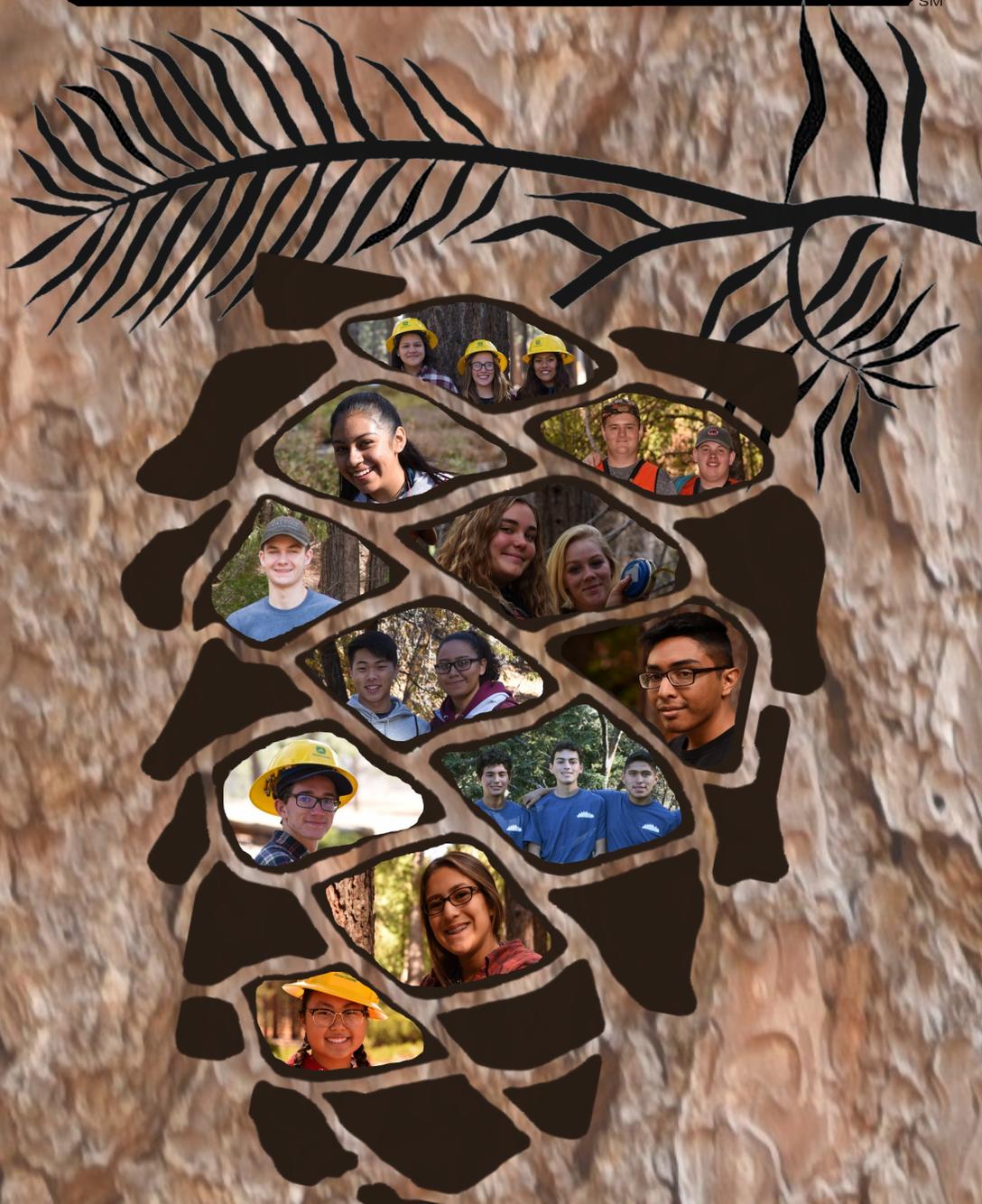




FORESTRY CHALLENGE

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2018 Annual Report
Presented by
Forestry Educators Incorporated
a Non-Profit 501(c)3 Corporation

Message from the Executive Director



2018 Staff: Jessica, Diane, Ranae, Rika, and Dan

We are pleased to present the 2018 year in review in this annual report. The pages are filled with images of young people learning about the science of forest management with genuine interest and enthusiasm. In the past year, nearly 400 high school students spent four days with us collecting data, working with natural resource professionals, and having fun. Even if they don't remember the details, their memories and impressions about using science to manage the forest will last a lifetime.

Whether you are a sponsor, a mentor, or a volunteer, your support is critical to our success. The program has nearly reached its capacity and, as we look ahead, our goal is to continue improving the finished product and keep the momentum strong.

With the devastating 2018 fire season barely in the rear-view mirror, we have a golden opportunity to inform and educate our young adults while the spotlight is on the impaired health of California's forests. Let's turn this tragedy into a teachable moment and inspire the next generation to do better. Let's give them the basic tools so they can come up with workable solutions. The seed of knowledge we plant today will become the mature forest of tomorrow.

On behalf of the 2018 Forestry Challenge staff, thank you!

Diane Dealey Neill
Executive Director
Forestry Educators Incorporated

2018 BUDGET

Funding Source

| | |
|-------------------------------|--------------|
| USFS Forest Stewardship Grant | \$ 75,160.00 |
| CalFire | \$ 47,548.36 |
| Sponsor Contributions | \$ 88,073.75 |
| Registration Income | \$ 31,992.12 |

Total Funding **\$ 242,774.23**

Expenses

Contractual

| | |
|--------------------------------|--------------|
| Total Facility Fees | \$ 79,205.69 |
| Insurance | \$ 2,817.63 |
| Bussing / Event Transportation | \$ 1,220.00 |
| Legal / Professional | \$ 1,052.39 |
| Web Page | \$ 765.93 |

Personnel

| | |
|----------------------------|--------------|
| Executive Director | \$ 50,000.04 |
| Office Assistant | \$ 22,213.50 |
| Emergency Care Coordinator | \$ 2,000.00 |
| Additional Staff | \$ 11,084.38 |

Employee Benefits

| | |
|----------------------------|-------------|
| Unemployment, Workers Comp | \$ 6,981.56 |
|----------------------------|-------------|

Supplies

| | |
|-----------------|-------------|
| T-Shirts | \$ 5,832.45 |
| Food | \$ 6,737.37 |
| Office Supplies | \$ 6,386.49 |
| Printing | \$ 2,149.34 |
| Postage | \$ 1,154.18 |
| Awards | \$ 662.33 |

Travel

| | |
|--------------------------|-------------|
| Employee Mileage | \$ 6,721.94 |
| Volunteer Mileage | \$ 1,447.56 |
| Hotels | \$ 637.30 |
| Airfare | \$ 1,727.72 |
| Rental Car | \$ 2,878.90 |
| Conference Registrations | \$ 891.00 |

Other

| | |
|--------------------------------|--------------|
| Substitutes and Transportation | \$ 10,856.21 |
|--------------------------------|--------------|

Total Expenses **\$ 225,423.91**

Thank you to our Sponsors

**2018 Totals: 388 Students and 90 Teachers from 48 Schools
159 Volunteers donated 2,078 hours for a total value of \$111,784**

| | |
|---|---|
| Amador Resource Conservation District | Pacific Forest Foundation |
| American AgCredit | Pacific Ultrapower Chinese Station |
| Anderson Logging | PG&E Corporation Foundation |
| Associated California Loggers | Placer County Resource Conservation District |
| Bejac | Red River Forests, LLC |
| Big Creek Lumber Company | Redwood Empire Sawmill |
| Bordges Timber | Rich Wade |
| CalFire | Robert Dalton |
| California Forestry Association | Robinson Enterprises |
| Clif Bar Family Foundation | Roseburg Resources Company |
| Collins Pine Company | Santa Cruz County Office of Education |
| Crane Mills | Shasta Forests Timberlands |
| Emerson Logging | Sierra Cascade Logging Conference |
| Fruit Growers Supply Company | Sierra Forest Products |
| Georgetown Divide RCD | Sierra Nevada Conservancy |
| Hancock Forest Management | Sierra Pacific Foundation |
| Inland Empire Resource Conservation District | Sierra Resource Management |
| Joe Thornton Logging | Soper-Wheeler Company |
| J & R Logging | The Papé Group |
| Kiwanis Club of Placerville | Tim Treichelt Giving Fund |
| Knox Garden Box | Timber Products Company |
| March Conservation Fund | Trinity River Lumber Company |
| Mary A. Crocker Trust | USFS – Forest Stewardship Program |
| Matt Waverly | Waratah Forestry Attachments |
| Mendo-Boldt Industries, Inc. | Woolery Timber Management |
| Mendocino and Humboldt Redwood Companies | W. Thomas Veal Jr. DDS |

Forestry Educators Incorporated is the non-profit corporation that administers the Forestry Challenge. Meeting twice annually, the Board consists of a President, Secretary, and Treasurer. President Tim Cary is an attorney specializing in representing school districts, Secretary Jill Engelmann is a human resources specialist, and Treasurer Rich Wade is a Registered Professional Forester and a member of the CA Board of Forestry.

Special Awards

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.

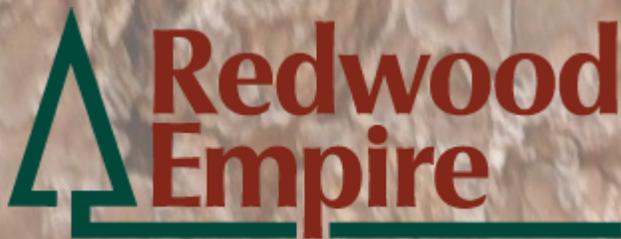
Len Lindstrand, RPF #624 and the 2018 recipient, is a longtime supporter and volunteer of the Forestry Challenge. Len is involved in the licensing and examination process for Registered Professional Foresters and was named a California Licensed Foresters Association's Forester of the Year. Len has also been influential at the Forestry Challenge, providing insightful feedback and suggestions that have helped to progress and streamline the program to its current iteration. He has also been an all-star "Ask a Forester", providing students with information on current forestry topics and regulations, sharing his experiences with the next generation.



The Tom Eustis Memorial Award for Teaching Excellence was established in 2006 to honor Thomas McLoughlin Eustis. Tom was both a forester and educator, earning multiple degrees in forestry. He was also a dedicated supporter of the Forestry Challenge and participated as a Team Advisor in 2003 and 2005. This year, instead of being given to an individual, a teaching team was awarded for their enthusiastic dedication and support of the Forestry Challenge. Christine Baker, Senna Vasquez, and Jerry Huang from Sacramento New Technology High School have brought many top students and teams during their 14 years of participation. The Forestry Challenge has become an integral extracurricular activity at the school, thanks to their enthusiasm and commitment to fully engaging their students in the field of forestry.



Scholarship



A DIVISION OF PACIFIC STATES INDUSTRIES, INC.

For the past several years, Redwood Empire, a division of Pacific State Industries and the Burch Family, has awarded scholarships to assist students who plan to obtain a college degree in Forestry and participated in one or more Forestry Challenge events.



This year's scholarship recipient, Johanna Call, is attending Shasta College, pursuing a Forestry degree to add to her Natural Resources degree. The scholarship assisted with tuition and the purchase of a laptop.

CHAMPIONSHIP

Camp Sylvester, April 19 - 21

8 schools with 35 students and 14 teachers

*Acalanes Charter Oak Foresthill Franklin Grant
Oxford Academy Sac New Tech Shasta Charter Academy*



The best of the best from throughout the state gathered in Tuolumne County for the first-ever Forestry Challenge Championship. This event was planned in just a few short months, inspired by a January survey sent to the top 2017 teams that revealed a desire to compete statewide. Teams traveled from as far as Shasta and Orange counties to attend. The event was shortened to a 3-day, 2-night format due to the fact that these teams were already proficient with forestry tools and did not need training. Forester Brady Dubois of Sierra Pacific Industries led the focus topic, asking the students to write a silvicultural prescription for a 49 acre unit in the company's Lyons Tract. Prior to the start of the event, most school groups toured the Sierra Pacific Industries mill in Sonora.



The first-ever "Ask a Logger", Mike Albrecht from Sierra Resource Management



The First Forestry Challenge State Champions

Sacramento New Tech High School

One of the challenges with the Championship event moving forward will be locating focus topic sites free of snow in April



Many participants experienced an operational lumber mill for the first time at the SPI mill in Sonora



SHASTA

Mountain Meadows Camp, Sept 26 - 29

14 schools with 87 students and 20 teachers

*Anderson Anderson New Tech Delta Etna Fort Bragg
Golden Eagle Charter Minarets Mt. Shasta Nevada Union
Northern Summit Academy Red Bluff Trinity Weed Westwood*



The first event of the season engaged students by educating them about newly modified permitting options for landowners. CalFire Forester Shannon Johnson led the focus topic, asking the students to apply Section 1038 exemptions to a 37 acre parcel near the CalFire Shingletown station. After collecting data on plots set up in the parcel, students used the information, which included trees per acre, species composition, and basal area, to decide which exemption or combination of exemptions would create a fire resilient landscape that could be used as a model for nearby parcels.

First Place



Trinity High School



Pacing Contest Winners
Red Bluff High School



Four year participants
Cassandra Peterson, Haleigh Meeks, Mya King



SANTA CRUZ

Redwood Christian Park, October 10 - 13

7 schools with 69 students and 11 teachers

*Eleanor Roosevelt Community Learning Center Golden Valley Granada Hills Charter
Littlerock Monache San Lorenzo Valley Woodside*

Towering redwoods and perfect fall weather attracted schools from the Central Valley and Southern California, as well as a few local schools, for the 2018 Santa Cruz Forestry Challenge. One of the highlights for the students this year was learning how to conduct “Brown’s Transects”, a method to quantify woody debris in a natural landscape. Teams measured surface fuel at Henry Cowell Redwoods State Park in an area that was recently treated to control vegetation and rehabilitate the Santa Cruz Sandhills ecosystem. The data gathered and modeling of fire behavior in the treated versus untreated units will help Park managers promote this ongoing vegetation management project to the public.





EL DORADO

Leoni Meadows Camp, October 24 - 27

15 schools with 98 students and 23 teachers

*Amador Cordova Del Oro El Dorado Eleanor Roosevelt Learning Center
Folsom Foresthill Golden Sierra Grant Mira Loma
Mountain Oaks Charter Sac New Tech Summerville Vista Del Lago*



It doesn't get more real than the fieldwork conducted by the teams who participated in the largest event of the 2018 season. Leoni Meadows Camp was interested in conducting a timber harvest and wanted to know if the market conditions were right. The Forestry Challenge teams calculated the volume and value of the trees available for harvest, making sure to keep the stand dense enough to maintain habitat to support the Great Gray Owl. Using current information on lumber prices and logging/hauling costs, teams determined that the camp will meet their financial goals if they harvest approximately 107 acres, based on today's market.



**First Place
Foresthill High School**



**Four year participants
Michael Rafanan and David Candia**



**Pacing Contest Winners
Mira Loma High School**



SAN BERNARDINO

Green Valley Lake Camp, November 7 - 10

13 schools with 99 students and 22 teachers

Alta Loma Arlington CAMS Charter Oak Citrus Hill Coalinga Colony

Hawthorne J W North Oxford Academy Porterville Sequoia Vista



The final event of the 2018 Forestry Challenge season was punctuated with brisk but clear weather. Participants braved the cold to perform very well on the field test and collect some great data at YMCA Camp Whittle near Big Bear. The camp has an upcoming fuels reduction project that will remove all understory trees under 12 inches in diameter and treat brush competing with young trees in open areas. Teams evaluated the forested area of the 160-acre property to determine if the prescribed treatment will achieve the landowner goals of creating a fire resilient and uneven-aged stand. While removing small trees and some of the brush will reduce ladder fuels, more treatment will be needed to open up gaps in the canopy, break horizontal continuity, and allow for natural regeneration.

First Place



J.W. North
High School

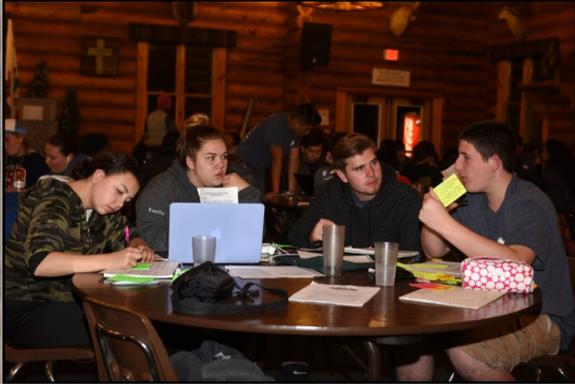
Four year participants

Maggie Lu, Cortlandt Honeyman,
and Liam Thompson



Pacing Contest Winners
Charter Oak High School





Generations

Forestry runs in the family! Here are a few Forestry Challenge student participants with their forester parents who have volunteered over the years to support the program. These student participants get a healthy dose of forestry at home and have been successful at applying their inherent knowledge at various Forestry Challenge events.



David and Liam Thompson



Bob and Kevin Broderick



Matt and Mackenzie Waverly



Haleigh Meeks



Haleigh Meeks is a unique Forestry Challenge participant. When she was in 8th grade, her teacher at Westwood High School in rural Lassen County got special permission to bring students from his combined 8th and 9th grade class. Haleigh participated that year and her subsequent four years of high school, making her the first ever 5-year award recipient. After graduation, Haleigh will be attending Shasta College for a degree in Natural Resources and then plans to pursue a Forestry

degree at Humboldt State University. She summed up her Forestry Challenge experience this way: "The Forestry Challenge helped



me gain knowledge of how to manage forests and why forested areas, especially around my community, are so important. The forestry industry is vast and filled with all types of interesting jobs that help our environment, and to me, as a little eighth grader, it was inspiring. That inspiration followed me throughout my five years at the Challenge and has taken me into the next step of my life, where I want to be a part of the industry!"



Where Are They Now?



Ryan Wimmer, RPF #3060

Participated: 2006 - 2009

Humboldt State University

Forester I with CalFire Fresno-Kings Unit

“The biggest influence from the Forestry Challenge was the exposure to industry professionals. I went out with a few foresters I met at the Challenge and experiencing modern-day timber operations on top of historic logging activity was a great hook. I knew what I wanted to do for a living.”

Kelsey Vella

Participated: 2007

Humboldt State University

Environmental Scientist with the CA Dept. of Fish and Wildlife

“The skills I obtained along the way, beginning with the Forestry Challenge, have helped jump start a successful career. I look forward to continued growth in my natural resources career!”



Courtney Coats

Participated: 2008

Reedley College

Forestry Technician with the US Forest Service, Eldorado Natl. Forest

“The Forestry Challenge helped further my interest in the Forestry and Natural Resources fields. I got to meet different professionals and get a feel for what it would be like working in forestry.”

Ryan Camera

Participated: 2007

Humboldt State University

Forestry Field Technician with BBW & Associates

“Discovering forestry at the Forestry Challenge was a huge factor in deciding to pursue an education in forest management. There is much work to do in forest management in the west and, although it isn’t a typical nine-to-five job, it’s rewarding to be a part of managing one of our most valuable natural resources.”



What is the Forestry Challenge?

The Forestry Challenge is an academic competition for high school students in technical forestry and current forestry topics. The four-day events are held in five locations throughout California.

Goal #1: Teach students the basic principles of forestry, connecting classroom math and science to hands-on experiences with real-world applications, enabling them to make recommendations about natural resource management.



Goal #2: Give students the opportunity to explore careers by interacting with natural resource professionals including foresters, hydrologists, soil scientists, wildlife biologists, and fire scientists.

Goal #3: Provide an opportunity for a diverse student population to experience outdoor recreation and develop an appreciation for the forest and its benefits to us all.



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Forestry Educators Incorporated

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