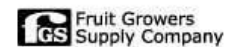




FORESTRY CHALLENGE



Mary A. Crocker
TRUST



Robert Dalton, Inc.



www.forestrychallenge.org

El Dorado Forestry Challenge
October 24 to 27, 2018
Leoni Meadows Camp

2018 EL DORADO FORESTRY CHALLENGE
SCHEDULE OF EVENTS

Wednesday, October 24, 2018

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 25, 2018

8:00 to 8:45 Breakfast
 8:55 to 9:00 Gather for Field Training
 9:05 to 12:00 Field Training
 12:00 to 1:00 Lunch
 1:00 to 1:15 Gather for Fieldtrip
 1:30 to 5:00 Fieldtrip and Data Collection
 5:30 to 6:30 Dinner
 6:30 to 7:00 Data Review
 7:00 to 10:30 Teams Prepare Presentations / Ask a Forester appointments
 10:30 Report to Dorms

Friday, October 26, 2018

Time	Teams 1-15	Teams 16-31
8:00 to 8:45	Breakfast	
8:45 to 9:00	Gather and Travel to Field Testing	Ropes Course & Train / Free Time
9:15 to 12:10	Field Testing	School Photos / Pacing Contest
12:15 to 1:00	Lunch	
1:00 to 1:30	Group Photo	
1:30 to 1:45	Ropes Course & Train / Free Time	Gather and Travel to Field Testing
2:00 to 4:55	School Photos / Pacing Contest	Field Testing
5:15 to 5:30	Test Keys Distributed	
5:30 to 6:30	Dinner	
7:00 to 9:30	Teams Finish Preparing Presentations	
9:30 to 10:30	Free Time – Campfire (conditions permitting)	
10:30	Report to Dorms	

Saturday, October 27, 2018

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

2018 El Dorado Forestry Challenge Participants:

School	County	Advisor(s)	Team #'s
Amador	Amador	Ryan Mendosa	1
Cordova	Sacramento	Bret Harnden	5, 6
Del Oro	Placer	Nic Russo	9
El Dorado	El Dorado	Krista Potter, Daren Mullins	24, 25, 26
Eleanor Roosevelt	Tulare	Jeff Alexander, Michele Whitney	7, 8
Folsom	Sacramento	Mary Johnston, Zachary Kamine	10, 11
Foresthill	Placer	Katie Cantrell	12, 13
Golden Sierra	El Dorado	Amara Smallwood	14, 15
Grant	Sacramento	Arron White, Kyle McDaniel	16, 17, 18, 19
Mira Loma	Sacramento	Colleen Kelly	20
Mountain Oaks	Calaveras	Andrew Oneto	21
Ponderosa	El Dorado	Angela Personeni, Brian Staller	2, 3, 4
Sac New Tech	Sacramento	Senna Vasquez, Christine Baker, Jerry Huang	28, 29, 30, 31
Summerville	Tuolumne	Katherine Kellogg	22, 23
Vista Del Lago	Sacramento	Miranda Ayad	27

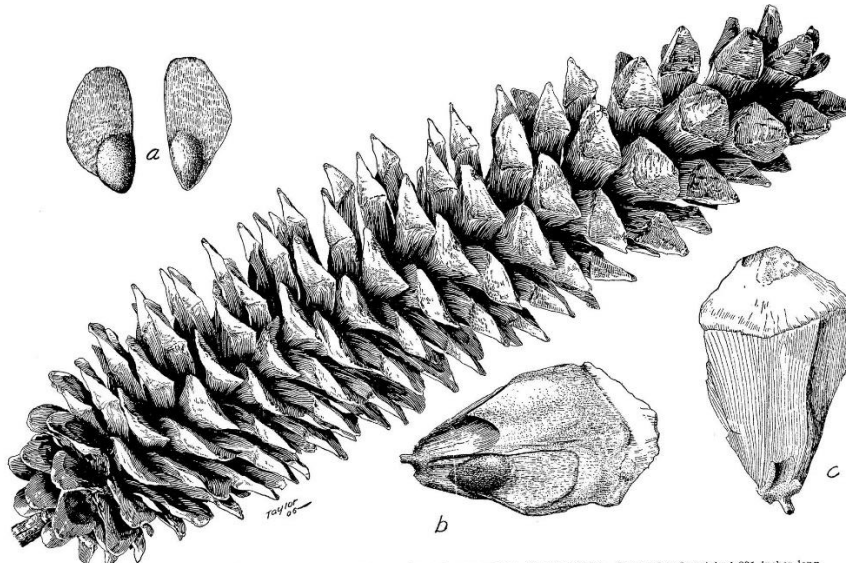


FIG. 4.—*Pinus lambertiana*: a, seed; b, c, upper and lower views of cone scales—all natural size. Cone reduced; original 23½ inches long.

Housing Assignments – Meadow Lodge Dorms

Boys (except ED/Pondo): West Dorm (farthest from Dining Hall)

Girls (except ED/Pondo): East Dorm (closest to Dining Hall)

El Dorado and Ponderosa: Campground

Diane, Ranae, and Rika – Upstairs of Headquarters House

2018 California Forestry Challenge Rules

1. Students enrolled in grades 9 through 12 are eligible to participate. Community college students and 8th graders may participate if the facility can accommodate them, as determined by the FC 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, 2018 will receive a 30% 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 (available online) must be received 12 days prior to the start of the event.
6. Registration fees are due upon arrival to the event and 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.
7. Registration fees and due dates are as follows:
 - Shasta FC fees are \$105 per person, due September 26
 - Santa Cruz FC fees are \$185 per person, due October 10
 - El Dorado FC fees are \$120 per person, due October 24
 - San Bernardino FC fees are \$160 per person, due November 7
8. Student 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 ~~may~~ will be held to cover 2019 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 FC 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 FC 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. Although advisors must attend all activities in order to properly supervise students, they 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. Phone cameras may be used during the fieldtrip.
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 FC 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 end of the testing day. The FC Coordinator or designee will be available to answer questions.
23. Test questions will be devised using the FC Learning Objectives and reference materials linked to the Objectives 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. Students will not be allowed to review presentation notes once the first presentation period begins and may be asked to gather in one area to verify that they do not have access to presentation notes or images of such on their phones.
27. 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.
28. Students may attend more than one regular event during the fall season. If a team with one or more repeating students places in the top 5, that team will not displace a team that is competing for the first time that season.
29. Students and advisors will be asked to complete an evaluation form at the conclusion of the event.
30. Grievances must be submitted in writing to the FC 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.
31. FC rules are subject to change by the Coordinator. Any and all changes will be explained in advance to all teams and advisors.
32. Any infraction of any of the FC Rules could result in disqualification and/or dismissal from the event and the host site.

The Tom Eustis Memorial Award for Teaching Excellence

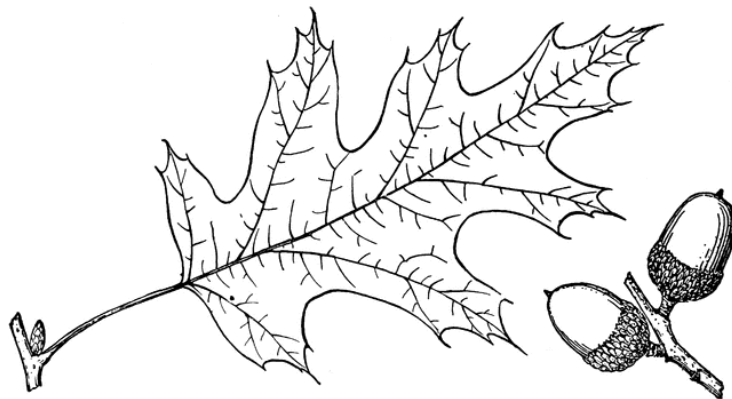


EUSTIS, Thomas McLoughlin

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:

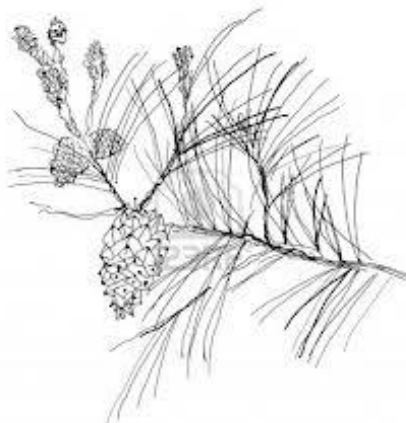
- 2006 - Scott Meyers, Grant High School
- 2007 - Katie Alling, Nevada Union High School
- 2008 – Larry Wright, Rio Vista High School
- 2009 – Christie Jouaneh, Napa New Tech High School
- 2010 – Suzanna Johnson, Colfax High School
- 2011 – Shannon Clark, Argonaut High School
- 2012 – Tony White, Elk 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
- 2017 – Arron White, Grant High School



EXPANDED SCHEDULE FOR WEDNESDAY

Wednesday, October 24, 2018

- 4:00 to 5:30 Registration – Leoni Lodge Lobby
- 5:30 to 6:30 Dinner – Serve and Clean Up: El Dorado & Del Oro
- 6:50 to 7:00 Welcome – Cascades Room
- ❖ Please gather by 6:45
 - ❖ Bring Focus Topic Question, paper and pencil
- 7:00 to 8:00 Focus Topic Question presented
- 8:00 to 8:30 Break
- 8:30 to 9:30 Night Hike Teams 1–15, Go Karts/Ice Cream Teams 16-31
- 9:30 to 10:30 Night Hike Teams 16–31, Go Karts/Ice Cream Teams 1-15
- 10:30 Report to Dorms
- 11:00 Lights Out



EXPANDED SCHEDULE FOR THURSDAY

Thursday, October 25, 2018

- 8:00 to 8:45 Breakfast – Serve and Clean Up: Mtn Oaks & Vista Del Lago
- 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
- 12:00 to 1:00 Lunch – Serve and Clean Up: Cordova & ERCLC
- 1:00 to 1:15 Gather for Fieldtrip at Steely Creek Lodge
- ❖ Bring Focus Topic Question, Camera, Paper, Clipboards, and Water Bottle
 - ❖ Wear jeans and boots
- 1:30 to 5:00 Field Trip / Data Collection
- 5:00 to 5:30 Break
- 5:30 to 6:30 Dinner – Serve and Clean Up: Sac New Tech
- 6:30 to 7:00 Data Review and PowerPoint Design – Cascades Room
- 7:00 to 10:30 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 – schedule provided at 7:00
- 10:45 Report to Dorms
- 11:00 Lights out

THURSDAY A.M. FIELD TRAINING ROTATION SCHEDULE

Topic	Time	9:05 - 9:45	9:50 - 10:30	10:35 - 11:15	11:20 - 12:00
Dichotomous Key / Maps		Teams 1 - 8	Teams 24 - 31	Teams 16 - 23	Teams 9 - 15
Angle Gauge, Basal Area / Tree ID, Species Composition		Teams 9 - 15	Teams 1 - 8	Teams 24 - 31	Teams 16 - 23
Diameter Tape, Clinometer / Volume Tables Market Values		Teams 16 - 23	Teams 9 - 15	Teams 1 - 8	Teams 24 - 31
Pacing, Biltmore Stick / Compass, Site Class		Teams 24 - 31	Teams 16 - 23	Teams 9 - 15	Teams 1 - 8

- Teams should assemble in front of Leoni Lodge no later than 8:55.
- Wear long pants and close-toed shoes.
- Bring your clipboard, pencil(s), and calculator.
- Training Worksheets will be handed out at the first station.
- You may bring study materials and paper with you for taking notes.



EXPANDED SCHEDULE FOR FRIDAY

Friday, October 26, 2018

Time	Teams 1 - 15	Teams 16 - 31
8:00 to 8:45	Breakfast – Teams testing in AM, get in line first Serve and Clean Up: Folsom & Amador	
8:45 to 9:00	Gather at Leoni Lodge Parking Lot for Travel to Testing Area	School Photos Pacing Contest Ropes Course & Train / Free Time
9:15 to 12:10	Field Testing	
12:15 to 1:00	Lunch - Serve and Clean Up: Foresthill & Summerville	
1:00 to 1:30	Group Photo	
1:30 to 1:45	School Photos Pacing Contest Ropes Course & Train / Free Time	Gather at Leoni Lodge Parking Lot for Travel to Testing Area
2:00 to 4:55		Field Testing
5:15 to 5:30	Test Keys Distributed – Outside Steely Creek Lodge	
5:30 to 6:30	Dinner- Serve and Clean Up: Grant	
7:00 to 9:30	Teams Finish Preparing Presentations – Dining Hall ❖ By 9:30 all teams must turn in their laptops	
9:30 to 10:30	Campfire – Conditions Permitting, Location TBD	
10:30	Report to Dorms	
11:00	Lights Out	

FRIDAY FIELD TESTING ROTATION SCHEDULE

Morning

Time Station	9:15 to 9:55	10:00 to 10:40	10:45 to 11:25	11:30 to 12:10
Parking Lot	Teams 1 2 3 4	Teams 12 13 14 15	Teams 9 10 11	Teams 5 6 7 8
Campground	Teams 5 6 7 8	Teams 1 2 3 4	Teams 12 13 14 15	Teams 9 10 11
Out of Bounds	Teams 9 10 11	Teams 5 6 7 8	Teams 1 2 3 4	Teams 12 13 14 15
Teeter Totter	Teams 12 13 14 15	Teams 9 10 11	Teams 5 6 7 8	Teams 1 2 3 4

Afternoon

Time Station	2:00 to 2:40	2:45 to 3:25	3:30 to 4:10	4:15 to 4:55
Parking Lot	Teams 16 17 18 19	Teams 28 29 30 31	Teams 24 25 26 27	Teams 20 21 22 23
Campground	Teams 20 21 22 23	Teams 16 17 18 19	Teams 28 29 30 31	Teams 24 25 26 27
Out of Bounds	Teams 24 25 26 27	Teams 20 21 22 23	Teams 16 17 18 19	Teams 28 29 30 31
Teeter Totter	Teams 28 29 30 31	Teams 24 25 26 27	Teams 20 21 22 23	Teams 16 17 18 19

Important Information about Field Testing:

- * Testing stations will be 40 minutes each with 5 minute rotations in between.
- * 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 testing proctor(s).
- * 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 given to them at the stations.
- * Teams are responsible for bringing their own clipboard and calculator.
- * Students will return all tools before moving to the next testing station.

At the end of all testing, one Test Key will be provided for each school for review, and participants will have an opportunity to revisit the stations if there are any questions. The test keys will be due back Friday at 9:30 p.m.

Friday During Free Time - 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
2016 – Vista Del Lago High School
2017 – Sac New Tech 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
2016 – Sac New Tech High School
2017 – Golden Sierra High School

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USDA is an equal opportunity provider and employer.

EXPANDED SCHEDULE FOR SATURDAY

Saturday, October 27, 2018

- 8:00 to 8:45 Breakfast – Serve and Clean Up: Ponderosa
- 8:15 to 9:00 Judges Orientation – Cascades Room
 ❖ For Judges and Facilitators only
- 9:15 to 11:10 ALL TEAMS – Report to Cascades Room OR first round of presentations
 ❖ Room assignments distributed Friday evening
 ❖ All teams must turn in press releases, thank you notes, and evaluation forms before leaving Cascades Room.
- 11:25 to 11:45 Judging Panel Feedback to Students – Amphitheater
- 11:45 to 12:00 Awards – Amphitheater
- 12:00 Lunch and Farewell – Serve and Clean Up: Golden Sierra & Mira Loma

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 presentation facilitator.
- * The facilitator will start timing when the presentation begins and show 5 and 1 minute warning cards.
- * The facilitator will stop the presentation when time is up, even if the team is not finished.
- * The facilitator 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 at the Amphitheater from 11:25 to 11:45, where the judges will provide feedback to the teams, after which the awards will be presented.

Thank You to the 2018 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:

Allen Speering
Andrew Lakota
Audrey Evans
Bob Broderick
Bob Graton
Charles Wiglesworth
Chris Dias
Dan Cullinane
Dana Walsh
Danielle Kelly
David Von Aspen
David Zelinsky
Emilia Soprani
Emily Hudson

Ernie Lory
Jack Harvey
James Woodside
Jill Engelmann
John Nicoles
Joyce Everett
Kevin Conway
Len Nielson
Lisa Worthington
Luke Wagner
Mark Stewart
Matt Waverly
Michael Raffety
Michele Whitney

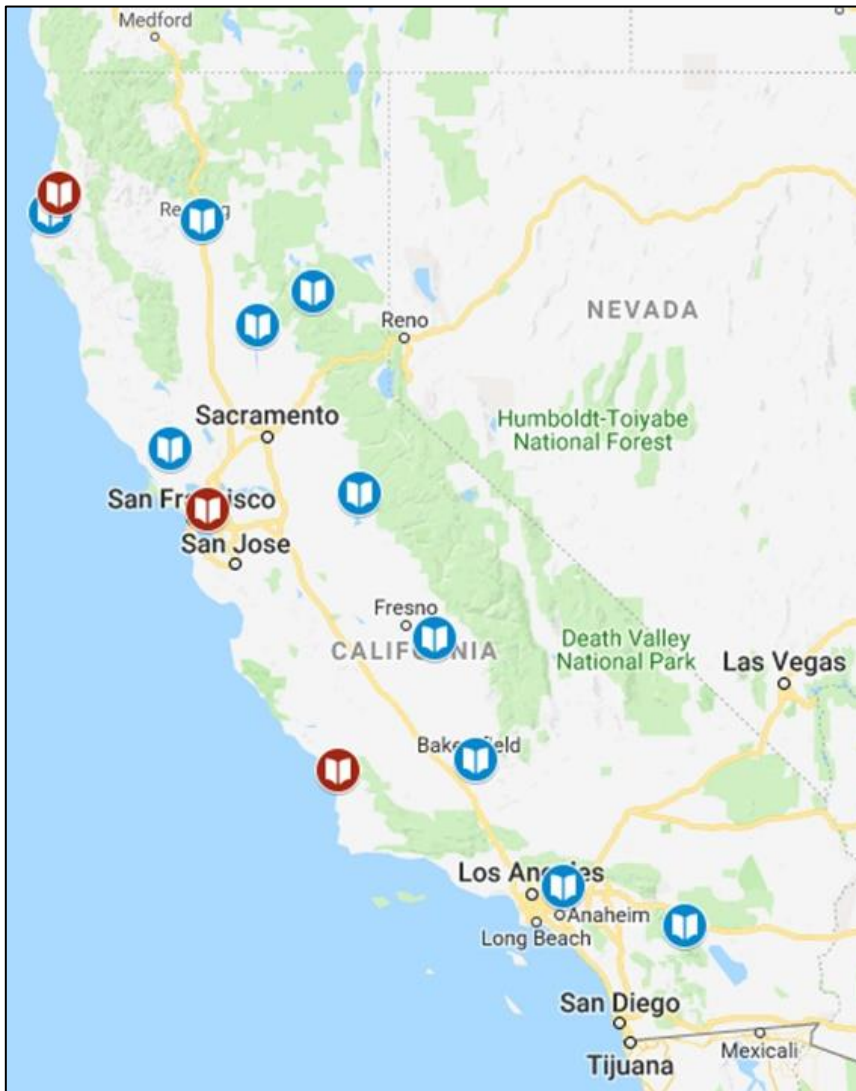
Nikki Oneto
Pat Ferrell
Phil Mosbacher
Phil Hartvig
Rich Wade
Rick Williams
Ricky Shurtz
Robert Little
Robin Clark
Sophie Cabrera
Steve Brink
Sue Mosbacher
Tim Treichelt
Tom Francis

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:

California Licensed Foresters Association
Crane Mills
CTL Forest Management
Emerson Logging
Hancock Forest Management
Joe Thornton Logging
Matt Waverly
Placer County RCD
Sierra Resource Management
W. Thomas Veal Jr. DDS

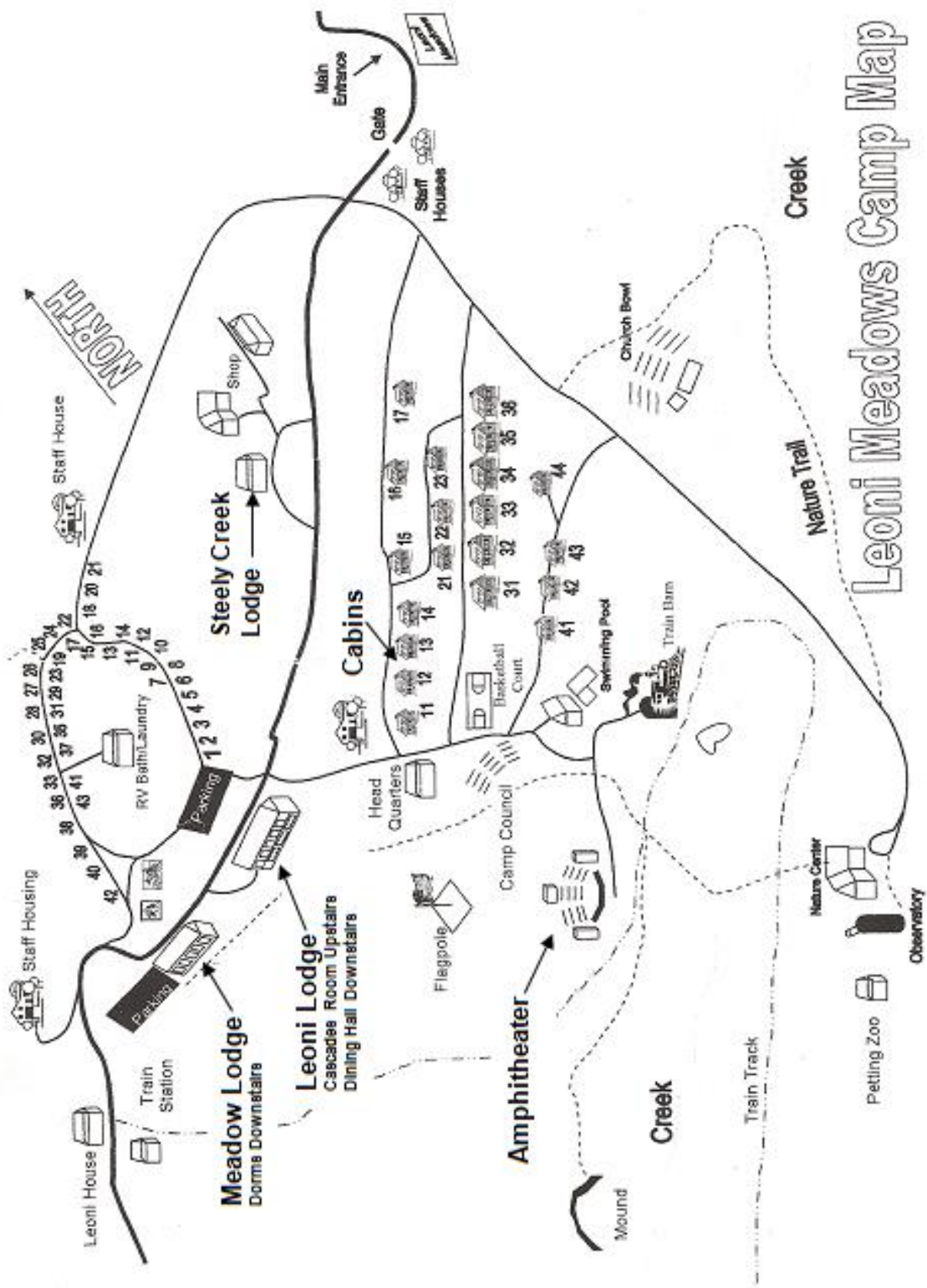
Forestry Challenge Initiative to Promote College and Career Readiness



Hey Teachers! We've done a lot of information gathering recently in order to provide a well-rounded list of college and career options for students to explore in forestry and natural resources. Our website has been updated with an interactive map of colleges with forestry programs and videos about professions in the industry. The first person to read this sentence and let Ranae know they've read it will receive a free book. We've also established a College and Career newsletter, to be sent out quarterly, with information on college programs, career opportunities, and feature

stories on current college students and young people out in the field. There will be a sign-up sheet for students who would like to subscribe. It will be available near the college and career brochure display.

In addition to this, each year, Redwood Empire, a division of Pacific States Industries and the Burch Family, awards scholarships to assist students who plan to obtain a college degree in Forestry and participated in one or more Forestry Challenge events. Recipients must be enrolled in a program that leads to a degree in Forestry or a closely related field. The 2018 recipient is Johanna Call, a student at Shasta College pursuing her Associate of Science in Forestry.



Leoni Meadows Camp Map