:45 to 11:15	Teams pack up and clean dorms
8:15 to 9:00	Judges Orientation
9:15 to 11:10	Teams Give Presentations
11:20 to 11:45	Judging Panel Feedback to Students
11:45 to noon	Awards
Noon	Lunch and Farewell

## 2016 El Dorado Forestry Challenge Participants:

<u>School</u>	<u>County</u>	<u>Advisor(s)</u>	<u>Team #'s</u>
Argonaut	Amador	Shannon Clark	1
Bella Vista	Sacramento	Brian Maiolini	2
Cordova	Sacramento	Bret Harnden	3, 4
Don Pedro	Stanislaus	Katherine Kellogg	6, 7
El Dorado	El Dorado	Krista Potter	5
Foresthill	Placer	Katie Cantrell	8
Golden Sierra	El Dorado	Amara Smallwood	9
Grant	Sacramento	Arron White	10
Marysville	Sutter	Bonnie Magill	11
Ponderosa	El Dorado	Angela Personeni	12
Rosemont	Sacramento	Chesshuwa and Erik Beckett	13, 14, 15
Sac New Tech	Sacramento	Senna Vasquez, Christine Baker, Jerry Huang	16, 17, 18
Vista Del Lago	Sacramento	Kim Moore	19, 20



### Housing Assignments – Meadow Lodge

Boys: West Dorm (farthest from Dining Hall)

Girls: East Dorm (closest to Dining Hall)

Diane and Rika – Upstairs of Headquarters House

# **2016 California Forestry Challenge Rules**

1. Students enrolled in grades 9 through 12 are eligible to participate. Community college students may participate if the facility can accommodate them, as determined by the CFC coordinator.
2. Teams will consist of two to five students from the same school, home school, tribe, or scouting group. More than one team may enter from each school as space permits. There may be a need to restrict the maximum to 10 students per school. Requests to bring more than 10 students will be considered on a case-by-case basis.
3. An adult advisor must accompany each team. The advisor can be a teacher, staff member, or approved parent from that school. One advisor can supervise more than one team from the same school, as housing arrangements permit. If bringing only one adult, an additional adult of the opposite gender must be available on standby, to insure proper overnight supervision. Additional adults may be required to assure correct ratios, depending on the facility housing and school group size.
4. Schools that pre-register by May 31, 2016 will receive a 50% discount on the registration fees listed below. Schools that pre-register after May 31 will be expected to pay the registration fees listed below.
5. A completed registration form and registration fees must be received 12 days prior to the start of the event, unless prior arrangements have been made for delivery of payment at the beginning of an event. Registration fees must be paid for each person attending, including teachers and adult chaperones. Fees for advisors' infants and small children may be modified on a case-by-case basis.
6. Penalties for late payment are 10% of the invoice amount for every 30 days past due.
7. Registration fees and due dates are as follows:
  - Shasta FC fees are \$100 per person, due September 16
  - Sequoia FC fees are \$160 per person, due September 30
  - El Dorado FC fees are \$110 per person, due October 14
  - San Bernardino FC fees are \$150 per person, due October 28
  - Santa Cruz FC fees are \$170 per person, due November 4
8. Substitutions of the same gender are allowed up to the start of the event. However, there will be no refunds for students or advisors that cancel after the deadline, and registration fees for persons who do not attend will be held to cover 2017 registration fees.
9. Each participant must arrive with all applicable and signed Liability / Medical / Media Release Forms in order to participate. These forms must be turned in at registration, or received prior to the event.
10. Advisors and students will check in together, unless prior arrangements are made with the CFC Coordinator.
11. Team advisors must be on site with their students at all times and will be responsible to assure that team members display proper conduct during the event and at the host facility. Rules applicable to the host site will apply.
12. Participants will report any illness or personal emergency to the Coordinator or designated staff.
13. If participants break or damage property of the CFC or the host site, they are responsible for reporting the damage and paying for its repair.
14. All students must attend and fully participate in all scheduled activities.

15. Advisors must attend all activities in order to properly supervise students. However, advisors are not allowed to actively participate in field testing or focus topic presentation preparation.
16. The use of personal electronic devices such as cell phones and I-Pods for communication is prohibited except during free time or in the case of an emergency. The camera and calculator may be used during the fieldtrip and testing, respectively.
17. Students must report to and stay in their assigned cabins or dormitories at the designated time at the end of each day. Facility housing will be described in advance, and if it does not meet the needs of one or more students, the advisor must ask for alternate arrangements in advance of the start of the event.
18. No students or advisors are allowed to leave the host site without approval.
19. Tobacco, drugs, and alcohol are prohibited during all parts of the event.
20. Transportation to, from, and during an event will be the responsibility of each participating team, unless transportation is provided during an event.
21. The CFC has two parts: a Field Test and a Presentation. The two parts will be scored separately. The Field Test will be worth 60% and the Presentation will be worth 40% of the total score.
22. The Field Test will be comprehensive in nature, with many questions using props and tools such as tree specimens and forestry equipment. One test key will be provided for each school at the conclusion of the testing period, to be returned by the conclusion of the event. The CFC Coordinator or designee will be available to answer questions.
23. Test questions will be devised using the CFC Learning Objectives and Resource Packet materials as a guide, but are not necessarily limited to those items. Knowledge of basic ecological concepts and information presented during the field trip and field training may be tested as well.
24. Students will not be allowed to use their own reference materials during the Field Test. All materials needed during the Field Test, including identification keys, reference materials, and equipment, will be provided at the testing stations.
25. Any and all written and electronic materials teams bring to the event and gather while at the event may be used to prepare the Presentation. Laptop computers will be used, and there will be equal access to wireless internet. Hotspot devices will not be allowed unless being used to provide equal internet access to all teams.
26. Each team's Field Test and Presentation scores will be totaled, and overall place awards will be given accordingly. All participants will receive a Certificate of Participation.
27. Students and advisors will be asked to complete an evaluation form at the conclusion of the event.
28. Grievances must be submitted in writing to the Coordinator by the end of the review period immediately following the Field Test or the Presentation portion of the event. Grievances will be reviewed by the Coordinator, and discussed with involved judges and/or volunteers. The Coordinator's decisions are final.
29. CFC rules are subject to change by the Coordinator. Any and all changes will be explained in advance to all teams and advisors.
30. Any infraction of any of the CFC Rules could result in disqualification and/or dismissal from the event and the host site.

## **The Tom Eustis Memorial Award for Teaching Excellence**



EUSTIS, Thomas McLoughlin

The Tom Eustis Memorial Award for Teaching Excellence was established in 2006 to honor Thomas McLoughlin Eustis. Tom was born February 7, 1958 and passed away July 8, 2006. Tom graduated from Piedmont H.S. in 1976; Cal Berkeley with a B.S. in Forestry in 1981 and in 1984 received his Masters of Forestry from Oregon State. He worked for the U.S. Forest Service where he spent time fighting fires. He earned his teaching credential through Project Pipeline, and taught at C.K. McClatchy High School in Sacramento from 1999 to 2006. He was the coordinator of their Fire Science Program for five years, and participated in the California Forestry Challenge as a Team Advisor in 2003 and 2005. He was a dedicated supporter of the Forestry Challenge, and always a pleasure to have as a participant. Tom's positive attitude and laid back style will be missed.

### **Award Recipients:**

- 2006 - Scott Meyers, Grant High School
- 2007 - Katie Alling, Nevada Union High School
- 2008 – Larry Wright, Rio Vista High School
- 2009 – Christie Jouaneh, Napa New Tech High School
- 2010 – Suzanna Johnson, Colfax High School
- 2011 – Shannon Clark, Argonaut High School
- 2012 – Tony White, Elk Grove High School
- 2013 – Dr. Miriam Kaplan, Soquel High School
- 2014 – Carol Germano, Anderson New Tech High School
- 2015 – Angela Metcalfe, Anaheim High School
- 2016 - Randy Lund, Tulelake High School

## **The George Little Memorial Award for Volunteer Excellence**



The George Little Memorial Award for Volunteer Excellence was established in 2011. George was born on May 10 1939 and passed on June 19, 2011. He was a dedicated volunteer at the Forestry Challenge, assisting with field training and testing, even developing training materials.

George served in the US Navy from 1962 to 1966, and worked in the family business at Union Planing Mill in Stockton until 2002. Union Planing Mill, founded in 1891, was a lumber, moulding, fixture, and cabinet shop that employed up to 100 employees through the 1980's and 1990's. The business specialized in redwood moulding and custom work for clients including UC Berkeley North Gate and the William Randolph Hearst private estate in Wynton, Siskiyou County.

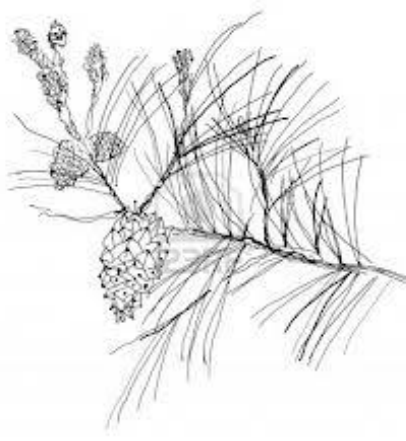
### **Award Recipients:**

- 2011 – Dennis Norgord, Website Manager (aka “Tech Angel”)
- 2012 – John Nicoles, Staff Forester Extraordinaire
- 2013 - David Van Lennep, Redwood Empire Forester
- 2014 – Katie Carlson, ANTHS grad and Forestry Challenge Alum
- 2015 – Mike Garcia, Fruit Growers Supply Co., Retired

## EXPANDED SCHEDULE FOR WEDNESDAY

### Wednesday, October 26, 2016

- 4:00 to 5:30 Registration – Leoni Lodge Lobby
- 5:30 to 6:30 Dinner – Clean Up: Cordova
- 6:45 to 7:00 Welcome – Cascades Room
- ❖ Please gather by 6:40
  - ❖ Bring Focus Topic Question, paper and pencil
- 7:00 to 8:00 Focus Topic Question presented
- 8:00 to 8:30 Dessert and Social Time – Steely Creek Lodge
- 8:30 to 9:15 Night Hike Teams 11-20
- 9:15 to 10:00 Night Hike Teams 1-10
- 10:30 Report to Dorms
- 11:00 Lights Out



## **EXPANDED SCHEDULE FOR THURSDAY**

### **Thursday, October 27, 2016**

- 8:00 to 8:45 Breakfast – Clean Up: Argonaut and Bella Vista
- 8:45 to 9:00 Gather for Fieldtrip at Meadow Lodge Parking Lot
- ❖ Bring Focus Topic Question, Camera, Paper, Clipboards, and Water Bottle
  - ❖ Wear field clothes (long pants and sturdy shoes)
- 9:00 to 12:00 Fieldtrip and data collection
- 12:00 to 1:00 Lunch – Clean Up: Don Pedro
- 1:00 to 2:00 Group and School Photos
- 2:00 to 4:00 Zipline and Adventure Zone OR Nature Center
- 4:00 to 5:00 Fieldtrip Data Review and Modeling – Cascades Room
- 5:30 to 6:30 Dinner – Clean Up: El Dorado and Golden Sierra
- 7:00 to 10:00 Students Prepare Presentations in Dining Hall
- ❖ Each team should use one table with space on all sides
  - ❖ Teachers may not sit at the table with their students
  - ❖ PCs should be used - wireless internet available
  - ❖ Students should not leave the Dining Hall without permission, except for Ask a Forester appointments
- 7:10 Introduction to “Ask a Foresters” in Dining Hall
- 7:20 to 9:45 Ask a Forester appointments – see next page
- 10:30 Report to Dorms
- 11:00 Lights out



## **“ASK A FORESTER” APPOINTMENT SCHEDULE**

Team Number	Appointment #1 Time	Ask a Forester Number	Appointment #2 Time	Ask a Forester Number
1	7:20	1	8:35	2
8	7:45	1	9:00	2
15	8:10	1	9:25	2
2	7:20	2	8:35	3
9	7:45	2	9:00	3
16	8:10	2	9:25	3
3	7:20	3	8:35	4
10	7:45	3	9:00	4
17	8:10	3	9:25	4
4	7:20	4	8:35	5
11	7:45	4	9:00	5
18	8:10	4	9:25	5
5	7:20	5	8:35	6
12	7:45	5	9:00	6
19	8:10	5	9:25	6
6	7:20	6	8:35	7
13	7:45	6	9:00	7
20	8:10	6	9:25	7
7	7:20	7	8:35	8
14	7:45	7	9:00	8
BYE	8:10	7	9:25	8

- Arrive a few minutes before your scheduled appointment time, and wait in the Leoni Lodge lobby for your appointment.
- Appointments are 20 minutes in length with a 5-minute break between appointments.
- Bring any materials with you that will help make your appointment productive.
- Any number of team members may go to the appointment.
- Advisors may not go to the appointment.

## **EXPANDED SCHEDULE FOR FRIDAY**

### **Friday, October 28, 2016**

- 8:00 to 8:45 Breakfast – Clean Up: Sac New Tech
- 8:55 to 9:00 Field Training Introduction
- ❖ Gather in front of Leoni Lodge
  - ❖ See Training Rotation Schedule for list of what to bring
- 9:05 to 12:00 Field Training – see rotation schedule on next page
- 12:00 to 1:00 Lunch – Clean Up: Vista del Lago
- 1:00 to 1:10 Assemble for Field Testing at Steely Creek Lodge
- 1:10 to 1:30 Travel to First Testing Station
- 1:30 to 4:06 Forestry Field Test- See Testing Rotation Schedule
- 4:06 to 4:30 Field Test Review – Turn in Vests
- 4:30 to 5:00 Free Time
- 5:00 to 5:30 Pacing Contest - Road between Steely Creek & Leoni Lodges
- 5:30 to 6:30 Dinner – Clean Up: Rosemont
- 6:45 to 9:30 Teams Finish Preparing Presentations –Dining Hall
- ❖ At 9:30, all teams must turn in their laptops
- 9:30 to 10:30 Bonfire – Transportation from Meadow Lodge parking lot  
(If rain, an alternative activity will be announced)
- 10:30 Report to Dorms
- 11:00 Lights Out

## FRIDAY A.M. FIELD TRAINING ROTATIONSCHEDULE

<b>Topic</b>	<b>Time</b>	<b>9:05 - 9:45</b>	<b>9:50 - 10:30</b>	<b>10:35 - 11:15</b>	<b>11:20 - 12:00</b>
Dichotomous Key		<b>Teams 1 - 5</b>	<b>Teams 16 - 20</b>	<b>Teams 11 - 15</b>	<b>Teams 6 - 10</b>
Angle Gauge, Basal Area		<b>Teams 6 - 10</b>	<b>Teams 1 - 5</b>	<b>Teams 16 - 20</b>	<b>Teams 11 - 15</b>
Diameter Tape Clinometer Biltmore Stick Volume Tables Market Values		<b>Teams 11 - 15</b>	<b>Teams 6 - 10</b>	<b>Teams 1 - 5</b>	<b>Teams 16 - 20</b>
Tree ID, Species Comp Survey		<b>Teams 16 - 20</b>	<b>Teams 11 - 15</b>	<b>Teams 6 - 10</b>	<b>Teams 1 - 5</b>

- Teams should assemble in front of Leoni Lodge no later than 8:50.
- Wear long pants and close-toed shoes.
- Bring your clipboard, training worksheet, calculator, and cruiser vest.
- Bring your Training Worksheets – one per team.
- You may bring study materials and paper with you for taking notes.



## FRIDAY P.M. FIELD TESTING ROTATIONSCHEDULE

<b>Time/ Station</b>	<b>1:30 to 2:06</b>	<b>2:15 to 2:46</b>	<b>2:55 to 3:31</b>	<b>3:40 to 4:06</b>
<b>Junction</b>	<b>Teams 1 - 5</b>	<b>Teams 16 - 20</b>	<b>Teams 11 - 15</b>	<b>Teams 6 - 10</b>
<b>Forest Road</b>	<b>Teams 6 - 10</b>	<b>Teams 1 - 5</b>	<b>Teams 16 - 20</b>	<b>Teams 11 - 15</b>
<b>Go Cart</b>	<b>Teams 11 - 15</b>	<b>Teams 6 - 10</b>	<b>Teams 1 - 5</b>	<b>Teams 16 - 20</b>
<b>Inbetween</b>	<b>Teams 16 - 20</b>	<b>Teams 11 - 15</b>	<b>Teams 6 - 10</b>	<b>Teams 1 - 5</b>

### Notes:

- \* Teams will have 36 minutes at each test station, with a 9 minute rotation period between each station. A total of 30 minutes will be allotted after lunch for teams to assemble and move to their first station.
- \* Teachers will travel in the same rotation with their team, but may not interact with team members at any time during the testing periods. They may, however, look at a blank copy of the test, provided by the person in charge of the test station.
- \* Teachers need to be aware of the route to the next station and will be responsible for getting their group of students there on time.
- \* Teams cannot use notes, written materials, or forestry tools except those issued with their cruiser vests or those given to them at the stations.
- \* Teams are responsible for bringing their own clipboard and calculator.
- \* At the end of the last rotation, one Test Key will be given the lead Advisor from each school for review. The test keys will be due back Friday evening at 9:30.
- \* Students will return their cruiser vests after testing.

## **Friday, 5:00 to 5:30 - Pacing Contest:**

The goal of this contest is to pace a 66 foot distance (one chain) without the use of any measuring device. To practice for this contest, mark a 66 foot distance on a sidewalk or parking lot. Stand with your heels on one line and walk with a comfortable step until your toes touch the other line. Once you know how many steps (or paces) you walk, try it without the lines. Then, measure your distance to see how close you are. Note: you will need to know how to do this anyway in order to measure trees using only a Biltmore stick.

Each school will be given two pieces of tape to mark the beginning and end of their chain with their school name. Each school gets one entry. The school that can pace a distance closest to one chain (over or under) wins the contest, and takes possession of the highly coveted “board foot” traveling trophy.

### **El Dorado Forestry Challenge**

#### **Champions**

2003 – Nevada Union High School  
2004 – Rio Vista High School  
2005 – Elk Grove High School  
2006 – Foresthill High School  
2007 – Napa New Technology H.S.  
2008 – Ponderosa High School FFA  
2009 – Ponderosa High School FFA  
2010 – Franklin High School  
2011 – Ponderosa High School APES  
2012 – Ponderosa High School FFA  
2013 – Franklin High School  
2014 – Amador High School  
2015 – Bella Vista High School

#### **Pacing Contest Winners:**

2004 – Amador High School  
2005 – Nevada Union High School  
2006 – Grant High School  
2007 – Napa New Technology H.S.  
2008 – Vista del Lago High School  
2009 – Foresthill High School  
2010 – Franklin High School  
2011 – Ponderosa High School APES  
2012 - Franklin High School  
2013 – Santa Maria High School  
2014 – Marysville High School  
2015 – Marysville High School

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# EXPANDED SCHEDULE FOR SATURDAY

## Saturday, October 29, 2016

- 8:00 to 8:45      Breakfast – Clean Up: Grant and Marysville
- 8:45 to 11:15    Teams pack up and clean dorms when not presenting
- 8:15 to 9:00      Judges Orientation – Cascades Room  
                      ❖ For Judges and Timekeepers only
- 9:15 to 11:10    Teams Give Presentations in Meadow Lodge  
                      ❖ All teams turn in press releases,  
                          thank you notes, and evaluation forms

Location	Time	9:15 to 9:40	9:45 to 10:10	10:15 - 10:40	10:45 – 11:10
Room 110		1	2	3	4
Room 112		5	6	7	8
Room 113		9	10	11	12
Room 114		13	14	15	16
Room 116		17	18	19	20

(The numbers in the grid are team numbers.)

- 11:20 to 11:45    Judging Panel Feedback to Students – Cascades Room
- 11:45 to 12:00    Awards – Cascades Room
- 12:00              Lunch and Farewell – Clean Up: Ponderosa and Foresthill

### Notes:

- \* If your presentation time is not suitable, you are free to trade with another team if both agree. Just let me know.
- \* Teachers and parents may listen to their own team's presentation(s), but may not listen to other teams.
- \* Each presentation room will have three judges and a timekeeper
- \* The timekeeper will start timing when the presentation begins and show 5 and 1 minute warning cards.
- \* The timekeeper will stop the presentation when time is up, even if the team is not finished.
- \* The timekeeper will time the 5 minute question and answer period, with a 1 minute warning.
- \* Teams are encouraged to give their presentation at school and in the community.
- \* All teams will attend a review session in the Cascades Room from 11:20 to 11:45, where the judges will provide feedback to the teams, after which the awards will be presented.

# **Thank You to the 2016 El Dorado Forestry Challenge Volunteers**

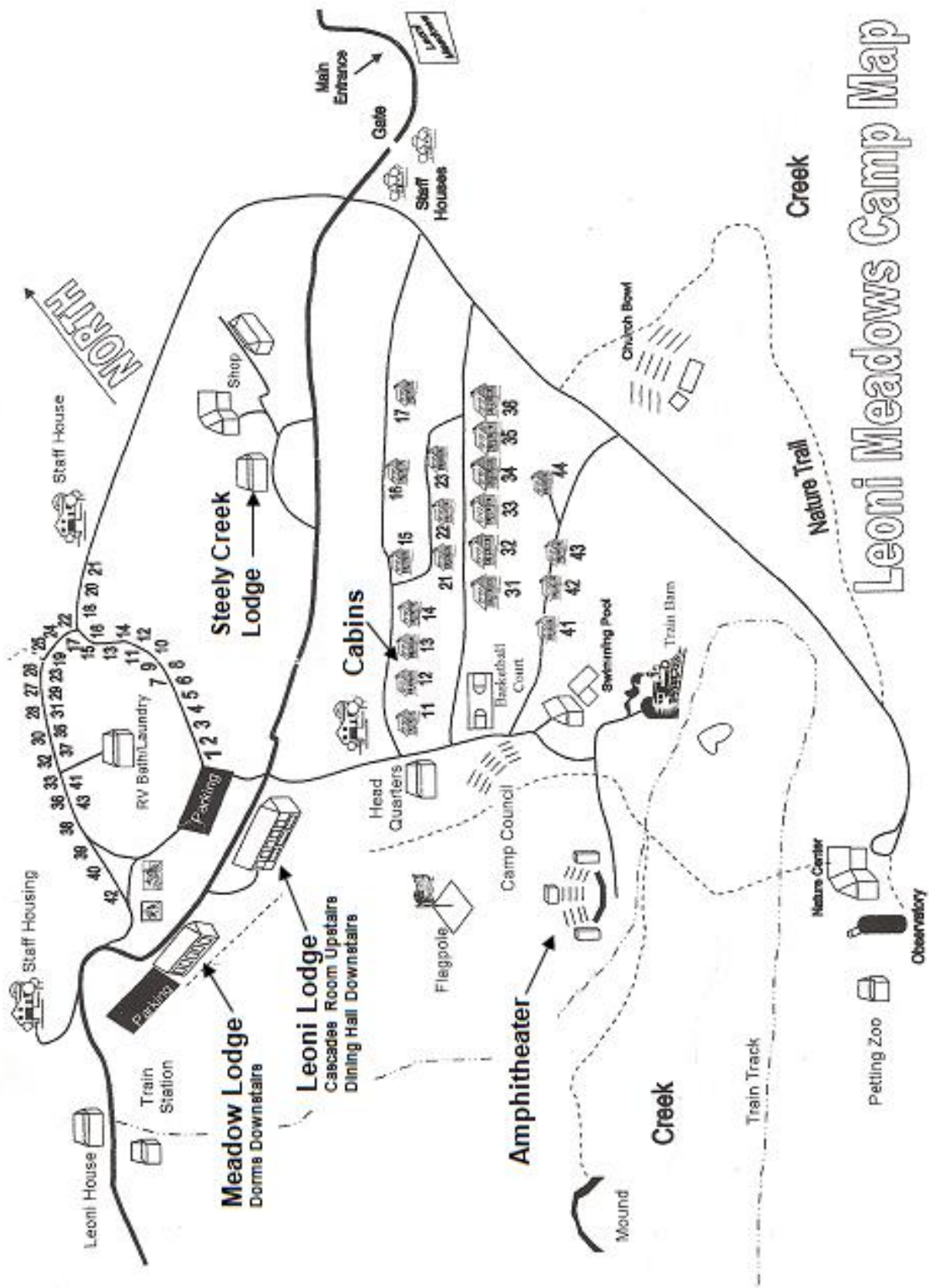
Without volunteers, the Forestry Challenge simply wouldn't happen. Here are the individuals who gave their time and expertise for this event:

Alex Stone	Kevin Vella
Ariel Thomson	Marina Neill
Bob Broderick	Mark Stewart
Carlan Meyer	Michael Ranali
Chris Dow	Mike Garcia
Claire Frost	Natalie Perez
Connie Zelinsky	Nohely Alcala
David Zelinsky	Paige Mack
David Springe	Pat Ferrell
Dennis Norgord	Patrick McDaniel
Deseray Hendrickson	Peggy Blair
Ernie Lory	Rebecca Boulden
Gary Britner	Rich Wade
Jennifer Von Aesch	Rick Hopson
Jerry Beckett	Rika Piercy
Joe King	Robert Little
Johanna Call	Steve DeBenedet
John Nicoles	Terry Hendrickson
Kelsey Vella	Tim Treichelt
Kelsi Sozzi	Todd Neill
Kevin Broderick	Tom Francis
Kevin Conway	

## **A Note About our Sponsors:**

In addition to the sponsors on the front cover of this booklet, many more companies, organizations, and individuals contributed. They are:

Bordges Timber	Mendocino Redwood Company
Bill Denison	Pete Johnson
CTL Forest Management	Pacific Gas & Electric Company
Crane Mills	Placer County RCD
Hancock Forest Management	Rich Wade
Headrick Logging	Robert Dalton Trucking
Humboldt Redwood Company	Sierra Forest Products
J & R Logging	Sierra Resource Management
Joe Thornton Logging	Soper Wheeler
Mark Crawford Logging	Tatum Tree Management
Mendoboldt Logging	Timothy M. Cary & Associates
	United Wholesale Lumber Company



# Leoni Meadows Camp Map