

Board of Forestry and Fire Protection
Professional Foresters Registration Program



Licensing News

Summer 2017
Volume 29 - Issue 1



**CURRENT PROFESSIONAL FORESTERS EXAMINING COMMITTEE
COMPOSITION**

Professional Foresters Registration shall protect the public interest through the regulation of those individuals who are licensed to practice the profession of forestry, and whose activities have an impact upon the ecology of forested landscapes and the quality of the forest environment, within the State of California.

Mr. Otto van Emmerik, Chair – RPF (Industry)
Mr. Dan Sendek – (Public)
Dr. Kimberley Rodrigues, Vice Chair – (Public)
Mr. William Snyder – RPF (Cal Fire, Retired)
Mr. Gerald Jensen – RPF (USFS, Retired)
Mr. Jason Poburko – RPF (Cal Fire)
Mr. Larry Forero – CRM (Certified Specialty)

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CURRENT BOARD OF FORESTRY & FIRE PROTECTION COMPOSITION

The Board's mission is to lead California in developing policies and programs that serve the public interest in environmentally, economically, and socially sustainable management of forest and rangelands, and a fire protection system that protects and serves the people of the state.

Dr. J Keith Gilliss, Chair (Public Representative)
Mr. Mark Andre, Vice Chair (Public Representative)
Ms. Darcy Wheelles (Public Representative)
Mr. Richard Wade (Timber Industry Representative)
Ms. Susan Husari (Public Representative)
Mr. Marc Los Huertos (Public Representative)
Mr. Michael Miles (Timber Industry Representative)
Ms. Katie Delbar (Range/Livestock Representative)
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The View from the 15th Floor

Greetings from the 15th floor. Allow me to introduce myself. My name is Dan Stapleton and I have recently been appointed as the Assistant Executive Officer to the Board of Forestry and Fire Protection and Executive Officer of Foresters Registration. It has been two summers since the last edition of Licensing News was published. I will do my best to update you of any changes and discuss important topics relevant to the management of forests and the licensing of foresters.

About me, I have been a Forester since 1988, graduating from Oregon State University with a BS in Forest Management. Out of college, I immediately went to work for timber giant Weyerhaeuser Company as an intern, then worked for Stimson Lumber Company of Rellim Redwood fame as a Woodland Forester and Assistant Timber Manager. In 1993, I took a job as the Supervisor of Contract Logging for Georgia-Pacific Corporation (GP) in Toledo Oregon and was exposed to forestry in California while cross training at Martell and Fort Bragg. I loved the diversity of the forests and the consideration in the rules given to non-timber values here in California, but most of all I liked the weather. In 2000, I took a job with Sierra Pacific Industries (SPI) on the Camino District, writing THPs and heading up reforestation activity on one of California's most historic and productive blocks of private forestland. In 2014, the King fire ravaged 20,000 acres of the 120,000 acres I helped to manage. This set back much of the work I had performed at SPI, compelling me to re-evaluate my future in Forestry. I opted to apply for the Licensing Officer position here at the Board after a brief stint as an Appraiser with the Board of Equalization and as a Forester II for Cal Fire.

My work experience across state lines has provided me perspective into how other states regulate forestry operations. Despite the challenges created by the requirements of CEQA, California forests remain productive and diverse largely due to forest management practices applied by knowledgeable Registered Professional Foresters. In my estimation, the forestry expertise for the typical forest manager in California is higher than in other states, quite simply because there are so many issues to contend with and an ever-changing understanding of the science, both natural and political. My goal is to be proactive, remain informed and unbiased, and reach out to students in natural resource studies to encourage forestry as a profession so we will always have a viable list of capable RPFs. I look forward to serving the Board and the State in this capacity.

Snapshot in Licensing History



Organization and agency leaders informally discuss the Professional Foresters Registration for the State of California, June 8, 1973.

Left to right;

Konrad B. Reinke, Chairman Southern California Section SAF
Douglas R. Leisz, Regional Forester, USFS and member of the PFEC
Edward F. Martin, Executive Officer Foresters Licensing

Photo by Donald T. Hansen, Chairman, Publicity Committee Southern California Section SAF

REGULATIONS EFFECTIVE JANUARY 1, 2017

The 2016 Board of Forestry and Fire Protection (Board) had a productive year with several new regulations and amendments to existing regulation. A full list can be viewed at:

http://bofdata.fire.ca.gov/regulations/approved_regulations/?archive_year=2016

Here is a brief list and summary of what was produced:

Drought Mortality Amendments, 2016 –This exemption will expire on December 31, 2018 unless the Board decides to extend them following review of implementation and monitoring data from the regulated public, state and federal agencies.

White and Black Oak Management Special Prescription, 2016 – This special prescription allows landowners to manage specifically for oak woodlands, negating post-harvest stocking requirements for commercial conifer species currently required within the Forest Practice Rules (FPRs). Oak woodlands support a unique set of wildlife species, but also create valuable working landscapes for range managers, and are essential to California's Native American people's customs and cultures. The rule is designed to mitigate encroachment of conifers on oak woodlands caused by the historical and widespread practice of aggressive initial attack on wildland fires during the 19th and 20th centuries, disrupting historical fire regimes. This has ultimately culminated in degradation of the integrity and distribution of black and Oregon white oak woodlands within California. This special prescription took effect January 1, 2017.

Listed Anadromous Salmonid Amendments, 2016 - This rulemaking effort arose from the National Marine Fisheries Service (NMFS) efforts to re-introduce experimental populations of listed anadromous salmonids above permanent dams that attenuate fine sediment. Under the existing FPRs, timber owners were concerned about the regulatory impacts that would apply to watercourses due to experimental reintroductions of these salmonid species. To alleviate concerns amendments were put into place that would retain the less rigorous watercourse protection rules when specified conditions exist. . . These amendments took effect January 1, 2017, with NMFS hoping to begin experimental reintroductions in spring 2017.

Utility Notice of Overhead Operations Amendments, 2016 – The purpose of this regulations is to improve communication between the Department of Forestry and Fire Protection (Department), timberland landowners, and the various Public Utilities (PUs) operating within California in regard to timber management activities within a specified distance from powerlines. Improving

the communications and working relationships between forest landowners and PUs will aid in a productive utility grid delivery and grid protection. By notifying PUs of impending forest management activities, linemen crews will have ample time to ensure the integrity of the electrical equipment in that area, reducing the chance of lost power delivery. Utility linemen will also have the opportunity to either replace power equipment or perform maintenance on existing structures and protect them from faulty electrical transportation before the commencement of the timber operation, avoiding possible compromises of the power delivering structures. This rulemaking effort is effective January 1, 2017.

Less Than 3 Acre Conversion Amendments, 2016 - Guided by efforts to ensure the FPRs are both effective and not unnecessarily burdensome to the regulated public, the Board amended the less than 3-acre conversion stipulations to allow timber operations on sites with properly protected significant archaeological sites. The effect of these amendments is an exception to the current regulatory language which strictly prohibits timber operations on a property containing a significant archeological site and allows timber operations on a site with a significant archaeological site when the project proponent agrees to apply measures to properly protect these sites, such as to cap the site to prevent any harm when timber operations are conducted. However, before the Less than 3 Acre Conversion Exemption is filed, the Department Archeologist must concur with the project proponent that the mitigations and/or protections of the archaeological site will protect the significant archeological site from harm. These amendments take effect January 1, 2017.

REGULATIONS EFFECTIVE JANUARY 1, 2018

A full list of regulation approved in 2017 can be viewed at http://bofdata.fire.ca.gov/regulations/approved_regulations/ and includes the Working Forest Management Plan, a summary of which follows:

Working Forest Management Plan – These regulations introduce a new permitting option, envisioned by the legislature, that would authorize a person who intends to become a Working Forest Landowner to file a Working Forest Management Plan (WFMP) with the Department, with the long-term objective of an uneven aged timber stand and sustained yield through the implementation of the plan. Working forest landowners with less than 15,000 acres and an approved WFMP will be able to manage their lands through selection harvests after a Working Forest Harvest Notice has been accepted by the Department instead of having to submit costly Timber Harvest Plans every time a harvest is scheduled. This permitting option is modelled after the Non Industrial Management Plan (NTMP), but as compared to the NTMP the WFMP has more rigorous timber inventory standards, does not lock in the rules at the time of approval and is subject to a 5 year review.

PROPOSED REGULATIONS

A list of proposed rule packages that have been published for notice of rulemaking and are being considered for adoption by the Board can be viewed at http://www.bof.fire.ca.gov/regulations/proposed_rule_packages/, selected summaries for which follow:

Cumulative Impacts Assessment Checklist, Technical Rule Addendum No. 2 and Appendix Amendments, 2017 - The proposed action does several things including incorporating Greenhouse Gases and Wildfire Risk and Hazard into the cumulative impacts assessment which is necessary to align the THP environmental review process with the existing statute.

RPF and LTO Responsibility Amendments – These amendments to 14 CCR § 1035.1, 1035.2 and 1035.3 address the concerns of the LTO community. The proposed action is to require additional RPF responsibility and increased interaction between the RPF and the LTO to facilitate LTO compliance with the Board rules.

PFEC Appointments Amendments, 2017 -

The proposed action is to make consistent the regulations with its statutory authority, which will ensure that the PFEC is comprised of a diverse array of professionals within the fields of forestry and resource management with many different areas of expertise.

REGULATION FILES (new addition to Board's website)

All regulation files are now available at http://bofdata.fire.ca.gov/regulations/regulations_file_library/

REGISTERED PROFESSIONAL FORESTERS & CERTIFIED RANGELAND MANAGERS

RPF and CRM Rolls

The table below indicates the known status of all current and former registrants by license type as of July 12, 2017.

Status	RPF's	CRM's
Valid	1173	85
Withdrawn	151	5
Revoked for Non-Renewal or by Disciplinary Action	755	11
Voluntarily Relinquished	660	9
Confirmed Deceased	305	4
Total	3044	114

Welcome to New Registrants

The following individuals passed the RPF or CRM Exams held in October 2015, April 2016, October 2016, and April 2017 and were approved for registration by the Board of Forestry and Fire Protection. Congratulations and welcome!

October 2015 Exam

Travis Salvestro - RPF 3011	Christopher Dow – RPF 3012
Andrew Bray - RPF 3013	Jason Wells – RPF 3013
Chad Freeman – RPF 3015	Ariel Thomson – RPF 3016
Thomas Mason – RPF 3017	Joshua Kegerreis – RPF 3018
Wesley Whited – RPF 3019	Alex Yiu – RPF 3020
Daniel Ziebron – RPF 3021	Alex Stone – RPF 3022

April 2016 Exam

Reid Cody – RPF 3023	Justin Coffman – RPF 3024
Mary Mayeda – RPF 3025	Glen Gerbatz – RPF 3026
Fletcher Nelson – CRM 108	

October 2016 Exam

Eric Jaeschke – RPF 3027	Lynette Short – RPF 3028
Michael McNicholas - RPF 3029	Kristopher Rulon – RPF 3030
Kate Cahill – RPF 3031	Corrina Munger – RPF 3032
Matthew Zenick – RPF 3033	Fey Egan – RPF 3034
Gwyndolyn Ozard – RPF 3035	Eric Taft – RPF 3036
Noah Coonen – RPF 3037	Jethro Mantle – RPF 3038
Samuel Tenneson – RPF 3039	Katie Tierney – CRM 109
Philip Brownsey – CRM 110	Dina Robertson – CRM 111
Sasha Gennet – CRM 112	

April 2017 Exam

Jeremy Couch – RPF 3040	Scott Matheson – RPF 3041
Chad Stout – RPF 3042	Jamie Pusich – RPF 3043
John Vona – RPF 3044	Elizabeth Ebert – RPF 3045
Robert Howe – RPF 3046	Russell Garrison – RPF 3047
Mathew Cocking – RPF 3048	Jacob Birge – RPF 3049
Rachel Norton – RPF 3050	Jeff Stackhouse – CRM 113
Sarah Dawe – CRM 114	

RPF and CRM Examination Announcements

The Fall 2017 examination has been scheduled for October 6th, 2017 and the deadline for NEW applications will be August 11th, 2017. The [examination notice](#) can be located online on the Professional Forester Registration webpage. Those interested in applying for the RPF or CRM examinations are encouraged to contact Dan Stapleton, the Licensing Officer, with any questions about qualifications prior to submitting an application and exam fee. Dan may be reached at 916-653-6634 or by email to dan.stapleton@bof.ca.gov.

California Forestry School – Undergraduate School output

The following data was collected in June. The figures show a stable and growing trend in the graduation of Foresters from SAF accredited forestry programs in California. Humboldt State University leads with 50 graduates in 2015-16.

Humboldt State University 5-year change (+20)

2016-17	No Data
2015-16	50
2014-15	40
2013-14	41
2012-13	36
2011-12	30

UC Berkley 5-year change (+5)

2016-17	10	Projected
2015-16	16	
2014-15	9	
2013-14	13	
2012-13	15	
2011-12	11	

Cal Poly San Louis Obispo 5-year change (+1)

2016-17	No Data
2015-16	39
2014-15	30
2013-14	31
2012-13	39
2011-12	38

In Memoriam

With respect and condolences to family and friends, Professional Foresters Registration notes the passing of the following individuals since the last edition of the Licensing News (*information from online sources*). Please take a moment to honor their memory and service to the profession of forestry.



Forest Boutelle Tilley, RPF No. 315, long-time Mendocino Co. resident, passed away on April 2, 2017. He was 79. After earning a B.S. in forestry at Humboldt State University, Forest began his career with Cal Fire (California Department of Forestry and Fire Protection, CDF) which then spanned the next 27 years. He became the manager of Jackson Demonstration State Forest (JDSF) in 1978, a job which he described as "the best job in CDF", focusing on active forest management, research and demonstration of good forest practices, and public recreation. Forest's high personal standards of fairness, honesty, hard work, and treating others with respect were all reflected in his work. He also was active in community and professional organizations.



John Teie, RPF No. 1203, Retired Deputy Chief John Teie passed away Monday October 17, 2016, in Ukiah Valley Medical Center. He was 73. John was born Andrew John Teie on February 2, 1943, in San Mateo, California. John was raised in the Santa Cruz Mountains, above Los Gatos. He graduated from Los Gatos High School in 1961. He was hired by CDF as a seasonal firefighter and worked at the Saratoga Summit Fire Station. A couple of years later he was promoted to forest fire truck driver at Pacheco Pass. John received his Bachelor of Science degree in Forest

Management at Humboldt State College, graduating in 1966. He was hired by CDF as a Graduate Trainee and assigned to the Region office in Fresno. He was assigned at the Porterville Air Attack Base. He was promoted to battalion chief and assigned as an instructor to the Sierra Conservation Training Center in Susanville. He, later was transferred to the Crescent City battalion in the Humboldt-Del Norte Unit. In 1975, John was promoted to Forester II and assigned to the Mendocino Unit. He worked the rest of his career there, retiring in 1997 as Deputy Chief, Resource Management. For a short time, he was the acting Unit Chief of the Mendocino Unit. John was an exceptional forester, he loved working with loggers and environmentalists. At his retirement, he was given a special award by Earth First for his efforts to bridge the gap between the timber industry and environmentalists. Even though John was a forester, he never lost his passion for fighting fire. For years, he was the Planning Section Chief on one of CDF's command teams.



Harold "Hal" Harvey Wells, RPF No. 2167, Hal Wells, 75, of Chico, California passed away December 15, 2015 at the Enloe Medical Center. Hal was born in Sacramento California on June 6th, 1940 to Harold and Donna Wells. Hal attended Lassen Junior College where he studied forestry

and Humboldt State University where he graduated with degrees in psychology and sociology. During his life Hal lived in Sacramento, Oakland, Soquel and most recently in the community of Cohasset. Hal served in the U.S. Army. He also served as a Firefighter, Engineer, Captain (Firefighter Foreman), Forester I, Forester II, and finished his career as the Resource Manager of the Ben Lomond nursery. Hal enjoyed long distance motorcycle rides and was an accomplished wood turner, master woodworker and an avid reader.



John Henry Hastings, RPF No. 887,

Born October 1, 1921, John Hastings passed away peacefully at home in Monterey, December 6, 2016. He was born in Anaheim, California. John served with distinction in Europe in World War II as an officer in the Army Air Corps. and received the Bronze Star for meritorious service. Following the

war, John completed his education at the University of California, Berkley in 1947 and shortly thereafter began working for the CDF. John rose through the ranks and retired as a Deputy State Forester and Chief of Monterey District V in 1986. John was a great supporter, Charter Member and Member Emeritus of the Monterey Bay Aquarium and a member of the Northern California Section of the Society of American Foresters.

Mervin Paul Pyorre, RPF No. 1494. Mervin was born in Fort Bragg, Calif., on May 7, 1942 and passed away in Auburn, Calif. on July 7, 2015. Merv graduated from Fort Bragg High School in 1960 and obtained a degree in Forestry from Humboldt State University. He worked for several years in the Assessor's Office of Placer County as their timber appraiser. The majority of his career as a forester was spent for the State of California in Mendocino County. He lived in the Ukiah area and also had an office in Fort Bragg. He retired in 2001 and moved back to Cool, Calif. One of Merv's greatest joys in life was endurance riding on his beloved horse Rocky. He and Rocky completed the Tevis (a hundred-mile endurance ride) eleven times, and Merv was on the board of the Tevis for several years and served as the Ride Director. During his retirement years Merv and his wife enjoyed exploring North America in their camper. They also traveled around Europe in a motorhome and visited Finland, the home of Merv's ancestors.

Henry Jackson 'Mike' Farmer, RPF No. 1660, known throughout his life as Mike, was born on December 14, 1924, in Nogales, Arizona, where he spent the first ten years of his life. In 1946, he went to work for the United States Fish and Wildlife Service. Mike then went to work for the State of California's Department of Fish and Game and worked for them for approximately nine years. During

that time, Mike worked in Point Reyes, Geyserville, Tehachapi, Plymouth, Camino, Columbia and Sutter Creek. Mike's career included game management, which involved trapping, removing renegade bears, improving game habitat, monitoring of hunters, studying the Tule Elk herd, finding BLM owned land, enforcing game laws. In the 1950's, he was hired by East Bay Municipal Utilities District (EBMUD) to be the first recreation area supervisor at Lake Pardee and was involved in the process of building the recreation facility. Mike was an experienced and certificated fire fighter and volunteered for Jackson Valley Fire Protection District for many years and was the Fire Chief. He often was hired by CDF to fight fires throughout the State. He was a State licensed professional forester and a State licensed agricultural engineer.



Dale Frederick Holderman, RPF No. 69, Dale Frederick Holderman passed away at his Santa Cruz home with his loving family at his bedside, following a brief battle that he fought against cancer. He was 80 years old. Mr. Holderman was born December 5, 1935 and raised in Azusa, California. Following his high school graduation, he attended Oregon State University. Mr. Holderman went on to earn his Bachelor's Degree in Forestry from Colorado State University and established a career of more than 50 years in Forestry. Mr. Holderman worked for the U.S. Forestry Service, and for more than 30 years, as a forester for Big Creek Lumber where he leaves many dear friends, and colleagues. His family will forever remember his passion for trees, particularly the Albino Redwood species, and the grafting techniques that he developed helping to promote their growth. Co-Authoring "The White Redwoods Ghosts of the Forest" and owning the rights to the patents of both Modifications in Albino Redwoods, and gopher traps, were a testament to his scientific and mechanical talents. The trees that grace the family home in the Santa Cruz Mountains of white and green branches and leaves, remain his living gifts by his grafting of an Albino Redwood with a regular redwood tree.



Thomas Michael Wulfert, RPF No. 287, passed away unexpectedly on Tuesday, October 25th, 2016 in Redding, CA at the age of 72. Tom was born in Sacramento, CA on May 4th, 1944. He lived most of his life in Red Bluff, CA where he was the owner of a land surveying company. He was a practicing forester participating in many of the largest timber and forestry industry organizations in California. He was an alumnus of Christian Brothers and Bishop Armstrong High Schools graduating in 1962. He attended American River College and Humboldt State University where he received his Bachelor's Degree in Forestry.



Wesley Wilson Guthrie, RPF No. 2886, of Auburn, Calif. died suddenly in a vehicle accident on February 18th. Wes was born on June 10, 1983. He was raised in Foresthill and graduated from Placer High School in 2001, and went to Sierra College before transferring to Humboldt State University where he graduated with his wife, Kelly Jo Pavlica. Together they spent time living in Humboldt, Siskiyou, and Eldorado counties before returning to Auburn, Calif. to raise their children closer to their families. Wes began working

for the US Forest Service at 18 years-old and spent several seasons there while attending college. He later worked in the private timber industry and became a Registered Professional Forester. In 2009, he returned to the USFS, spending much of that time on the Tahoe National Forest. Wes was an ethical, conscientious, and productive man who truly cared for the land. While Wes was happiest spending time with his family, he enjoyed fishing, hunting, his two very special dogs, and snowboarding. He was also a talented artist and woodworker. Wes loved the outdoors and the beauty of nature-none more than the Sierra Nevada Mountains that were his true home. A friend to all, Wes was known for his rare combination of intelligence, common sense, mild-manner, and good humor. He was admired and respected by so many.



Warren Alfred Carleton, RPF No. 1236 was 96 when he peacefully passed away, April 22, 2017, surrounded by his wife, Amelia, family and friends. Warren was born June 2, 1920 in San Francisco, the second of five children of Florence and Charles Carleton. Raised in Berkeley, CA, Warren attended Berkeley High School where he excelled in football and track. As a student at the University of California, Berkeley, Warren became enthralled with Forestry.

He was also an avid fan of Cal athletics, running track and cheering for the Golden Bears. He loved to sing the many tunes of the Cal Band and give the Axe yell. He received his Bachelor's in Forestry in 1942 and then headed north to Alaska and worked on the ALCAN Highway. This experience on the ALCAN allowed him to enlist in the Army in World War II as an engineer. Following basic training and Officer Candidate School, he was elevated to the rank of Lieutenant. Warren shipped out to the South Pacific, primarily stationed in the Philippine Islands. He returned home from the service and followed his passion for Forestry, settling in Amador County. He started as a forester at Winton Lumber Company and then worked his way up to logging superintendent at American Forest Products (later Bendix). He helped establish the Sierra Cascade Logging Conference and was president for several years. He

also helped to start the Forest Forum and served on many committees. His passion for Cal also showed in his work. He always hired Cal grads and support them in their career. He shepherded the careers of Chip Walker, John Hofman, and Ed Struffenegger, who remained close, loyal friends to Warren until his death. He also worked with Keep Green California. He retired from Bendix in 1987. Warren became active in Jackson politics, serving on the City Council, Planning Commission, Cemetery Committee and even as Mayor. Warren actively recruited local students to attend Cal through scholarships offered by the Cal Alumni Association.



JAMES ROBERT "J. R." McCOLLISTER, RPF No. 674, passed away March 29th, 2017 after a lengthy illness, at home with his family and beloved dogs. He was 75. Born in Red Bluff, he graduated from Red Bluff High. He then graduated from Humboldt state, with an associate and BS in Forestry and was a California registered professional forester. He retired from CDF in April 1995. He started as a seasonal firefighter in 1958, retiring as Unit Chief, Humboldt - Ranger Unit where he over saw the resource protection of over two million acres. J.R. maintained a Cow Calf operation on his ranch outside Red Bluff.



Gary Irwin Munsey, RPF No. 544, passed away on Monday, November 21, 2016, at Mercy Medical Center in Redding, California, with his family by his side. He was 78. Gary was born March 19, 1938, in Burlington, Colorado. Gary graduated from Gardena High School and went on to graduate from Humboldt State College where he graduated in 1960. He was in the United States Army Reserves from 1961 to 1967. Gary was a Registered Professional Forester and a member of the Society of American Foresters. He worked for the United States Forest Service for 34 years before retiring in 1994. He worked all over California, from Bass Lake (Sierra National Forest), Redwood Ranger Station (Six Rivers National Forest), Gasquet (Six Rivers National Forest), Ukonom (Klamath National Forest), Santa Barbara (Los Padres National Forest), and then Redding (Shasta-Trinity National Forest) in 1977 until his retirement in 1994. His jobs ranged from seasonal such as timber cruising and firefighting to District Ranger and finally finished as a Personnel Officer for the Shasta-Trinity National Forest. After his retirement, he was proud to serve on the Shasta County Grand Jury in Redding, CA, from 1995 to 1996.

Lost in the Woods

The Licensing Office is generally successful in locating folks. We often get leads on the location of RPFs or CRMs that we have lost contact from

other peers within the profession. If that does not work, then Google search and social media will often provide positive results. At this time we have three RPFs "lost in the woods":

Noel Olson, RPF 429
Jarrold Cone, RPF 1024
Stephon Carter, RPF 2080

All had their licenses revoked for non-payment in 2016.

Regardless of our success in locating persons, please continue to help out by remembering to contact the Licensing Office within 10 days of relocation or change of contact information as per 14 CCR § 1606. Maintaining contact with the Licensing Office will alleviate your potential association with the clandestine "Lost in the Woods" crew.

Outreach to Potential Future RPFs

A rough accounting of current RPF licensing trends reveal that we are losing about 1% of valid RPF registrants annually, mostly due to retirement. The number of jobs listed on SAF and CLFA websites that require an RPF appear relatively high and are seemingly going unfilled for an extended period of time. As the RPF numbers decline, we are seeing the Forester Registration fund become strained for lack of new registrants and declining renewals. The Office of Foresters Registration is making a concerted effort in the following months to initiate outreach to SAF university and community college forestry programs in California, in the hopes that more students will be inclined to stay in State and get licensed. Outreach will be conducted through campus visits and participation in educational programs when those opportunities present themselves. Additionally, outreach to associated forestry occupations such as arborists, urban foresters, wildland firefighters as well as federal land managers may be considered. The need for qualified professionals in the forestry sector is at a high with important issues related to forest health, fuel reduction, fire re-introduction and rehabilitation, water management and carbon accounting all being discussed in the halls of the Assembly and Senate in Sacramento. This is an important period for the forests in our State. If you are an educator in the natural resource field or are the lead in an organization representing forestry related occupations, feel free to contact the Office of Foresters Registration for more information about licensing requirements and to possibly schedule an outreach presentation to your group (916) 653-8031.

Disciplinary Actions Report

Since the last issue of the Licensing News, complaints have been filed and are under investigation for review by the PFEC. One disciplinary case is active and one complaint investigation is open as follows:

CASE NUMBER: 329

RPF: **Steven Daus, No. 2524**

ALLEGATIONS:

It was alleged that the RPF's record of violations of Forest Practice Rules indicated a pattern of practice that displayed gross negligence and incompetence in applying the Forest Practices Rules of the State of California. The accused was issued two (2) Notices of Violation of Forest Practice Laws and Regulations by Forest Practice Inspectors from the California Department of Forestry and Fire Protection (CAL FIRE) on March 14, 2016. The Notice of Violations spanned two (2) different timber harvesting documents and were issued because of professional failure directly attributable to the accused professional practice of Forestry. The RPF entered into a stipulated settlement and disciplinary order on August 26, 2016 that included a license revocation that was stayed, the board opting instead for a nine (9) month license suspension including three (3) years' probation under conditions requiring bi-annual submission of work products and supervision of work products by an RPF in good standing, among other requirements. If any of the stipulated requirements were violated during the probationary period it could result in revocation of the probation and revocation of the license. On or about February 13th, 2017, the RPF attempted to enter into a professional services agreement in conflict with the license suspension contained within the stipulated settlement and disciplinary order. Additionally, the RPF violated various California codes when they failed to obtain and list the appropriate notice submitter on a less than 3-acre conversion and by submitting a drought mortality exemption within the footprint of an approved NTMP under a different RPF's license for which he had never indicated to the board that he was to utilize as his supervising RPF. Additionally, the RPF's first bi-annual report of his work products had omissions and were incomplete as to the requirements as agreed in the stipulated settlement and disciplinary order.

AUTHORITY:

As authorized under PRC §777, the Board of Forestry and Fire Protection further disciplinary action is currently under consideration.

CASE NUMBER:

332

ALLEGATIONS:

It is alleged that the RPF failed to submit a Notice of Timber Operations (NTO) and a letter of Technical Assistance (TA) for Northern Spotted Owl prior to operations per the requirements of the approved NTMP. Additionally, the RPF failed to submit amendments in a timely manner on a second NTMP. An investigation of the complaint is ongoing.

Meetings of Interest and Special Announcements

PFEC Meeting Date

The next PFEC meeting is scheduled for August 24th, 2017. The public is free to attend open session meetings in person. Agendas and other information can be found 10 days prior to the meeting date at:

http://www.bof.fire.ca.gov/professional_foresters_registration/

Board of Forestry and Fire Protection Meeting Dates.

The Board's next meeting is scheduled for August 22nd and 23rd in Sacramento, CA. The full Board meeting is on the 23rd. The remaining 2017 and 2018 Board meeting schedule has been set and can be viewed online at the following web link: http://www.bof.fire.ca.gov/board_business/

The 2017 Cal Fire Certified Archaeological Surveyor refresher classes are scheduled as follows for 2017:

Class #157R – Thursday, November 16, 2017
Granzella's Conference Center, Williams, CA

Class #158R – Friday, November 17, 2017
Granzella's Conference Center, Williams, CA

Class Schedule: Registration: 8:30 AM Class: 9:00 AM – 4:30 PM

To retain your certification, you must register and complete Refresher Class Training every five years. If you attended a training session in 2012 you need to refresh in 2017. To check your status, go to:

http://calfire.ca.gov/resource_mgt/archaeology-training.php Click on 'Training Record of Certified Archaeological Surveyors' to determine if you need to attend one of the classes. The registration fee is \$180.00. To Register, contact CLFA at clfa@volcano.net to get the appropriate forms.

Professional Foresters Registration Fund

As of May 31, 2017, the fund balance was approximately \$ 227,702. The funds sustainability is under review by the PFEC as a result of the continued decline in registrants from retirement and withdrawal. An in-depth evaluation of fund will take place upon the publishing of accounting reports sometime after the fiscal year ending June, 30, 2017.

Tree Mortality Facts and Figures

The cover photo of this year's Licensing News is a common scene in the Sierra-Nevada nowadays. If anything, it represents a milder condition when compared to entire stands of trees now dead in the southern Sierra. This unprecedented tree mortality distributed over large contiguous areas increases extreme wildfire conditions putting our natural resources, infrastructure and personal safety at risk. The sustained drought and ensuing beetle infestation over the last few years has killed an astounding 102 million trees in California from 2010 to 2016. This according to the Tree Mortality Facts and Figures published by the California Tree Mortality Task Force. The following are tables from that April 2017 report.

Table 1a: Estimated Cumulative Number of Dead Trees in California: 2010 –2016

Time Period	Estimated Number of Dead Trees
2010	3.1 million
2011	1.6 million
2012	1.8 million
2013	1.3 million
2014	3.2 million
2015	29 million
2016	62 million
Total	102 million

Table 1b: Estimated Cumulative Number of Dead Trees in High Priority Counties of California: 2010 –2016

County	Estimated Cumulative Number of Dead Trees High Priority Counties							
	2010	2011	2012	2013	2014	2015	2016	All Years
Amador	7,000	2,000	600	2,000	17,000	79,000	682,000	789,600
Calaveras	8,000	2,000	2,000	4,000	144,000	237,000	1,875,000	2,272,000
El Dorado	53,000	19,000	5,000	11,000	47,000	200,000	1,359,000	1,694,000
Fresno	82,000	59,000	82,000	65,000	269,000	4,300,000	11,912,000	16,769,000
Kern	79,000	18,000	8,000	23,000	176,000	3,300,000	2,994,000	6,598,000
Madera	15,000	8,000	6,000	31,000	55,000	1,900,000	8,972,000	10,987,000
Mariposa	18,000	10,000	21,000	72,000	68,000	1,200,000	6,562,000	7,951,000
Placer	90,000	16,000	5,000	5,000	21,000	80,000	557,000	774,000
Tulare	234,000	46,000	57,000	67,000	272,000	6,800,000	12,957,000	20,433,000
Tuolumne	39,000	15,000	45,000	83,000	287,000	997,000	6,213,000	7,679,000
Total	625,000	195,000	231,600	363,000	1,356,000	19,093,000	54,083,000	75,946,600

Table 2b: Acres of Tree Mortality Detected in California by

Ownership	Acres*	Rounded Acres*
U.S. Forest Service	4,592,552	4,593,000
Other Federal	734,431	734,000
Private, State and Local	2,348,292	2,348,000
Total**	7,675,274	7,675,000

Ownership: 2010- 2016

*All overlap between surveys was removed from data prior to analysis.

** Totals may not match due to rounding

Table 2a: Acres of Tree Mortality Detected in California High Priority Counties: 2010 –2016

County	Rounded Acres* <i>Rounded to the nearest 1000</i>
Amador	79,000
Calaveras	160,000
El Dorado	312,000
Fresno	552,000
Kern	353,000
Madera	355,000
Mariposa	290,000
Placer	154,000
Tulare	769,000
Tuolumne	437,000
Total	3,461,000

*All overlap between surveys was removed from data prior to analysis.

Table 2c: Acres of tree mortality detected in National Forests of the south Sierra from 2010 –2016.

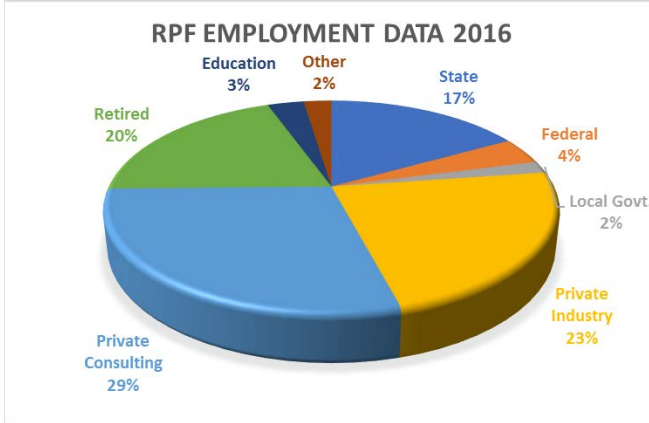
National Forest	Rounded Acres* <i>Rounded to the nearest 1000</i>
Eldorado	220,000
LTBMU	21,000
Sequoia	595,000
Sierra	696,000
Stanislaus	377,000
Tahoe	178,000
Total	2,087,000

*All overlap between surveys was removed from data prior to analysis. LTBMU = Lake Tahoe Basin Management Unit

If you are interested in seeing the full report it can be found using the following web link: http://www.fire.ca.gov/treetaskforce/downloads/TMTFMaterials/Facts_and_Figures_April_2017.pdf

Employment Survey

Shuhani Patel of the Foresters Licensing Department has summarized the employment survey response received from the last renewal cycle. The survey data indicates that private consulting RPFs remain the largest employment group, followed by RPFs employed by industry and then the State. RPFs in retirement make up 20% of the registrants. Comparisons to the 2015 survey reveal RPFs in private industry down 3%, Private Consulting up by 2%, State employment up by 2%, and retired RPFs up 1%.



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Study: Wildfires, Climate Change Could Make Sierra a Polluter

June 14, 2017

By Jason Alvarez. UC Merced Communications



Yosemite Valley in the western Sierra Nevada Mountains.

What if nature were to become a polluter, discharging millions of tons of planet-warming carbon into the atmosphere in much the same way as diesel-fueled trucks or coal-fired power plants? This nature-as-polluter scenario might seem far-fetched, but it's well on its way to becoming reality, according to a recent study co-authored by UC Merced Professor LeRoy Westerling.

In a paper published recently in *Scientific Reports* — “Potential decline in carbon carrying capacity under projected climate-wildfire interactions in the Sierra Nevada” — Westerling and collaborators from the University of New Mexico and Penn State University used three climate models and data from the Intergovernmental Panel on Climate Change to examine how rising global temperatures and increasingly severe wildfires will affect Sierra Nevada forests.

Their conclusion: Changing conditions will turn today's Sierra Nevada forests into tomorrow's greenhouse gas emitters.

“Forests play an important part in regulating the levels of atmospheric carbon,” Westerling explained. “Forests are carbon sinks, essentially giant stockpiles of carbon. Forests are also active carbon consumers. They remove carbon dioxide from the air and convert it into biomass. This traps the carbon, which is no longer free to act as a greenhouse gas in Earth's atmosphere.”



Professor LeRoy Westerling.

But projections from Westerling and colleagues suggest that this may change. According to their models, Sierra Nevada forests will experience both a dramatic loss of stored carbon and a substantial decline in their ability to remove CO₂ from the atmosphere. Rising temperatures are creating a warmer, drier Sierra Nevada climate. Westerling previously showed that these changes are leading to dramatic increases in the frequency, size and duration of wildfires. The new study suggests that these same changes will make it harder for forests to regenerate, leading to a loss of forest density, with plants better suited to the new climate eventually replacing trees.

“As trees are displaced, the Sierra Nevada will lose its ability to sequester carbon,” Westerling explained. “The plants that spring up in their place will be significantly smaller, making them less effective carbon sinks than the trees they replaced.” But the carbon stored in forest trees has to go somewhere.

As trees are burned in more frequent wildfires, and as dead trees undergo decomposition, Westerling and his colleagues predict that as much as 73 percent of the carbon in Sierra Nevada forests will be released, resulting in a dramatic spike in atmospheric carbon. This will transform the Sierra Nevada from a carbon sink into a carbon emitter, making the nature-as-polluter scenario a reality.

Westerling and his collaborators note that their predictions are actually conservative. The effects might be more extreme than their models suggest.

“Our study does not account for a number of factors that might influence the dynamics of forest carbon,” Westerling said. “However, the factors we ignored are likely to accelerate the loss of forest. Our predictions likely underestimate the severity of actual effects.”

Though the predictions are alarming, the authors remain optimistic, hopeful that their findings can contribute to a larger conversation about environmental policy and promote avenues of research that lead to sustainable forest management.