

Robert Dalton, Inc.



**El Dorado Forestry Challenge
October 25 to 28, 2017
Leoni Meadows Camp**

2017 EL DORADO FORESTRY CHALLENGE SCHEDULE OF EVENTS

Wednesday, October 25, 2017

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 26, 2017

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 / Data Review
5:30 to 6:30	Dinner
6:30 to 10:30	Teams Prepare Presentations / Ask a Forester appointments
10:30	Report to Dorms

Friday, October 27, 2017

Time	Teams 14-26	Teams 1-13
8:00 to 8:45	Breakfast	
8:45 to 9:15	Gather and Travel to Field Testing	Ropes Course & Zipline / Free Time School Photos
9:15 to 12:10	Field Testing	
12:15 to 1:00	Lunch	
1:00 to 1:30	Group Photo	
1:30 to 2:00	Ropes Course & Zipline / Free Time	Gather and Travel to Field Testing
2:00 to 4:55	School Photos	Field Testing
4:55 to 5:10	Turn in Vests, Test Keys Distributed	
5:10 to 5:30	Pacing Contest	
5:30 to 6:30	Dinner	
7:00 to 9:30	Teams Finish Preparing Presentations	
9:30 to 10:30	Campfire	
10:30	Report to Cabins	

Saturday, October 28, 2017

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

2017 El Dorado Forestry Challenge Participants:

School	County	Advisor(s)	Team #'s
Argonaut	Amador	Shannon Clark	1
Cordova	Sacramento	Bret Harnden	2, 3
Don Pedro	Stanislaus	Katherine Kellogg, Michael Fisher	4, 5
Eleanor Roosevelt	Tulare	Michele Whitney, Gerald Smythe	6
Foresthill	Placer	Katie Cantrell	7
Golden Sierra	El Dorado	Amara Smallwood	8, 9
Grant	Sacramento	Arron White, Kyle McDaniel	11, 12, 13
Independence	El Dorado	Tracy Roll, Chris Diaz	10
Mountain Oaks	Calaveras	Andrew Oneto, Debbie Blankenship	14, 15
Sac New Tech	Sacramento	Senna Vasquez, Christine Baker, Jerry Huang	16, 17, 18
Santa Rosa J.C.	Sonoma	Kasey Wade	21 - 26
Vista Del Lago	Sacramento	Miranda Ayad	19, 20



Housing Assignments – Meadow Lodge

Boys (except Grant): West Dorm (farthest from Dining Hall)

Girls: East Dorm (closest to Dining Hall)

Grant Boys and Male Advisors: Cabin 11

Santa Rosa Junior College: Cabins 12, 13, 14, 15

Diane and Rika – Upstairs of Headquarters House

2017 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 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, 2017 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 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 of 10% of the invoice amount may be assessed for every 30 days past due.
7. Registration fees and due dates are as follows:
 - Shasta FC fees are \$105 per person, due September 15
 - Sequoia FC fees are \$150 per person, due September 29
 - El Dorado FC fees are \$110 per person, due October 13
 - San Bernardino FC fees are \$155 per person, due October 27
 - Santa Cruz FC fees are \$180 per person, due November 3
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 be held to cover 2018 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. 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 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.
29. FC 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 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

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
- 2016 - Nikki Visser, Event cook for El Dorado FC

EXPANDED SCHEDULE FOR WEDNESDAY

Wednesday, October 25, 2017

- 4:00 to 5:30 Registration – Leoni Lodge Lobby
- 5:30 to 6:30 Dinner – Serve and 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 1 - 10
- 9:15 to 10:00 Night Hike Teams 11 - 20
- 10:30 Report to Dorms
- 11:00 Lights Out



EXPANDED SCHEDULE FOR THURSDAY

Thursday, October 27, 2017

- 8:00 to 8:45 Breakfast – Serve and Clean Up: Argonaut
- 8:55 to 9:00 Field Training Introduction
- ❖ Gather in front of Leoni Lodge Parking Lot
 - ❖ 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: Vista del Lago
- 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 4:00 Field Trip / Data Collection
- 4:30 to 5:00 Data Review and PowerPoint Design – Cascades Room
- 5:30 to 6:30 Dinner – Serve and Clean Up: Golden Sierra
- 6:30 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 – see page after next
- 10:30 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, Map and Compass		Teams 1 - 5	Teams 16 - 20	Teams 11 - 15	Teams 6 - 10
Angle Gauge, Basal Area, Stocking		Teams 6 - 10	Teams 1 - 5	Teams 16 - 20	Teams 11 - 15
Diameter Tape Clinometer Biltmore Stick Volume Tables Market Values		Teams 11 - 15	Teams 6 - 10	Teams 1 - 5	Teams 16 - 20
Tree ID, Species Comp Survey, Site Class		Teams 16 - 20	Teams 11 - 15	Teams 6 - 10	Teams 1 - 5

- Teams should assemble in front of Leoni Lodge no later than 8:55.
- 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.



“ASK A FORESTER” APPOINTMENT SCHEDULE

<u>Team Number</u>	<u>Appointment Time</u>	<u>Ask a Forester</u>	<u>Appointment Time</u>	<u>Ask a Forester</u>
1	7:15	1	8:30	2
10	7:40	1	8:55	2
19	8:05	1	9:20	2
2	7:15	2	8:30	3
11	7:40	2	8:55	3
20	8:05	2	9:20	3
3	7:15	3	8:30	4
12	7:40	3	8:55	4
21	8:05	3	9:20	4
4	7:15	4	8:30	5
13	7:40	4	8:55	5
22	8:05	4	9:20	5
5	7:15	5	8:30	6
14	7:40	5	8:55	6
23	8:05	5	9:20	6
6	7:15	6	8:30	7
15	7:40	6	8:55	7
24	8:05	6	9:20	7
7	7:15	7	8:30	8
16	7:40	7	8:55	8
25	8:05	7	9:20	8
8	7:15	8	8:30	9
17	7:40	8	8:55	9
26	8:05	8	9:20	9
9	7:15	9	8:30	1
18	7:40	9	8:55	1
BYE	8:05	9	9:20	1

Notes:

- Appointment locations will be announced during introductions at 7:10 p.m.
- Appointments are 20 minutes in length
- Arrive a few minutes before your scheduled appointment time.
- Bring any materials with you that will help make your appointment productive.
- Two or more team members go to the appointment.
- Advisors may not go to the appointment.

EXPANDED SCHEDULE FOR FRIDAY

Friday, October 26, 2017

Time	Teams 14 - 26	Teams 1-13
8:00 to 8:45	Breakfast – Teams testing in AM, get in line first Serve and Clean Up: Eleanor Roosevelt	
8:45 to 9:15	Gather at Meadow Lodge Parking Lot for Travel to Testing Area	Ropes Course & Zipline / Free Time School Photos
9:15 to 12:10	Field Testing	
12:15 to 1:00	Lunch - Serve and Clean Up: Santa Rosa Junior College	
1:00 to 1:30	Group Photo	
1:30 to 2:00	Ropes Course & Zipline / Free Time School Photos	Gather at Meadow Lodge Parking Lot for Travel to Testing Area
2:00 to 4:55		Field Testing
4:55 to 5:10	Turn in Vests, Test Keys Distributed – Dorm Lobby	
5:10 to 5:30	Pacing Contest Road between Meadow Lodge and 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	Bonfire – Transportation from Meadow Lodge parking lot	
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
Fire Circle	Teams 16 17 18	Teams 24 25 26	Teams 21 22 23	Teams 14 15 19 20
Junction	Teams 14 15 19 20	Teams 16 17 18	Teams 24 25 26	Teams 21 22 23
Frontier Town	Teams 21 22 23	Teams 14 15 19 20	Teams 16 17 18	Teams 24 25 26
Challenge Course	Teams 24 25 26	Teams 21 22 23	Teams 14 15 19 20	Teams 16 17 18

Afternoon

Time Station	2:00 to 2:40	2:45 to 3:25	3:30 to 4:10	4:15 to 4:55
Fire Circle	Teams 1 2 3	Teams 10 11 12 13	Teams 7 8 9	Teams 4 5 6
Junction	Teams 4 5 6	Teams 1 2 3	Teams 10 11 12 13	Teams 7 8 9
Frontier Town	Teams 7 8 9	Teams 4 5 6	Teams 1 2 3	Teams 10 11 12 13
Challenge Course	Teams 10 11 12 13	Teams 7 8 9	Teams 4 5 6	Teams 1 2 3

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 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 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, 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
2016 – Vista Del Lago 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

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USDA is an equal opportunity provider and employer.

EXPANDED SCHEDULE FOR SATURDAY

Saturday, October 28, 2017

- 8:00 to 8:45 Breakfast – Serve and Clean Up: Foresthill
- 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
❖ Turn in press releases, thank you notes, and evaluation forms
❖ The numbers in the grid are team numbers

Location	Time	9:15 to 9:40	9:45 to 10:10	10:15 to 10:40	10:45 to 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

- 11:20 to 11:30 Judging Panel Feedback to Students – Amphitheater
- 11:30 to 11:45 Special Guest – Congressman Tom McClintock
- 11:45 to 12:00 Awards – Amphitheater
- 12:00 Lunch and Farewell – Serve and Clean Up: Mountain Oaks

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 2017 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:

Chris Dow
Dana Walsh
Danielle Kelly
David Zelinsky
Dennis Norgord
Eddie Oneto
Ernie Lory
Jade Von Aesch
James Woodside
Jennifer Chapman
Jill Engelmann
Joe King
John Nicoles

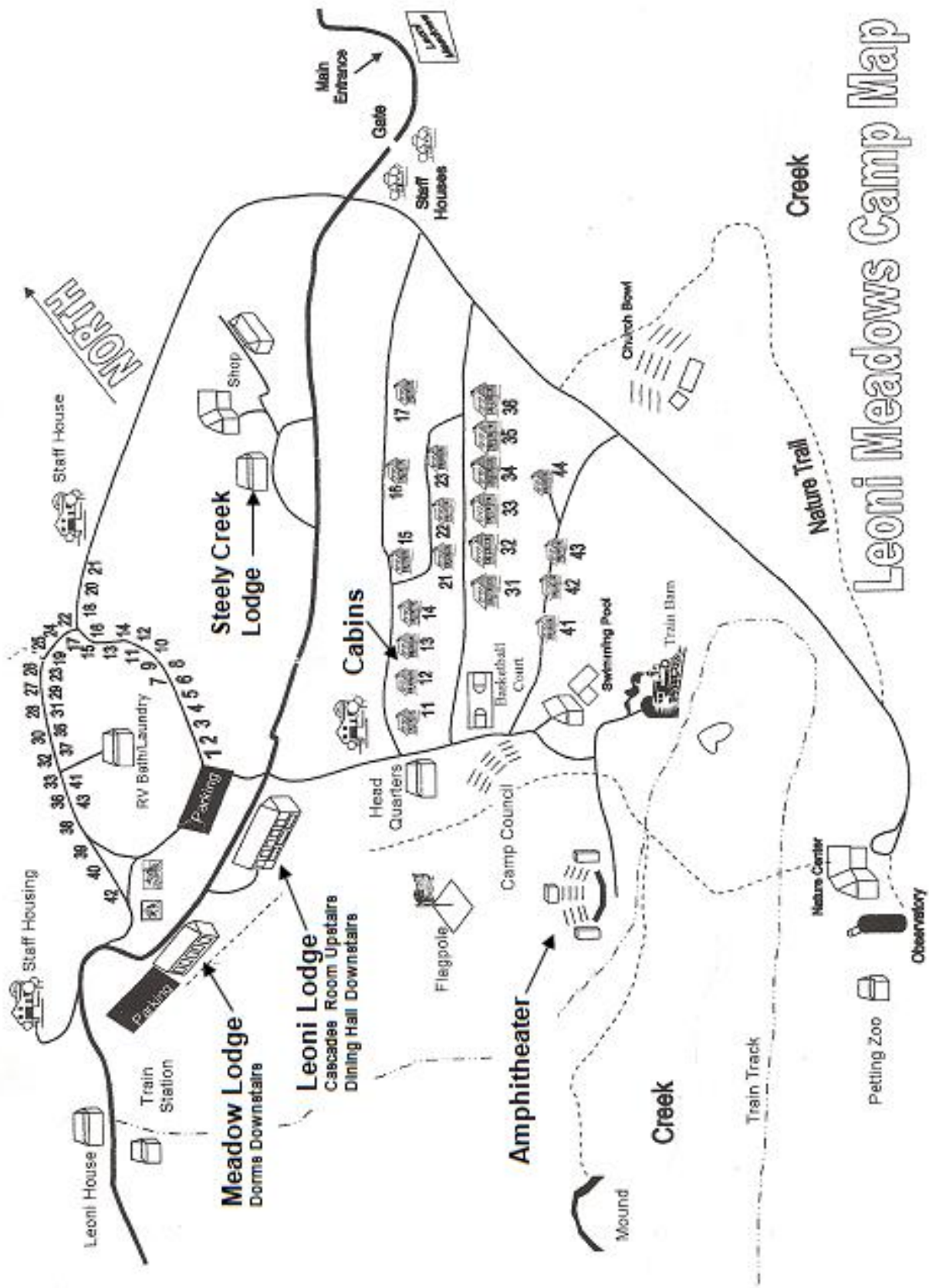
Kate Campbell
Kelsy Sozzi
Kevin Conway
Kevin Roberts
Lindsay McCain
Mark Stewart
Mary Tran
Michael Ranalli
Michele Whitney
Mike De Lasaux
Mike Garcia
Nikki Visser
Phil Mosbacher

Rebecca Boulden
Rich Wade
Richard Williams
Ricky Shurtz
Steve Brink
Sue Mosbacher
Summer Von Aesch
Susie Kocher
Tim Hinkle
Tim Tate
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
Hancock Forest Management
Hardie Tatum Tree Management
Jefferson Resource Company
Joe Thornton Logging
Matt Waverly
Sierra Forest Products
Sierra Resource Management
YourCause



Leoni Meadows Camp Map

NORTH

Main Entrance
Gate

Staff Houses

Creek

Nature Trail

Steely Creek Lodge

Cabins

Church Bowl

Staff Housing

Leoni House

Train Station

Meadow Lodge
Dorms Downstairs

Leoni Lodge
Cascades Room Upstairs
Dining Hall Downstairs

Head Quarters

Flagpole

Amphitheater

Camp Council

Creek

Mound

Train Track

Swimming Pool

Train Barn

Basketball Court

RV Bath/Laundry

Packing

12 3 4 5 6 8 9 10 11 14 15 16 18 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44

Petting Zoo

Nature Center

Observatory