

Robert Dalton, Inc.



San Bernardino Forestry Challenge
November 8 to 11, 2017
Green Valley Lake Christian Camp

2017 SAN BERNARDINO FORESTRY CHALLENGE

SCHEDULE OF EVENTS

Wednesday, November 8, 2017

4:00 to 5:30 Registration
 5:30 to 6:40 Dinner
 6:50 to 8:00 Welcome and Focus Topic Question Presented / Q&A
 8:30 to 10:00 Evening Social Time / Night Hike
 10:00 Report to Dorms

Thursday, November 9, 2017

8:00 to 8:45 Breakfast
 8:45 to 9:00 Assemble for Field Training
 9:00 to 12:00 Field Training
 12:00 to 12:45 Lunch
 12:45 to 1:30 Gather for and Travel to Fieldtrip
 1:30 to 5:00 Fieldtrip
 5:30 to 6:30 Dinner
 6:30 to 6:45 Dinner Clean-up
 6:45 to 10:00 Teams Prepare Presentations
 7:20 to 9:45 "Ask a Forester" Appointments
 10:15 Report to Dorms

Friday, November 10, 2017

Time	Teams 1 - 11	Teams 12 - 21
8:00 to 8:45	Breakfast	
8:45 to 9:15	Gather and Travel to Field Testing	Ropes Features & Zipline Pacing Contest
9:15 to 12:10	Field Testing	
12:15 to 1:15	Lunch	
1:15 to 1:45	Ropes Features & Zipline Pacing Contest	Gather and Travel to Field Testing
1:45 to 4:40		Field Testing
5:00 to 5:30	Turn in Vests, Test Keys Distributed	
5:30 to 6:30	Dinner	
7:00 to 9:30	Teams Finish Preparing Presentations	
9:30 to 10:30	Recreation Time	
10:30	Report to Dorms	

Saturday, November 11, 2017

8:15 to 9:00 Breakfast
 9:00 to 11:00 Teams pack up and clean dorms when not presenting
 8:15 to 9:00 Judges Orientation
 8:45 to 11:10 Teams Give Presentations
 11:20 to 11:45 Judging Panel Feedback to Students
 11:45 to 12:00 Awards
 12:00 Lunch and Farewell

2017 San Bernardino Forestry Challenge Participants

<u>School</u>	<u>City</u>	<u>Advisor(s)</u>	<u>Team #'s</u>
CAMS	Carson	Matt Gold, Crystal Davis	1, 2
Charter Oak	Covina	Pat Foy, Sergio Martinez	6, 7
Citrus Hill	Perris	Debbie Wroblewski, Justin Evans	3, 4, 5
HMSA	Hawthorne	Meredith Brandon	8, 9
J. W. North	Riverside	Lillian McCandless	10, 11
Littlerock	Littlerock	Cindy Nelson, Robin Olsen	12, 13, 14
Oxford	Cypress	Robert Nguyen, Shirley Tran	17, 18
Ridgeview	Bakersfield	Mike Brasier, Lauren Figueroa	15, 16
Sonora	La Habra	Mary Riley	19
Vista	Vista	Sara Benner	20, 21

Housing Assignments

<u>Dorm</u>	<u>Gender</u>	<u>Schools</u>
E, east side	Male	CAMS, Charter Oak, Citrus Hill, HMSA, JW North
E, west side	Male	Littlerock, Oxford, Ridgeview, Vista
M, north side	Female	CAMS, Charter Oak, Citrus Hill
M, south side	Female	HMSA, JW North, Littlerock
N, north side	Female	Oxford, Ridgeview, Sonora, Vista

Lodge B Diane and Staff 530-417-1960 (limited reception)

San Bernardino Forestry Challenge Champions

2014 – CA Academy of Mathematics and Science

2015 – Los Osos High School

2016 – Los Osos High School

Pacing Contest Winners

2014 - CA Academy of Mathematics and Science

2015 – Littlerock High School

2016 – Los Osos High School

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
- 2017 - Arron White, Grant 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.

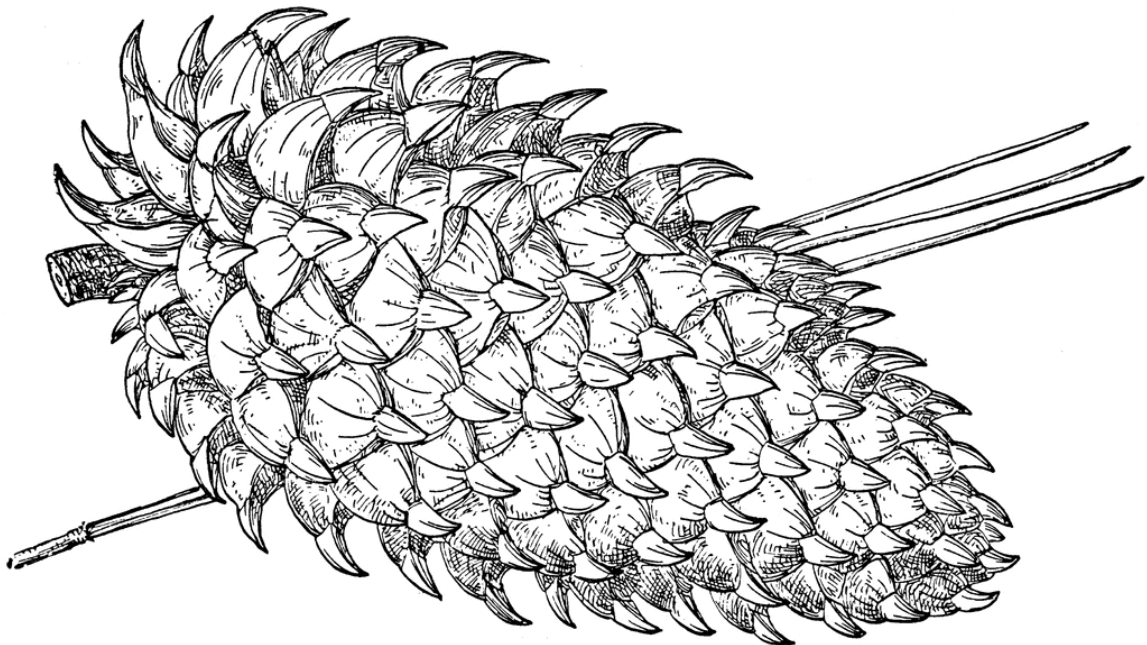
Award Recipients:

- 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
- 2017 - Ernie Lory, Grizzly Flats Firesafe Council

EXPANDED SCHEDULE FOR WEDNESDAY

Wednesday, November 8, 2017

- 4:00 to 5:30 Registration – Check-in at Front Office
- 5:30 to 6:40 Dinner – Dining Hall
- 6:50 to 7:00 Welcome – Chapel
 ❖ Please gather by 6:45
 ❖ Bring Focus Topic Question, Paper, and Pencils
- 7:00 to 8:00 Focus Topic Question presented
- 8:00 to 8:30 Break / Late Registration
- 8:30 to 10:00 Night Hike and Social Time – Rec Hall
- 10:00 Report to Dorms
- 10:30 Lights Out



EXPANDED SCHEDULE FOR THURSDAY

Thursday, November 10, 2016

- 8:00 to 8:45 Breakfast – Dining Hall
- 8:55 to 9:00 Field Training Introduction
- ❖ Gather in front of Dining Hall
 - ❖ See Training Rotation Schedule for list of what to bring
- 9:05 to 12:00 Field Training
- 12:00 to 12:45 Lunch
- 12:45 to 1:00 Load Vehicles, Meet at Camp Entrance
- 1:00 to 1:30 Travel to Fieldtrip
- 1:30 to 5:00 Fieldtrip, including group and school photos
- 5:30 to 6:30 Dinner – Dining Hall
- 6:30 to 6:45 Dinner Clean Up
- 6:45 to 10:00 Teams Prepare Presentations – Dining Hall
- ❖ Laptops available for loan if needed
 - ❖ Students should not leave Dining Hall except for Ask a Forester appointments
- 7:20 to 9:45 “Ask a Forester” appointments – Rec Hall
- 10:15 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 Bark Beetles	Teams 1 - 5	Teams 17 - 21	Teams 12 - 16	Teams 6 - 11
Pacing Compass and Maps	Teams 6 - 11	Teams 1 - 5	Teams 17 - 21	Teams 12 - 16
Diameter Tape Clinometer Volume Tables Market Values	Teams 12 - 16	Teams 6 - 11	Teams 1 - 5	Teams 17 - 21
Tree ID Forest Products CA Forest Communities	Teams 17 - 21	Teams 12 - 16	Teams 6 - 11	Teams 1 - 5

Teams should assemble in front of Dining Hall 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.

“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	1
14	7:45	7	9:00	1
21	8:10	7	9:25	1

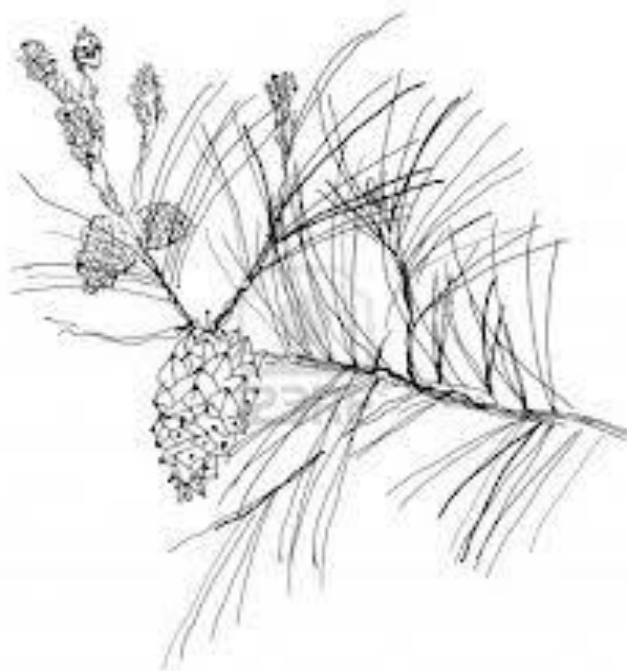
- All appointments are in Rec Hall.
- Arrive a few minutes before your scheduled appointment time.
- Appointments are 20 minutes in length.
- Bring any materials with you that will help make your appointment productive.
- Any number of team members may go to the appointment.
- Advisors may not go to the appointment.

Friday - 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 for the field test.

Pacing Contest Rules

1. One entry per school.
2. Students can work together or have their best person try the pace. Schools can decide as a group how to approach this.
3. The goal is to walk 66 feet without measuring with any device.
4. Each school gets two markers (tape or flags) to mark their distance at the beginning and end of the chain.
5. If using tape, write the school name on both pieces of tape with arrows pointing towards each other. Draw a line from which to measure.
6. No heel to toe or measuring of any kind.
7. Each school must go a different direction; no school can pace right next to another school.
8. All schools (students and chaperones) must leave the pacing contest area before results can be obtained.



EXPANDED SCHEDULE FOR FRIDAY

Friday, November 10, 2017

Time	Teams 1 - 11	Teams 12 - 21
8:00 to 8:45	Breakfast – Teams testing in AM, get in line first	
8:45 to 9:15	Gather in front of Dining Hall Walk to Testing Area	Ropes Features & Zipline Pacing Contest
9:15 to 12:10	Field Testing	
12:15 to 1:15	Lunch	
1:15 to 1:45	Ropes Features & Zipline Pacing Contest	Gather in front of Dining Hall Walk to Testing Area
1:45 to 4:40		Field Testing
5:00 to 5:30	Turn in Vests, Test Keys Distributed – Dining Hall deck	
5:30 to 6:30	Dinner	
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	Social Time / Night Hike	
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
Roadside	Teams 1 - 2	Teams 8 - 11	Teams 6 - 7	Teams 3 - 5
Char	Teams 3 - 5	Teams 1 - 2	Teams 8 - 11	Teams 6 - 7
Viewpoint	Teams 6 - 7	Teams 3 - 5	Teams 1 - 2	Teams 8 - 11
Free for All	Teams 8 - 11	Teams 6 - 7	Teams 3 - 5	Teams 1 - 2

Afternoon

Time Station	1:45 to 2:25	2:30 to 3:10	3:15 to 3:55	4:00 to 4:40
Roadside	Teams 12 - 14	BYE	Teams 19 - 21	Teams 15 - 18
Char	Teams 15 - 18	Teams 12 - 14	BYE	Teams 19 - 21
Viewpoint	Teams 19 - 21	Teams 15 - 18	Teams 12 - 14	BYE
Free for All	BYE	Teams 19 - 21	Teams 15 - 18	Teams 12 - 14

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.

EXPANDED SCHEDULE FOR SATURDAY

Saturday, November 11, 2017

8:15 to 9:00 Breakfast – Dining Hall (Please complete evaluation forms and thank you notes)

9:00 to 11:00 Teams pack up and clean dorms when not presenting

8:15 to 9:00 Judges Orientation – Rec Hall
❖ For Judges and Timekeepers only

9:15 to 11:10 Teams Give Presentations
❖ Please turn in test keys, press releases, thank you notes, and evaluation forms before starting

Location / Time	8:45 to 9:15	9:15 to 9:40	9:45 to 10:10	10:15 to 10:40	10:45 to 11:10
Lodge K, Side A		1	2	3	4
Pool House		5	6	7	8
Chapel	9	10	11	12	13
Rec Hall		14	15	16	17
Lodge B Lower Floor		18	19	20	21

(The numbers in the grid are team numbers.)

11:20 to 11:45 Judging Panel Feedback to Students – Chapel

11:45 to 12:00 Awards – Chapel

12:00 Lunch and Farewell

- * If your presentation time is not suitable, you are free to trade with another team if both agree. Just let Diane know.
- * Teachers and parents may listen to their own team's presentation(s) but cannot listen to other teams.
- * Each presentation location will have three judges and a Timekeeper.
- * The Timekeeper will start timing when the presentation begins and show a 5 and a 1 minute warning card.
- * 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 should keep their presentation materials. We encourage them to give their presentation at school and in the community.
- * All teams will attend a review session at the Chapel from 11:20 to 11:45, where the judges will provide feedback to the teams, after which the awards will be presented.

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
California Licensed Foresters Association
Crane Mills
CTL Forest Management
Hancock Forest Management
Hardie Tatum Tree Management
Jefferson Resource Company
Joe Thornton Logging
Mark Crawford Logging
Matt Waverly
Placer County Resource Conservation District
Sierra Forest Products
Sierra Resource Management
YourCause

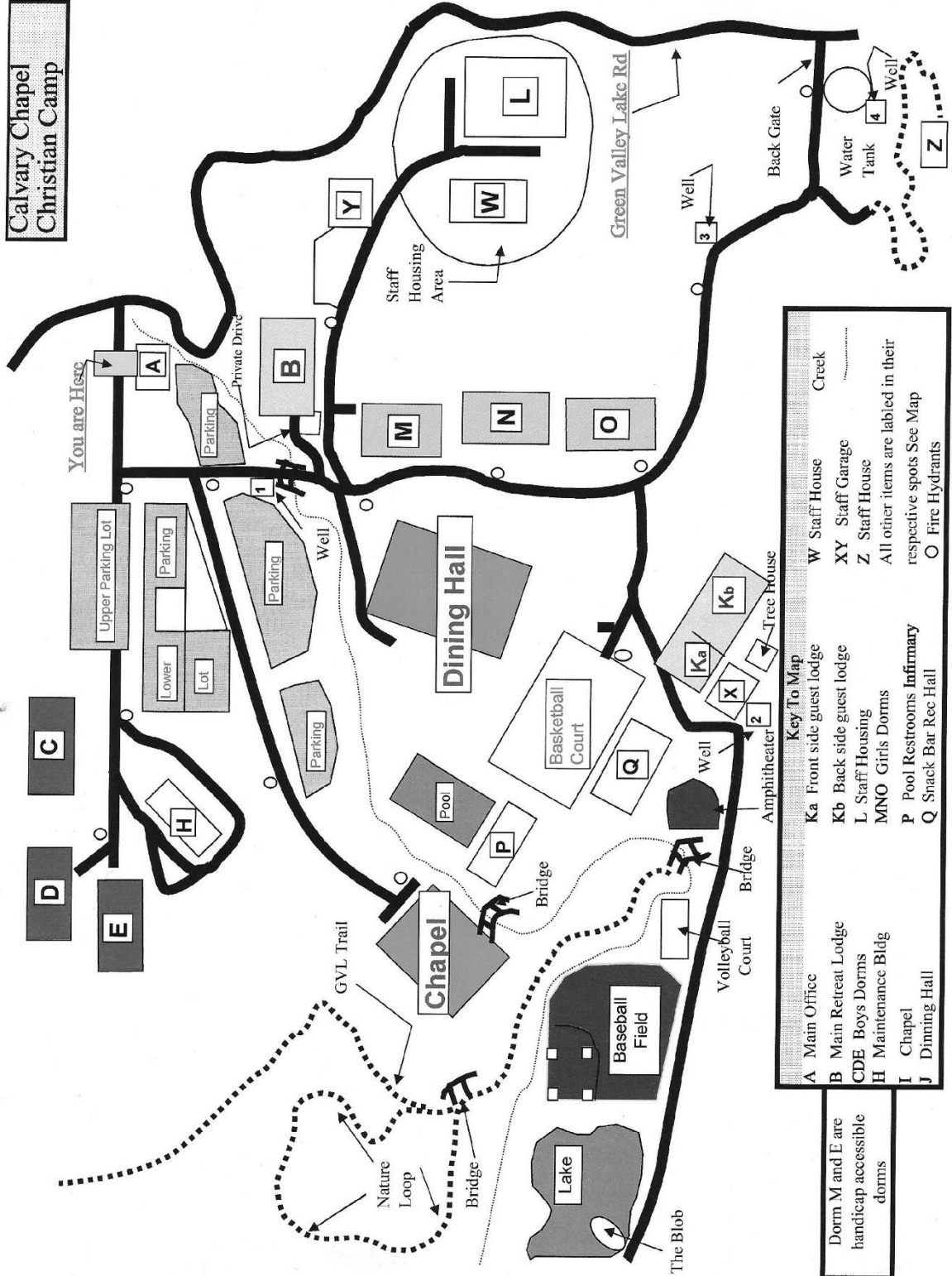
Thank You to the 2017 San Bernardino Forestry Challenge Volunteers

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

Alex Rueda
Caroline Brown
Corrine Morin
Dan Cullinane
David Haas
Debbie Chapman
Frank Losekoot
Hannah Henry
Henry Herrera
Ian McBride
Jerry Jensen

John Nicoles
Kathleen Edwards
Larri Palmer
Laura Lindsay
Mary Dial
Mike Garcia
Rochelle Frymire
Sean Kato
Shari Tindall
Tim Morin

**Calvary Chapel
Christian Camp**



Key To Map

A	Main Office	Ka	Front side guest lodge	W	Staff House
B	Main Retreat Lodge	Kb	Back side guest lodge	XY	Staff Garage
CDE	Boys Dorms	L	Staff Housing	Z	Staff House
H	Maintenance Bldg	MNO	Girls Dorms	All other items are labeled in their respective spots See Map	
I	Chapel	P	Pool Restrooms	Infirmary	
J	Dimming Hall	Q	Snack Bar	Rec Hall	

Dorm M and E are handicapped accessible dorms

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