

FALL 2016

BOARD FOR PROFESSIONAL ENGINEERS, LAND SURVEYORS, AND GEOLOGISTS

# BULLETIN

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## Former Board Member Pat Tami Elected NCEES President-Elect

Delegates elected Patrick Tami, PLS, National Council of Examiners for Engineering and Surveying (NCEES) President-elect at the organization's 95th annual meeting, held August 24–27 in Indianapolis. He will serve as President-elect for the 2016–2017 term and as President the following year.

Mr. Tami was a member of the California Board for Professional Engineers, Land Surveyors, and Geologists (BPELSG/Board) from 2006–2016. He previously served as NCEES Western Zone Vice President for the 2008–10 and 2014–16 terms. He also served on a number of NCEES committees, including chairing the Advisory Committee on Council Activities and the Committee on Uniform Procedures and Legislative Guidelines. A Professional Land Surveyor for more than 30 years, Mr. Tami is currently principal surveyor of R.E.Y. Engineers Inc., a firm providing civil engineering and surveying services. He is a past President of the California Land Surveyors Association, a past Chair of the East Bay Municipal Engineers Association and the Bay Counties Association of Civil Engineers and Land Surveyors, and a former member of the board of directors for the Western Federation of Professional Surveyors. In the 96-year history of NCEES, Mr. Tami will be only the fourth representative from California to serve as President and only the fourth licensed land surveyor!



*Former Board member Pat Tami received his commission from 2016–2017 President Dan Turner to serve as 2016–17 President-elect.*



## Message From the Executive Officer

RICHARD B. MOORE, PLS

Every year during the summer, the National Council of Examiners for Engineering and Surveying (NCEES) conducts its annual meeting where all 70 member boards are presented with reports on NCEES activities and vote on standard policies and procedures related to the availability of examinations for engineer and surveyor licensing purposes. There were many issues to be discussed and voted on—some of which could lead to direct or indirect impact on those individuals seeking licensure in California—related to various topics such as the definition of structural engineer, state-to-state mobility for licensees, and more importantly, changes to how applicants register and costs associated with the development and administration of national examinations.

First and foremost, Patrick Tami, PLS, 2006–16 Board member for BPELSG and 2014–16 NCEES Western Zone Vice President, was unanimously elected to serve as the NCEES President for 2017–18. Mr. Tami will begin his tenure immediately after the conclusion of the annual meeting by serving as President-elect during 2016–17 before assuming his role as NCEES President. Congratulations to Pat Tami from all of us at BPELSG!

The national Principles of Surveying (PS) examination is scheduled to transition to a computer-based testing (CBT) format in October 2016, and the cost that approved candidates will be required to pay for that examination was approved at the 2015 NCEES annual meeting. At this year's meeting, member boards were asked to vote on a recommended cost to candidates for the national Professional Engineer examinations—the first of which (chemical) is scheduled to transition to CBT beginning in October 2017. Various floor motions were presented and debated related to this cost and included proposals to change the cost for the Fundamentals of Engineering and Fundamentals of Surveying examinations. This will be discussed more in an examination update article in this *Bulletin*.

Also in this edition of the *Bulletin*, you will see licensing statistics presented in new ways as well as a brief recognition of the 125th anniversary of the licensing of land surveyors in California and the United States. We hope you continue to enjoy our *Bulletin*.

### BOARD MEMBERS

**President:** Coby King, Esq.

**Vice President:** Mohammad Qureshi, P.E., Ph.D.

#### **Public Members:**

Fel Amistad

Asha Malikh Brooks Lang

Chelsea Esquibias

Cynthia Guzman

Kathy Jones Irish

William "Jerry" Silva

#### **Professional Members:**

Natalie Alavi, P.E.

Eric Johnson, P.E.

Elizabeth Mathieson, CEG

Karen E. Roberts, P.E.

Robert Stockton, P.E.

Steve Wilson, PLS, P.E.

Richard B. Moore, PLS,  
Executive Officer

Brooke C. Phayer,  
*Bulletin* Editor

## Board News

As noted on the *Bulletin's* front page, former Board member Pat Tami, PLS, was elected National Council of Examiners for Engineering and Surveying President-elect at the organization's recent annual meeting. He will serve as President-elect for the 2016–17 term and as President the following year.

Coby King was elected to serve as Board President for Fiscal Year 2016–17. He was originally appointed to the Board by Governor Brown in May 2013. King has been President and Chief Executive Officer for public affairs at High Point Strategies LLC since 2013. King earned a juris doctorate degree from Georgetown University Law Center.

Mohammad Qureshi was elected to serve as Board Vice President for Fiscal Year 2016–17. Qureshi has been Chief of Traffic at the San Bernardino County Department of Public Works since 2012. Qureshi earned a Ph.D. in civil engineering from the University of Tennessee and a master of science degree in civil engineering from the University of California, Berkeley.

### Board Tour at Stringfellow

On June 8, 2016, representatives of the Board had the opportunity to take a tour of the new \$52 million groundwater treatment facility at the Stringfellow Superfund Site. It is one of the most significant and storied hazardous waste sites in the country and has spurred the creation of many hazardous waste laws and regulations.

During operation, from 1956 until 1972, 34 million gallons of liquid hazardous waste were disposed at the 17-acre disposal area. In 1998, the Department of Toxic Substances Control (DTSC) assumed sole responsibility for future cleanup work at Stringfellow on behalf of the state of California.



*Past President Bob Stockton was thanked by Executive Officer Ric Moore for his dedication to the Board.*



The state-of-the-art Pyrite Canyon Treatment Facility is an upgraded, modernized, and reliable replacement for the aging pre-treatment plant and positions the state to continue the cleanup at this site for more than 30 years.

For more information regarding the Stringfellow or the new treatment plant, visit the DTSC website at [www.dtsc.ca.gov](http://www.dtsc.ca.gov).

*Left to right: Board attorney Michael Santiago, Board member Betsy Mathieson, Senior Engineering Registrar Susan Christ, and Senior Engineering Registrar Mike Donelson.*



## Changes in Application Process Means More Examination Opportunities

As part of a continuing effort to meet its strategic goal to provide more opportunities for examination and licensing, the Board made changes to the application and examination process, coinciding with the opening of National Council of Examiners for Engineering and Surveying's (NCEES') examination management system scheduled for December 12, 2016. After that date, licensure candidates in California will be able to register online on the NCEES website for the national exam without having to apply to the Board first. The only criteria necessary to be able to do this is that the candidate must previously have passed the fundamentals examination pertaining to his or her intended discipline (engineering or surveying) and agree to abide by NCEES' and the Board's examination policies.

For those examinations that are still paper-based and administered each spring or fall by NCEES, this means the candidate can register with NCEES any time the NCEES online registration system allows them to do so. A candidate can also schedule the national examination without first submitting an initial application or refile application to the Board.

For those examinations that are computer-based (currently, the Fundamentals of Engineering, Fundamentals of

Surveying, and Principles of Surveying examinations) and administered continuously, this means that each candidate can register with NCEES any time the NCEES online registration system allows them to do so. A candidate can also schedule the national examination without first submitting an initial application or refile application to the Board.

Once the appropriate national examination is passed and the candidate has met all experience requirements in accordance with California laws, the candidate then submits an application in their desired discipline for consideration for licensure.

The requirements to pass any California state exams required for licensure have not changed. If any California state exams are required, the candidate must submit the application for licensure to the Board with the required fees for processing and review. Once the application has been reviewed and the applicant is eligible for examination, the applicant would then be notified by the Board of their authorization to schedule taking the California state exams.

For further details, check back on the Board's website ([www.bpelsg.ca.gov](http://www.bpelsg.ca.gov)) after the administration of the fall 2016 exam.

## New Plastic ID Cards for Licensees

The Board has heard your requests and is pleased to announce the long-awaited return of plastic ID cards. We are issuing the cards as an appreciation to all who have pursued licensure. The plastic ID card recognizes the distinguished title of being a professional engineer, land surveyor, geologist, or geophysicist. It will display the licensee's name, professional title, and license number. You may carry and present the card as proof of Board licensure. However, it does not replace your paper pocket certificate or your wall certificate.

Please be patient as the Board works to send plastic ID cards to all licensees in the upcoming weeks. All licensees will receive cards for each active or retired license they hold.

If you have any questions, please contact Linda Liu by phone at (916) 263-2232 or e-mail at [Plastic.Cards@dca.ca.gov](mailto:Plastic.Cards@dca.ca.gov).

Please take a moment to sign up for the e-mail subscriber list at <https://www.dca.ca.gov/webapps/bpelsg/subscribe.php> to receive notifications about Board activities, meeting notices, publications, notices of proposed legislation, and regulatory actions.



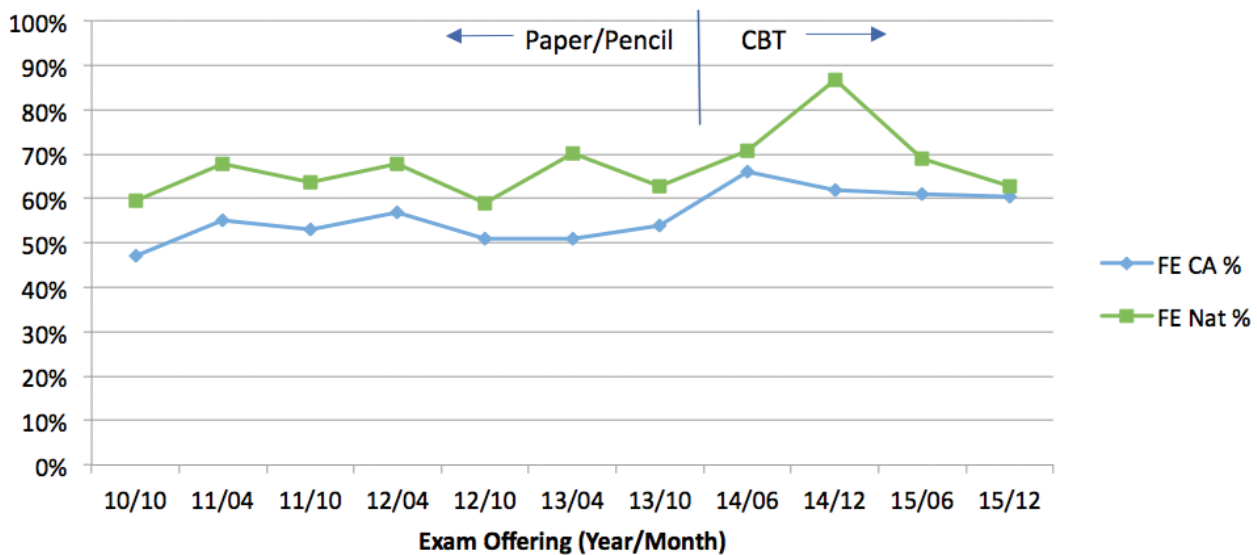
*Board Executive Officer Ric Moore with new plastic, wallet-sized ID cards.*



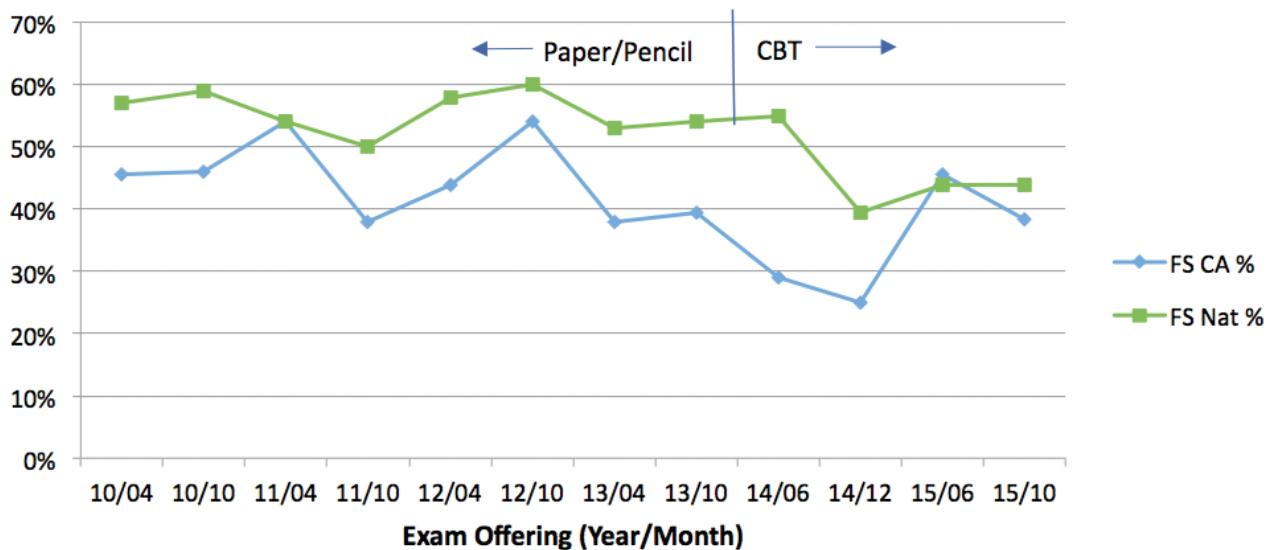
## Digging Deeper: Understanding Our Certificate Holders and Licensees

Staff continually tracks, researches, and analyzes trends and changes in our applicant and licensing population to examine growth and achievement. Each year, our fall *Bulletin* focuses on this research. This year, we'd like to share some information with our readers regarding our in-training certificate holders and licensees. The charts identify the National Council of Examiners for Engineering and Surveying (NCEES) Fundamentals of Engineering (FE) and Fundamentals of Surveying (FS) pass rates for California test takers versus the national average. Beginning January 2014, all FE and FS examinations were converted to computer-based tests (CBT) as identified by the line break on the chart. The information in the charts dates back to 2010 and extends to the end of 2015.

### FE Pass Rates (CA v. National)



### FS Pass Rates (CA v. National)



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Digging Deeper (continued from page 5)

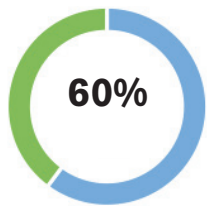
## NCEES Exams Stats

Fundamentals of Engineering (FE) and Fundamentals of Surveying (FS) exams are crucial components to the initial licensing process. Passing these exams puts one on the path toward professional licensure. The charts below provide data from the National Council of Examiners for Engineering and Surveying (NCEES) website ([www.ncees.org](http://www.ncees.org)), describing California examinees who took the exams in 2015. After passing the exam, individuals seeking to continue on to licensure apply to the Board for an Engineer-In-Training (EIT) or Land-Surveyor-In-Training (LSIT) certificate.

### FE 2015 Data (California)



**5,220** Total  
number of examinees tested



**PASS RATE**  
of all FE examinees



**3,141** Total  
number of examinees passed



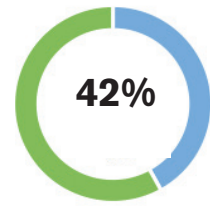
**2,582** Total  
number of certificates issued

49% tested and received certification at an Engineer-In-Training (CA)

### FS 2015 Data (California)



**143** Total  
number of examinees tested



**PASS RATE**  
of all FS examinees



**60** Total  
number of examinees passed



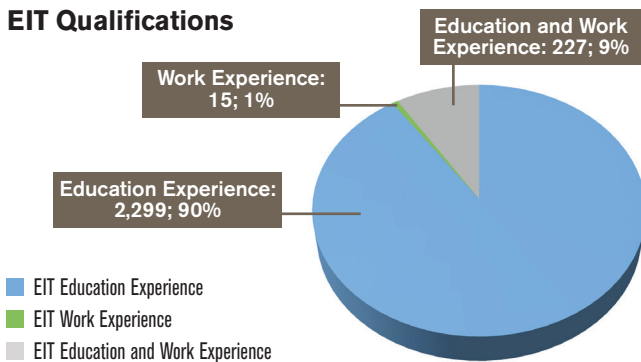
**49** Total  
number of certificates issued

34% tested and received certification as a Land-Surveyor-In-Training (CA)

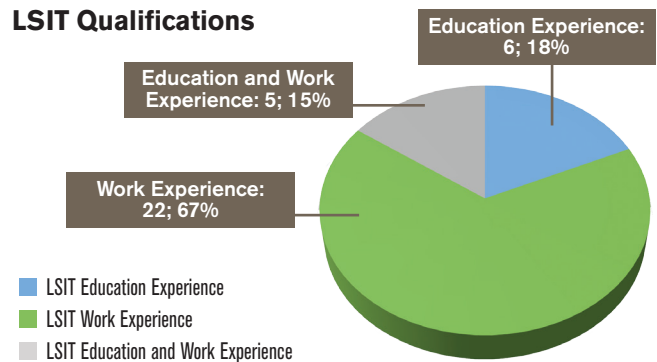
## EIT and LSIT Qualifications

These charts identify applicants' qualifications to achieve their certificates, as well as how many and what percentage of applicants used which type of qualification. Education is the predominate qualification for EIT certificate holders, while LSITs tend to favor work experience. Data was collected over one year.

### EIT Qualifications



### LSIT Qualifications



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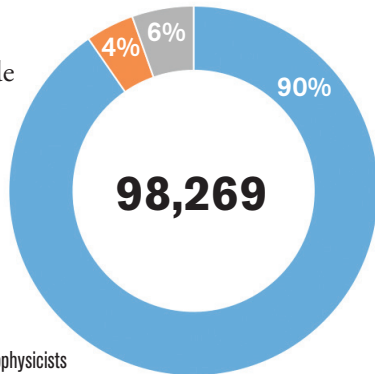
## Digging Deeper (continued from page 6)

### Total Active Licensees

California has the largest population of licensed engineers, land surveyors, geologists, and geophysicists compared to every other state, commonwealth, or territory. Let's take a closer at this population and number of professionals in the state.

**Note:** Total does not include title authority or certificate holders (geotechnical, structural, engineering geologist, and hydrogeologist).

- Engineers
- Land Surveyors
- Geologists and Geophysicists

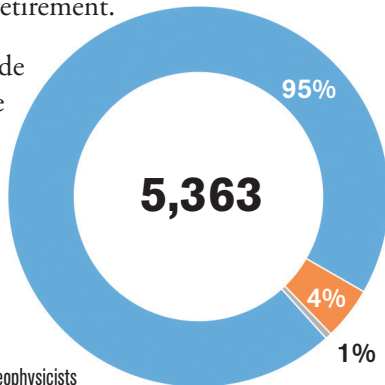


### Total Retired Licensees

Our retired population has grown over the past few years as many in the profession have moved on from professional practice into retirement.

**Note:** Total does not include title authority or certificate holders (geotechnical, structural, engineering geologist, and hydrogeologist).

- Engineers
- Land Surveyors
- Geologists and Geophysicists



LICENSE TYPE	ACTIVE
<b>Engineers</b>	
Civil	55,745
Mechanical	15,226
Electrical	10,012
Chemical	1,951
Traffic	1,492
Control Systems	1,021
Fire Protection	775
Quality	394
Nuclear	364
Petroleum	332
Industrial	323
Safety	319
Manufacturing	318
Mettalurgical	212
Corrosion	183
Agricultural	138
Consulting	4
Photo Surveyor	1
<b>Total</b>	<b>88,810</b>
<b>Land Surveyors</b>	
Land Surveyor	4,160
<b>Total</b>	<b>4,160</b>
<b>Geologists and Geophysicists</b>	
Geologist	5,137
Geophysicist	162
<b>Total</b>	<b>5,299</b>
<b>Grand Total</b>	<b>98,269</b>

LICENSE TYPE	RETIRED
<b>Engineers</b>	
Civil	2,017
Mechanical	844
Electrical	540
Chemical	112
Traffic	123
Control Systems	294
Fire Protection	64
Quality	272
Nuclear	147
Petroleum	25
Industrial	149
Safety	167
Manufacturing	200
Mettalurgical	50
Corrosion	46
Agricultural	38
Consulting	5
Photo Surveyor	1
<b>Total</b>	<b>5,094</b>
<b>Land Surveyors</b>	
Land Surveyor	240
<b>Total</b>	<b>240</b>
<b>Geologists and Geophysicists</b>	
Geologist	25
Geophysicist	4
<b>Total</b>	<b>29</b>
<b>Grand Total</b>	<b>5,363</b>

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## Board Subscribers List Reminder

Receiving e-mail notifications regarding meetings, legislation, or e-news from the Board couldn't be easier. Simply join our subscribers list on the Board's website. You will then be connected to new issues of the Board *Bulletin*, notified when the Board holds meetings, and receive information related to consumers, candidates, or licensees.

Joining the subscribers list can be done in just a few easy steps:

1. Visit the Board's website at [www.bpelsg.ca.gov](http://www.bpelsg.ca.gov).
2. Click on "Subscribe to the Board's E-mail List" in the "Quick Hits" section.
3. Enter your e-mail address and the specified text or audio link to validate submission of your data.
4. Click on "Submit," then you will receive a confirmation e-mail.



## Looking Back on Exam Days

Achieving your license is challenging, and the path is different for everyone. Here are some exam-taking memories from a few of our licensed Board members.



**Karen Roberts**  
**Structural Engineer**  
**(C40567, S4643)**

I took my civil exam way back in history—a time of big hair bands and acid-wash jeans, and when California still used its own exam.

I was just a few years out of college at that time, so my self-studying and exam skills were still pretty fresh. Here are a few snapshot images: pre-dawn wake-up for a 50-mile drive; milk crates full of books on a dolly; huge fairground exhibition hall; waves of panic and relief—soil settlement problem (oh no!), concrete column problem (yes!), etc. Then a drive home in a daze.

I waited 15 years after that experience to take the structural exam, which was quite a bit more rigorous, but closer to home. The hardest part about taking this exam was that after an exhausting full day of testing, we had to pack up, go home, quell the obsessing and spinning of our brains so that we could sleep, and then show up for the second full day—a real test of fortitude. I took a review course to prepare for this exam, and I'm certain this was the key to my success and a great refresher in general.



**Dr. Mohammad Qureshi**  
**Traffic Engineer**  
**(C75297, TR2542)**

I took my EIT [Engineer-in-Training] exam back in 1987 in the Oakland Convention Center. I don't recall much about anxiety leading up to the exam, but remember

leaving the exam thinking I had failed and vowing to bring more references. Luckily I was wrong and passed, and did not have to worry about it.

For my practice exam, I took it in April 1996 when the format was different—back then, it was choose four

problems out of 12. However, I remember taking lots of reference books and not needing them. I also remember being very strategic in only working the problems I was proficient in. I walked out of the afternoon session with lots of time to spare and felt very confident.

In 2009, I took the traffic exam at the Pomona fairgrounds. I recall being frustrated by not finding the answer to one question in particular because it involved finding the right figure in the MUTCD [Manual on Uniform Traffic Control Devices] and I could not find it easily. Other than that, it was relatively easy and stress-free for me.

I also took the California-specific exams for my Civil PE [Professional Engineer] that year. I failed the seismic exam the first time and then passed after taking a review course. The survey was straightforward.

The advice I give to young engineers is to remember that the FE [Fundamentals in Engineering] and PE exams are not like the exams you took in college. The goal is not to get an A. The goal is to just pass. Thus, you need to be strategic in choosing which questions you try to answer and which you skip. As rule of thumb, you need to only get 60 out of 80 questions right to pass, so you can avoid 20 questions as long as you do the other 60 well.



**Betsy Mathieson**  
**Professional Geologist**  
**(GEO4025, EG1249)**

I took the PG [Professional Geologist] and CEG [Certified Engineering Geologist] exams in one weekend in 1985 (when doing so was allowed). I had studied

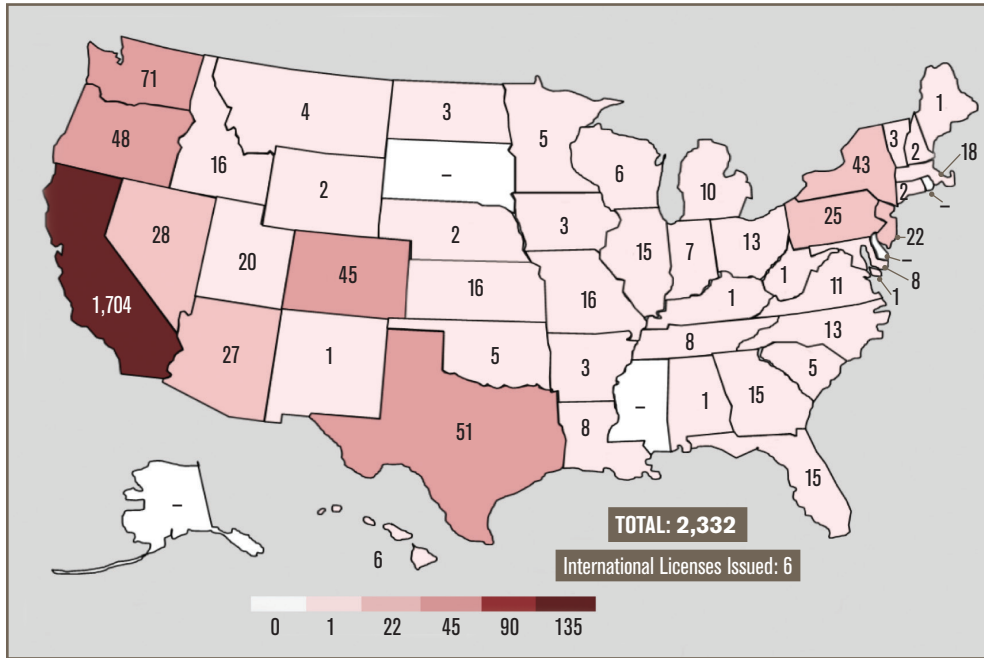
solo and resolved not to try to learn anything new for the exams but to brush up on the topics I had learned in school. So, for example, I skipped trying to learn about the hydrogeology of deep fluid injection wells.

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Digging Deeper (continued from page 7)

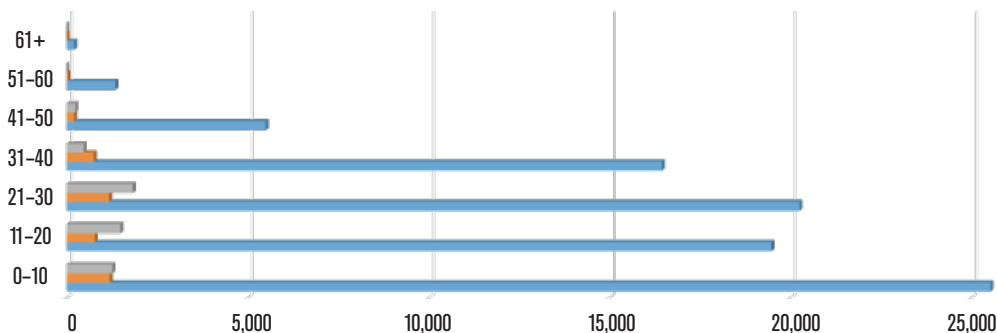
**California Licensees by State**

The data below identifies the total number of licenses issued in 2015, as well as the state locations and number of licensees who applied and received a California license.



**Years of Service Among Active Licensees**

Our experienced licensees offer a wealth of knowledge in all areas of practice and serve as mentors for future licensees. It's encouraging to see our licensee base is strong and growing.



	0-10	11-20	21-30	31-40	41-50	51-60	61+
Geologists and Geophysicists	1,264	1,490	1,834	471	240	0	0
Land Surveyors	1,196	779	1,183	755	211	32	4
Engineers	25,541	19,487	20,258	16,456	5,505	1,350	213

Looking Back (continued from page 8)

I was extremely nervous for the PG exam, and it started badly. My calculator battery died soon after the exam began. Fortunately, the proctor let me sit at his or her table in front of the room, where I could reach an electrical receptacle.

I made every question more complicated than it was and consequently spent more time erasing than writing. I was sure I had failed.

I spent the night in a hotel in San Francisco thinking I was taking the CEG exam the next day just for fun, because it wouldn't be counted if I had failed the PG exam. The CEG exam was fun. It's my specialty, most of the questions were essay questions, and I like to write.

As it turned out, I passed both exams so didn't have to relive that unpleasant experience.

For the past three decades my advice to other examinees has been, "These are easy questions. If one is not easy, you're doing it wrong. Re-read the question!"

## Legislation and Regulation News and Updates

Every legislative session, the Board tracks and analyzes bills that impact the Board's operations, the licensed professions the Board regulates, and the statutes that determine that authority. We consistently strive to identify, analyze, and advertise at public Board meetings the bills introduced that may change the landscape of our statutory authority. For more information on upcoming Board meetings and to download meeting materials, go to [www.bpelsg.ca.gov/about\\_us/meetings/index.shtml](http://www.bpelsg.ca.gov/about_us/meetings/index.shtml).

The following is a summary of tracked legislation and current regulations:

### Legislation

#### Senate Bill 1165 (Cannella)

##### **Sign/Seal and Delinquent Reinstatement**

**Status:** Signed by the Governor. Chaptered by Secretary of State. Chapter 236, Statutes of 2016. Changes effective January 1, 2017.

**Laws:** An act to amend Sections 6796, 6796.3, 6796.5, 7835, 7835.1, 7852, 7852.1, 7884, 8802, 8803, and 8803.1 of the Business and Professions Code, relating to professions.

**Bill summary:** Currently, the laws allow professional geologists and geophysicists to either sign or seal their documents. This bill would require professional geologists and geophysicists to both sign and seal (or stamp) their final work product documents to indicate their responsibility for them and to require professional geologists and geophysicists to obtain a seal (or stamp). This bill would also extend the delinquent reinstatement rights to a licensee from three years to five years after expiration of their license. The bill would generally prohibit the renewal, restoration, reinstatement, or reissuance of these licenses after this time. This bill would also make changes to the laws to clarify that a person applies for a license or certificate, not just to take an exam.



*State Senator Richard Roth, author of Senate Bill 1085, with Board members at a recent Board meeting.*

#### Senate Bill 1085 (Roth)

##### **Laws and Regulations Renewal Examination**

**Status:** Signed by Governor. Chaptered by Secretary of State. Chapter 629, Statutes of 2016. Changes effective January 1, 2017.

**Laws:** Add Sections 6795.2, 7881.5, and 8801.1 to the Business and Professions Code, relating to professions and vocations.

**Bill summary:** Existing law makes the Board responsible for the certification, licensure, and regulation of the practice of professional engineers, the practice of professional geologists and geophysicists, and the practice of professional land surveyors. This bill would additionally require licensees to complete an online assessment on the laws and regulations under the Board's jurisdiction, as specified in the legislation.

### Regulations

The Board submitted a rulemaking proposal to amend Section 425 of Division 5 of Title 16 of the California Code of Regulations (CCR) regarding reasonable educational or experience requirements necessary to qualify for the professional land surveyor license. The Notice was published in

(continued on page 14)



## Enforcement Actions

### Citations Issued to Licensees: Fiscal Year 2015–16 (April–June)

Citations are issued to licensed engineers, land surveyors, geologists, and geophysicists when the severity of a violation may not warrant suspension or revocation of the licensee’s right to practice. When a fine is levied with a citation, payment of the fine does not constitute admission of any violations charged but represents a satisfactory resolution of the matter, pursuant to Business and Professions Code Section 125.9(d). Code sections numbered in the 6700s, 7800s, and 8700s refer to the Business and Professions Code; those numbered in the 400s and 3000s refer to Title 16 of the California Code of Regulations. You can read the laws on the Board’s website, [www.bpelsg.ca.gov/laws/index.shtml](http://www.bpelsg.ca.gov/laws/index.shtml). All final citations are matters of public record. For a copy of the final citation order or if you have any questions, you may contact the Board’s Enforcement Unit at [BPELSG.Enforcement\\_Information@dca.ca.gov](mailto:BPELSG.Enforcement_Information@dca.ca.gov) or (916) 263-2284. Please include the name of the cited person and the citation number in your request.

Cited Person	Citation No.	Violation Code Section(s)	Date Final	Fine Amount	Status of Fine
BURKE, DOUGLAS	10487-L	6775(g); 475(c)(7)	5/11/2016	\$1,000	Paid
DAVIS, DANNY	10477-L	8780(b)	6/15/2016	\$1,500	Paid
DIGGINS, JAMES	10303-L	8780(b); 8762	4/29/2016	\$5,000	Paid
FLATLAND, STEPHEN	10320-L	8780(b)	4/29/2016	\$1,000	
JULES, NICOLE	10485-L	6730.2(c); 8771(d)	4/16/2016	\$5,000	
REICHENBERGER, JOSEPH	10199-L	6749(a); 6775(f),(h); 6738	6/19/2016	\$1,500	
ROEHL, GARY	10482-L	8780(d); 464(c)	6/16/2016	\$500	Paid
ROEHL, GARY	10459-L	8764(d); 8771(a); 8780(b)	6/16/2016	\$1,500	Paid
ROEHL, GARY	10458-L	8762(b)(1)	6/16/2016	\$0	N/A
ROEHL, GARY	10457-L	8759(a)(3); 8762(b)(1),(2)	6/16/2016	\$500	Paid
SZUMSKI, DANIEL	10484-L	6749(a)	4/16/2016	\$500	Paid

### Citations Issued to Unlicensed Individuals: Fiscal Year 2015–16 (April–June)

Citations are an alternative to criminal prosecutions that the Board can use to enforce the laws prohibiting the unlicensed practice of engineering, land surveying, geology, and geophysics, or other activities for which a license is required. When a fine is levied with a citation, payment of the fine does not constitute admission of any violations charged but represents a satisfactory resolution of the matter pursuant to Business and Professions Code Section 125.9(d). Code sections numbered in the 6700s, 7800s, and 8700s refer to the Business and Professions Code; those numbered in the 400s and 3000s refer to Title 16 of the California Code of Regulations. You can look up the code sections and read the laws on the Board’s website, [www.bpelsg.ca.gov/laws/index.shtml](http://www.bpelsg.ca.gov/laws/index.shtml). All final citations are matters of public record. For a copy of the final citation order or if you have any questions, you may contact the Board’s Enforcement Unit at [BPELSG.Enforcement\\_Information@dca.ca.gov](mailto:BPELSG.Enforcement_Information@dca.ca.gov) or (916) 263-2284. Please include the name of the cited person and the citation number in your request.

Cited Person	Citation No.	Violation Code Section(s)	Date Final	Fine Amount	Status of Fine
BUI, NAM VAN	10462-U	6787(a)	4/13/2016	\$750	
CAO, BEN	10479-U	6787(f)	6/15/2016	\$2,500	Paid
ZACHMAN, TYLER	CG 2012-01	7872(a)	5/31/2016	\$500	Paid
ZARAGOZA, RICHARD	10200-U	6787(a),(g),(j); 6738	4/16/2016	\$2,000	

(continued on page 12)

## Formal Administrative Disciplinary Decisions: Fiscal Year 2015–16 (April–June)

A formal disciplinary decision is considered formal administrative disciplinary action against a licensee. It results from the Board’s adoption of a proposed decision prepared by an administrative law judge following a hearing, a stipulated settlement agreement, or a default decision following a full investigation and the filing of an accusation. An accusation is a formal legal document that notifies a licensee of the Board’s charges and allegations of violations against the licensee and that requests a disciplinary order be issued. The licensee is entitled to contest the charges at a formal hearing before an administrative law judge or to agree to a stipulated settlement. A final disciplinary decision contains findings and determinations or statements of advisements, waivers, and culpability and a disciplinary order. If there are findings of violations, the order may include revocation or suspension of the license, a stayed revocation or suspension of the license with a probationary period and terms and conditions or probation, or a public reproof. In the alternative, the decision may find that no violations or violations of a

de minimus nature occurred and order the dismissal of the accusation. All final disciplinary decisions are matters of public record. For a copy of the final decision or if you have any questions, you may contact the Board’s Enforcement Unit at [BPELSG.Enforcement\\_Information@dca.ca.gov](mailto:BPELSG.Enforcement_Information@dca.ca.gov) or (916) 263-2284. Please include the name of the respondent and the case number in your request.

Respondent	Case Number	Effective Date	Disciplinary Order
BADEN, BRIAN	1099-A	4/8/2016	Revocation of license
BARTHOLOW, PAUL	1066-A	4/8/2016	Public reproof
CLARK, THOMAS CULBERTSON III	1100-A	5/20/2016	Voluntary surrender of license
DE LAPP, KEITH	828-A	5/20/2016	Revocation of license
GALLARDO, KENNETH	1110-A	5/20/2016	Revocation of license
HOWELL, HAROLD	1082-A	5/20/2016	Revocation, stayed; probation
UPASANI, MOHAN	1118-A	4/8/2016	Revocation, stayed; probation

## Definitions: Outcomes of Formal Administrative Disciplinary Decisions

**Public Reproof:** The licensee is sent a letter of public reproof advising him or her of the violations. The letter is a matter of public record, and a copy will be provided upon request. There are no restrictions on the right to practice, nor is the licensee on probation. This action constitutes formal administrative disciplinary action against the license (and is not the same as a citation).

**Revocation, Stayed; Probation:** The order of revocation of the license has been stayed (put on hold), and the licensee has been placed on probation for a specified period of time with terms and conditions. If probation is successfully completed, the license will be fully restored. If the probation is violated, the Board can pursue further action to terminate the stay and impose the order of revocation.

**Revoked or Revocation of License:** The license is terminated, and the right to practice is ended.

**Suspended:** The licensee is prohibited from practicing for a specific period of time.

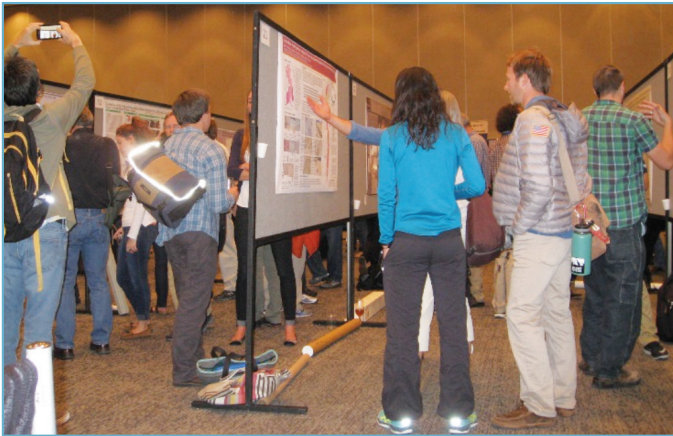
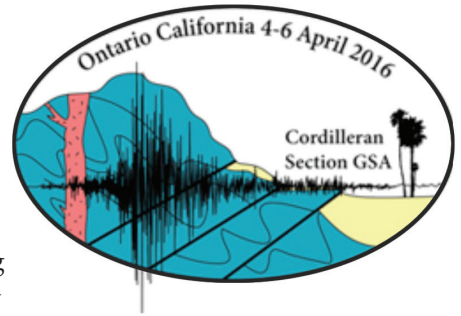
**Voluntary Surrender or Surrender of License:** The license has been voluntarily returned to the Board, and the right to practice has ended. This action constitutes formal administrative disciplinary action against the license.

## OUTREACH EVENTS: April–June 2016

### Geology Outreach

#### Student/University Outreach

**April 4–6:** The Board’s Geology and Geophysics Program teamed with the National Association of State Boards of Geology to staff an information booth at the Geological Society of America Cordilleran Section meeting from April 4–6, in Ontario, California. This event provided an opportunity for Board staff to interact with university geology students one-on-one in a relaxed setting and give them information regarding the Geologist-in-Training (GIT) certificate and professional licensing requirements, as well as the national and state licensing exams. Professional licensing information was also provided to university geology departments in attendance. Approximately 250 students stopped by the booth for information.



*The student poster session at the Geological Society of America Cordilleran Section meeting held in April.*



*Board Senior Registrar Laurie Racca, P.G., at the National Association of State Boards of Geology booth at the Geological Society of America Cordilleran Section meeting.*

**April:** The presentation “Geologist-in-Training (GIT): A Step Toward a Promising Career” was given at three universities (April 20: California State University [CSU], Fullerton, and CSU Long Beach; April 27: CSU Sacramento); and at the Association of Environmental and Engineering Geologists, Sacramento Section Student Night (April 26). The talk focused on educating students and faculty regarding professional licensing requirements and keeping up to date with Board activities. Students were encouraged to obtain their GIT certificate by taking the national Fundamentals of Geology examination as soon as they are qualified.



*Pizza night with California State University, Fullerton, Department of Geological Sciences students on April 20.*

(continued on page 14)



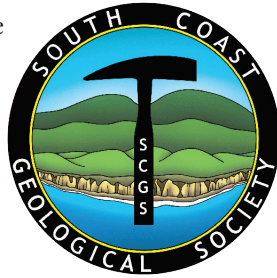
# BULLETIN

## Outreach Events (continued from page 13)

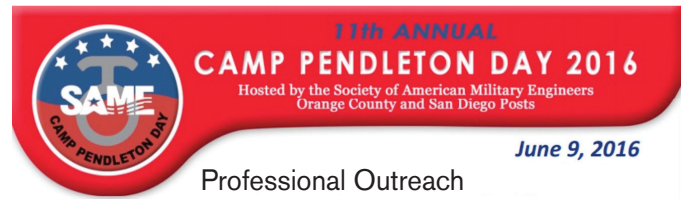
**May 11:** Board member Dr. Mohammad Qureshi and Board Senior Registrar Laurie Racca, P.G., attended a student outreach event at Loma Linda University, Department of Earth and Biological Sciences, and discussed the importance of professional licensing, even if someone has been awarded advanced degrees in their field.

### Professional Outreach

**May 2:** Approximately 65 people attended the South Coast Geological Society meeting to hear Senior Registrar Laurie Racca's, P.G., presentation, "Evolution of Licensing Requirements in California: Defining a Geological Sciences Degree." The presentation included an update of Board activities specific to its Geology and Geophysics Program and a summary of the preliminary activities associated with ongoing process of updating the education requirements for a professional geologist license.



**June 26:** Executive Officer Ric Moore, PLS, and Senior Registrar Laurie Racca, P.G., visited the Sacramento office of the California Department of Water Resources (DWR). DWR requested an update on licensing requirements and recent activities at the Board, including current legislation and rulemaking efforts. Approximately 50 people attended the meeting, which served as a forum for DWR staff to ask specific questions regarding the practice of engineers, land surveyors, and geologists.



### Professional Outreach

**June 9:** Our staff electrical engineer Mike Donelson, P.E., attended the Society of Military Engineers' "Transitioning: Military to Career" event to provide mentoring and networking opportunities to transitioning military and veterans. This one-day event was held at Camp Pendleton, CA. Donelson provided information on the types of skills needed as well as careers available in the engineering field for transitioning military personnel and veterans.

## Legislation and Regulation News and Updates (continued from page 10)

the California Regulatory Notice Register on August 12, 2016 (Register 2016, No. Z-2016-0802-09).

The Board submitted a rulemaking proposal to amend Sections 3036.1, 3036.2, 3037.1, and 3037.2 of Division 29 of Title 16 of the CCR relating to examination appeals for geophysicists, specialty geologists, and geophysicists. The Notice was published in the California Regulatory Notice Register on May 27, 2016 (Register 2016, No. Z-2016-0517-09).

The Board submitted a rulemaking proposal to amend Sections 426.10, 426.14, and 426.50 of Division 5 of Title 16 of the CCR relating to structural and geotechnical engineer qualifying experience. The Notice was published in the California Regulatory Notice Register on May 6, 2016 (Register 2016, No. Z-2016-0426-05).

The Board submitted a rulemaking proposal to amend Sections 472, 472.1, 472.2, 472.3, 472.4, 473, 473.1, 473.2, 473.3, 473.4, 3062, 3062.1, 3062.2, 3062.3, 3062.4, 3063, 3063.1, 3063.3, and 3063.4 of Title 16 of the CCR relating to updating language regarding the Citation Program. The Notice was published in the California Regulatory Notice Register on March 11, 2016 (Register 2016, No. Z-2016-0301-03).

The Board submitted a rulemaking proposal to amend Section 464 of Title 16 of the CCR relating to updating language regarding the Corner Record. In addition, this proposal makes other changes as a result of legislation. The Notice was published in the California Regulatory Notice Register on November 13, 2015 (Register 2015, No. Z-2015-1029-01).

All information pertaining to these rulemaking proposals can be found on the Board's website at [www.bpelsg.ca.gov/about\\_us/rulemaking.shtml](http://www.bpelsg.ca.gov/about_us/rulemaking.shtml).

## In Memoriam

The Board would like to recognize professionals licensed as engineers, land surveyors, or geologists who have recently passed away. Below is list of individuals who have departed between April and June 2016. This list may not include all those who have recently passed away, as we rely on information from the public, other licensees, and family members. Please contact the Board regarding individuals who have recently passed.

Name	License Number	Years of Service
<b>Engineer</b>		
Kiyoshi Adachi	C 28823	38
Merle S. Bashor	M 11790	58
Sterling Monroe Brockwell Jr.	C 26127	40
Michael Thomas Burgess	M 29720	20
John Francis Conrad	I 3172	46
John Batista Damonte	E 9962	37
Titus Henry Drake Jr.	C 31177	36
John Edward Goosney	M 32180	14
Frank Charles Heggli	C 11248	58
Victor Walter Lubinoff	E 7447	46
Glenn E. Robison	C 13813	53
Rameshwar Singh	C 21476	43
Eric John Wogsberg	CH 3033	44
<b>Land Surveyor</b>		
J.C. Dalton	L 2872	61
Dennis Ronald Wiebe	L 4662	38
<b>Multiple Licenses</b>		
Richard Lee Hess	C 14459 / S 1562	53 / 47
Robert Leon Lee	C 23076 / TR 8	43 / 41
Ronald Lee Peterson	C 20326 / TR 910	45 / 39
Fred H. Schott	C 13224 / S 1387	54 / 49
Thomas Gordon Schultz	C 17651 / SF 308 / TR 296	49 / 40 / 40
Daniel Thomas Van Dorpe	C 16609 / FP 943	50 / 39

## Contact Us

**California Board for Professional Engineers, Land Surveyors, and Geologists**  
2535 Capitol Oaks Drive, Suite #300, Sacramento, CA 95833

<b>ADMINISTRATION</b>		
Executive Officer	Ric Moore	(916) 263-2222
Assistant Executive Officer	Nancy Eissler	(916) 263-2222
Administration Supervisor	Jeff Alameida	(916) 263-2222
<b>ENFORCEMENT AND COMPLAINTS</b>		(916) 263-2284
<b>FINGERPRINTING</b>	Jen Mueller	(916) 572-7097
<b>EIT (FE) OR LSIT (FS) CERTIFICATION</b>	Linda Liu	(916) 263-2232
<b>GIT (FG) CERTIFICATION</b>	Dolly Kampfraat	(916) 263-1855
<b>PE, PLS, PG, OR PGP LICENSURE QUALIFICATIONS OR APPLICATIONS</b>		
PE/PLS		(916) 263-2193
PG/PGp		(916) 263-1855
<b>LICENSE RENEWAL</b>	Vicki Kereszt	(916) 263-2268
<b>OUTREACH</b>	Brooke Phayer	(916) 263-2239
<b>SENIOR REGISTRARS (FOR PROFESSIONAL LICENSES)</b>		
Engineers (Civil, Structural, and Geotechnical)	Susan Christ, PE	(916) 263-2247
Engineers (Other Than Civil)	Michael Donelson, PE	(916) 263-2248
Geologists and Geophysicists	Laurie Racca, PG	(916) 263-2406
Land Surveyors		(916) 263-2222
<b>WEBMASTER</b>	Celina Calderone	(916) 263-2230

## The First Land Surveyors

July 20, 1891: This is an important date in history that only a small group of professionally licensed land surveyors are aware of. It was on this date that professional land surveyor licensing began, with the licensing of nine individuals. These individuals were not only the first licensed land surveyors in California, but in the entire United States. It was 16 years before another state (Wyoming) enacted licensing for engineers and land surveyors. Please join the Board in celebrating 125 years of land surveyor licensing!



## National Association News

### NCEES

*The National Council of Examiners for Engineering and Surveying*



## NCEES

*advancing licensure for engineers and surveyors*

*NCEES is a national nonprofit organization dedicated to advancing professional licensure for engineers and surveyors. It develops, administers, and scores the examinations used for engineering and surveying licensure in the United States. To learn more about NCEES, visit <http://ncees.org/about-ncees/>.*

### NCEES reduces FE, FS exam prices beginning 2018

The U.S. engineering and surveying licensure boards that make up NCEES have voted to amend its policy on exam charges to lower the price for the Fundamentals of Engineering (FE) and Fundamentals of Surveying (FS) exams by \$50 to \$175 beginning January 2018. The decision was made at the organization's 95th annual meeting, held August 24–27, 2016, in Indianapolis, Indiana.

For more NCEES news, visit <http://ncees.org/news/>.

### ABET

*ABET is a not-for-profit, nongovernmental accrediting agency for programs in applied science, computing, engineering, and engineering technology.*



*ABET accreditation provides assurance that a college or university program meets the quality standards of the profession for which that program prepares graduates. ABET accredits programs, not institutions. They provide specialized accreditation for post-secondary programs within degree-granting institutions already recognized by national or regional institutional accreditation agencies or national education authorities worldwide.*

*ABET accreditation is voluntary, and to date, more than 3,400 programs at nearly 700 colleges and universities in 28 countries have received ABET accreditation.*

*To find out if a program is ABET-accredited, do an online search at <http://main.abet.org/aps/Accreditedprogramsearch.aspx>.*

To learn about ABET news, visit [www.abet.org/abet-news/](http://www.abet.org/abet-news/).

### ASBOG

*"Public Protection Through Licensure"*



*The National Association of State Boards of Geology (ASBOG) is a not-for-profit, nongovernmental accrediting agency that serves as a connective link among the individual state geologic registration licensing boards for the planning and preparation of uniform procedures and the coordination of geologic protective measures for the general public.*

*One of ASBOG's principal services is to develop standardized written examinations for determining qualifications of applicants seeking licensure as professional geologists.*

*To learn more about ASBOG, visit [www.asbog.org](http://www.asbog.org).*

The Board teamed with the National Association of State Boards of Geology to staff an information booth at the Geological Society of America Cordilleran Section meeting from April 4–6, in Ontario, California.





## School Summer Programs

### SBCC Geology Program Gets Grant

The Santa Barbara City College Geology Field Program was awarded a \$10,000 grant by the Geological Society of America in support of its Geology Field Camp run by Jeff Meyer. The summer camp gives experience mapping in remote places.

### Geology Rocks This Summer in Montana for Future Geologists from CSU Northridge

This summer, 25 geology students from California State University (CSU), Northridge, learned firsthand about their discipline by conducting fieldwork in a remote, geologically rich area of Dillon, Montana, where every kind of rock—ranging in age from hundreds of years to 2.5 billion years—exists.

The trip to the Dillon area was part of a capstone course that offers hands-on geology, similar to how professional geologists would tackle geological mapping and observations in the field, said Vali Memeti, assistant professor of geological sciences, who cotaught the course with Nicole Bonuso, associate professor of geological sciences.

Picture courtesy of Santa Barbara Independent



Picture and information courtesy of CSU Northridge News Center



Geology students and faculty members pose for a group photo at Yellowstone National Park, where they viewed geysers, hot springs, and a fault scarp that was produced by a 7.5 magnitude earthquake in 1959.

## Get to Know Our Licensees

### Meet John G. Parrish, P.G., California State Geologist

#### 1. Why did you become a geologist? What drew you to this field?

*Even as a young boy, I had an interest in the sciences and in engineering—my father was a top engineer in the aerospace industry. When I entered undergraduate university studies, I intended to become an engineer, until I met an inspirational geology professor who made those mandatory undergraduate science (geology) classes exciting. So, I changed my major to geology.*



#### 2. Where did you attend school, and why did you pursue advanced degrees?

*I obtained a Ph.D. in geology (with an emphasis in marine geology) from the University of Wales at Aberystwyth, United Kingdom. Prior to that I received an M.S. degree in geology from the University of Houston, Texas, and an MBA degree in finance through the California State University system. My bachelor of science degree in geology is from the University of Redlands, in southern California.*

*I had always intended to obtain an advanced degree at the Master's level at the urging of my father and professors, because even in those "olden" days, it was seen as a necessary step for advancement in the workplace. The science learned at the undergraduate level needed additional honing at the Master's level, which helped me understand better the directions and focus of my career. I accepted an invitation from a friend and professor at the University of Wales in the U.K. to work on a Ph.D., and found the idea of studying advanced geology in the place where geological studies began to be irresistible.*

#### 3. What value does professional licensure represent to you and how did it help you?

*I had been working as an exploration geologist for a petroleum company for 17 years outside of California and internationally. When I was transferred to California, one of the company assignments was to evaluate several projects involving site reclamation and remediation, which would involve public decision making. The results of this type of work, which would be presented to local and State officials, required licensure as a professional practitioner—thus, I was determined to acquire a license to practice.*

*It was at that time that I realized that when geological (or engineering) work is applied to projects that affect the general public, there must be some minimum level of professional acumen that needed to be applied—some method to protect the public from incompetent and just plain bogus practices. Licensing is one of California's—and many other states'—ways to protect the general public from harm caused by incompetent, naive, or criminal practitioners. Geologists, seismologists, and engineers who work for the CGS [California Geological Survey] are required to become licensed when they are eligible. Licensing helps the CGS to preserve its public integrity.*

#### 4. You transitioned from an extensive private sector career to public service. You've served as the Executive Officer for the former Board of Registration for Geologists and Geophysicists, as the Executive Officer for the State Mining and Geology Board, and now as the California State Geologist. What drew you to public service?

*For about 21 years I was a very active exploration geologist/manager for a national and international petroleum company; however, in the late 1980s and early 1990s the economic bottom fell out from under the petroleum*

(continued on page 19)



**Get to Know Our Licensees (continued from page 18)**

industry. Many companies were undergoing survival mergers and many good people were being laid off or forced into early retirement, etc. I decided then that there really were two other "sides" to the coin—those being academia and public service. Since I am much more of an "applied" scientist and engineering person, rather than a researcher, the choice for public service was not difficult. I have never regretted that decision. My private sector background gives me a great insight into understanding private sector concerns and interests when dealing with government agencies and policies.

**5. What are your responsibilities as the California State Geologist?**

I was appointed to my current position as the California State Geologist and Chief of the CGS in April 2005. The State Geologist provides technical information and advice to the Governor, the state Legislature and agencies, the professional community, and the public on issues pertaining to California's geology, geological hazards, and the state's mineral resources. A large part of this job is to ensure that CGS maintains its partnership with the people of California in fulfilling its mission of providing the highest quality geological and engineering expertise and information for the betterment of the state's economy, environment, and its public's safety.

Of course, the State Geologist's job also is to manage the Geological Survey with its six major programs authorized under five legislative acts. CGS has about 118 employees distributed across the state in five field offices and its headquarters in Sacramento. The CGS has managed over many decades to build both a national and international reputation for the excellence of its programs and products.

**6. What advice would you give to someone just starting their geology career?**

Never stop learning, keep your curiosity spiked, be professional and honest in all your actions, and be flexible to take advantage of opportunities when they appear. You never know where history will take you—so keep your sense of humor, too!

**Board Speakers Available**

The Board continues in its efforts to reach out to groups interested in any of the broad array of Board functions. As part of this outreach effort, we have speakers available to present at meetings and events; speakers include Executive Officer Ric Moore, PLS; Assistant Executive Officer Nancy Eissler; Enforcement Manager Tiffany Criswell; Senior Registrar Susan Christ, P.E.; Senior Registrar Mike Donelson, P.E.; Senior Land Surveyor Registrar Ray Mathe, PLS; and Senior Registrar for Geologists and Geophysicists Laurie Racca, P.G.

Our Enforcement, Licensing, Examination, and Outreach Units all have speakers authorized to represent the Board. To request a speaker, we will need the following information: size of group, location, time, length and type of presentation, and proposed subject matter. Appropriate advance notice is always appreciated.

Current and former Board members may also appear on the Board's behalf, depending on availability.

For more information, contact the Outreach Administrator at the Board, Brooke Phayer at [Brooke.Phayer@dca.ca.gov](mailto:Brooke.Phayer@dca.ca.gov) or (916) 263-2239.







California Board for Professional Engineers,  
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[www.bpelsg.ca.gov](http://www.bpelsg.ca.gov)

## Board Calendar

### OCTOBER

10/4–5: CA Geology and Geophysicists Exams

10/13–14: Board Meeting

10/27: CA Traffic Exam

10/28: NCEES PE/PS/SE Exams

10/31: CA PLS Exam

10/19–11/9: CA Civil Exams

### NOVEMBER

10/19–11/9: CA Civil Exams

11/7: Final Filing Date for New PE/PLS/SE Applications

11/11: Veterans Day—Board Office Closed

11/24: Thanksgiving Day—Board Office Closed

### DECEMBER

12/8–9: Board Meeting

12/16: NCEES Registration Opens for PE/SE Exams

12/25: Christmas Day—Board Office Closed

**Continuous Testing Exams: NCEES PS & FE/FS**

FALL 2016

BOARD FOR PROFESSIONAL ENGINEERS, LAND SURVEYORS, AND GEOLOGISTS



# BULLETIN




## Social Media: Board Facebook and Twitter Pages

The Board is asking for your help in getting the word out regarding the launch of its Facebook and Twitter pages. The Board is now posting information of interest to postsecondary institutions and students on a regular basis. This information includes regulatory changes, updates to our website, interesting articles, useful resources, and a host of other Board-related data.

For those institutions that communicate with students through e-mail or some other means, we invite you to share this information with them. The Board is anxious to use these social media outlets as an ongoing way to reach our stakeholders. Thank you for your assistance in spreading the word.

Please take a few minutes to “like” us on Facebook and follow us on Twitter:

 **Facebook** - [www.facebook.com/The-Board-for-Professional-Engineers-Land-Surveyors-and-Geologists/107020752801578](http://www.facebook.com/The-Board-for-Professional-Engineers-Land-Surveyors-and-Geologists/107020752801578)

 **Twitter** - [twitter.com/CA\\_Engineers](http://twitter.com/CA_Engineers)

STATE OF CALIFORNIA  
  
DEPARTMENT OF CONSUMER AFFAIRS

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