

SPRING 2016

BOARD FOR PROFESSIONAL ENGINEERS, LAND SURVEYORS, AND GEOLOGISTS



BULLETIN

FEATURES

- 1 Get it Done Early: Fingerprinting Application Requirement
- 2 Fingerprinting Frequently Asked Questions
- 11 Future City 2016

IN EVERY ISSUE

- 3 Board News
- 5 Board Subscribers List Reminder
- 6 Legislation and Regulation News and Updates
- 7 Enforcement Actions
- 8 Definitions: Outcomes of Formal Administrative Disciplinary Decisions
- 9 Outreach Events
- 10 Get to Know Our Licensees
- 12 In Memoriam
- 12 Contact Information
- 13 Board Speakers Available
- 14 Board Calendar
- 14 Social Media



Our Spring 2016 *Bulletin*

We hope you enjoy the new issue of the *Bulletin*. In this edition, we are republishing an article from the Spring 2015 *Bulletin* (www.bpelsg.ca.gov/pubs/bulletin42.pdf) regarding fingerprinting for applicants, but we have added some updates (see article below). Over the last year this new requirement has become a hot topic for our applicants and an adjustment for the Board for Professional Engineers, Land Surveyors, and Geologists (Board). We hope we are meeting your expectations when answering your questions and that the transition through this requirement is seamless.

Take a look inside! If you have any ideas for future newsletter topics, please let us know.

Get it Done Early: Fingerprinting Application Requirement

All applicants for licensure are required to submit fingerprints for the purpose of conducting criminal history checks as a condition of certification or licensure. *Since you're required to submit confirmation of fingerprint submittal with your application, be sure to get your fingerprinting completed early.*

This confirmation can be either the Live Scan document you receive at the Live Scan location or two fingerprint cards with your rolled fingerprints from a law enforcement agency. Failure to include this information with your application will result in your application being deemed incomplete. If you have been fingerprinted by another agency or entity, you will need to undergo the fingerprinting and criminal history check process again specifically for the Board.

Applicants who reside in California must complete the electronic Live Scan fingerprint process. Applicants residing outside of California may also choose the Live Scan option if visiting the State, otherwise hardcopy fingerprint cards will need to be submitted. However, be aware that the fingerprint process through the hardcopy fingerprint cards can take three to four months to complete.

Once you have been fingerprinted for the Board and you have completed the background check process, you do not need to submit fingerprints again with subsequent applications. Fingerprints will be sent to the California Department of Justice (DOJ) and the FBI to search for any criminal history.

(continued on page 2)

BULLETIN

Get it Done Early: Fingerprinting Application Requirement (continued from page 1)

The applicant must pay all costs associated with submitting fingerprints. For applicants who are fingerprinted in California through the Live Scan process, the cost will be \$49 in processing fees (\$32 for DOJ and \$17 for FBI) in addition to the “rolling” fee; rolling fees vary as each Live Scan location sets their own fees. For applicants completing hardcopy fingerprint cards, the \$49 processing fees will be paid directly to the Board by check or money order (payable to “DCA” [Department of Consumer Affairs]) to be submitted with the hardcopy fingerprint cards; the rolling fee will be paid by the applicant to the law enforcement agency providing the fingerprint rolling service.

The Board will receive information regarding actions that have been dismissed or expunged along with all other convictions. The Board’s application forms require disclosure of all prior or pending convictions, except for

those specifically noted on the application forms; if in doubt as to whether a conviction should be disclosed, it is always best to disclose it. Be aware that the Board will be notified of all future criminal actions through subsequent reports from the DOJ and/or FBI. If your application is denied due to the criminal history check, you have the right to appeal the denial.

To help ensure your license application process goes efficiently and smoothly, get your fingerprints done early.

For more information, visit the Board web page “Fingerprinting FAQs” at www.bpelsg.ca.gov/applicants/fingerprinting_faqs.shtml.

If you have any questions, contact our fingerprint coordinator, Jennifer Mueller, at (916) 572-7097 or BPELSG.fingerprint.questions@dca.ca.gov.

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Fingerprinting Frequently Asked Questions

What is Live Scan?

Fingerprinting system for California.

How do I complete Live Scan fingerprinting?

If you reside or are currently in California, see Live Scan instructions and form at www.bpelsg.ca.gov/pubs/forms/live_scan_form.pdf.

If you reside or are currently located outside of California, request fingerprint cards at www.dca.ca.gov/webapps/bpelsg/fprequests.php.

Where can I get my Live Scan fingerprinting done?

Locations by county listed on Office of the Attorney General’s website: <https://oag.ca.gov/fingerprints/locations>.

Who do I contact if I have questions about criminal history, disclosure, and required court documentation to complete my application?

Call your application evaluator; listings on Board website: www.bpelsg.ca.gov/about_us/contact.shtml.

Do I need to submit fingerprints every time I apply?

No. Once you submit fingerprints to Board and they have been verified as valid, you do not need to submit fingerprints again with subsequent applications.



Board News

Achieving Your Dream: Professional Licensure Part 1

Bob Stockton, current President of the Board and Vice President and Principal-in-Charge of Rick Engineering Company's Riverside office, is a devoted advocate for engineers acquiring their Professional Engineer (PE) license. As a licensed professional civil engineer in California and Arizona, with more than 36 years of experience in the industry, Bob is proof of why a PE license is vital for an engineering career. Wrapped up in Bob's personal story of preparing for the PE exam is the start of a pursuit that illustrates a credible case for the importance of engineers obtaining a PE license.

Bob's pursuit: *triathlons*.

The year Bob began the lengthy process of studying for the PE exam was also the year he started training for his first triathlon—an experience that would eventually turn into a 25-year personal hobby. Bob's simultaneous pursuits highlight important elements for success for engineers aspiring to professional licensure: mentorship, community, strategy, and the importance of enjoying the journey. Additionally, Bob's story of working toward licensure in the 1980s reveals a stark contrast between the limited preparatory resources available for engineers then as compared to the abundance of helpful resources available today. Bob's story not only offers engineers-in-training helpful guidance, but also shows that resources for preparing for the PE exam have grown dramatically.

BEGINNINGS

Bob received his bachelor's degree in Construction Engineering from California State Polytechnic University, Pomona, in 1978 and started his engineering career doing structural engineering and land development work at Sowards and Brown Engineering Company, a small firm located in Solana Beach, California. Bob was mentored by the company owner, a professionally licensed structural engineer with a master's degree in Structural Engineering from MIT, who instilled in Bob the importance of having a PE license.

"My mentor was in responsible charge so he could sign all the plans," Bob said. "I really liked the fact that by signing the plans, he was accepting full responsibility of the designs and effort that were put into the plans."

Bob began studying for the PE exam near the end of 1980, and in 1981 moved to Carlsbad to begin his career with Rick Engineering Company.

When Bob started working for Rick Engineering Company, one of his consistent outlets for staying in shape was habitually running on the nearby beach during his lunch break. Bob's coworkers took notice and decided they wanted to get in shape as well. Given their proximity to San Diego, the birthplace of the modern triathlon movement, they figured they would attempt the Carlsbad triathlon together. Their team's collective ambition proved to be an excellent example of the value of community. However, Bob admits, "We didn't know what we were getting into."

From an outsider's perspective, deciding to commit to training for a triathlon at the outset of working for a new firm while also beginning studying for the PE exam sounds incompatible. However, Bob's willingness to invest time and energy into a triathlon while studying is an example of a personal value he promotes for engineers: balance. Bob believes that it's crucial for engineers to engage in activities outside of their work efforts: "... it allows you to deal more effectively with stress, and it helps free your mind in such a way that you can be more creative when you're immersed in your work or other endeavors."

A CORRELATION

Bob's 35-year experience of practicing engineering with a professional license and his 25-year experience as a triathlete have given him insights into the journeys to obtaining licensure and preparing for a triathlon. The typical components of the journey to licensure are four years of education, two years of professional experience, and passing a state-regulated exam. Bob's analogy is a correlation between the three different legs of the triathlon versus the three different segments that make up the journey to licensure:

Swim/Education: "A good swim sets you up for the rest of the race. You'll never win a triathlon because of the swim, but you can lose a triathlon because of the swim." Since the swim is the first leg of the race for a triathlon, education is the first step in the journey to licensure. The education process for engineers is critical, and though there is further work to be done to obtain a PE after

(continued on page 4)

Board News (continued from page 3)

collegiate or graduate work, the performance in the classroom sets you up for the workplace.

Biking/Professional Experience: “The bike portion of any triathlon is always the meat of the race. It’s the longest portion. The bike is the connection between the swim, and the run, just like experience is the connection between education and the exam.” This leg of the journey is the longest and is crucial in preparing engineers for the exam and licensure. Engineers are required to complete a minimum of two years’ work experience under a professional engineer before the PE exam. To effectively utilize their education, engineers must be invested in their work experience since it directly affects preparation for the test.

Running/Exam: “Running is the finish. That’s your drive to the finish; that’s your drive to licensure.” To reach this stage of the race, competitors must complete a grueling swim and an extensive bike ride. To make it to the exam, engineers must complete four years of education and put in a minimum of two years of professional experience. All the hard work invested on the front-end culminates with a standard exam as the one final challenge to professional licensure.

STUDYING AND TRAINING

In the 1980s, accessibility to information about the PE exam was considerably limited compared to the information available to engineers today. “All communication about the exam was written. There was no Internet in ’81,” Bob said. Study material at the time was also in short supply. “The process to find study material was time-consuming. There were books of sample exam questions, but no study guides.” Bob relied on one choice book for most of his studying: a 1976 edition of the *Standard Handbook for Civil Engineers* by Frederick S. Merritt. “That was my go-to.” Bob also used *Structural Engineering for Professional Engineers’ Examinations: Including Civil Engineer Review* by Max Kurtz (1961) and a copy of *Handbook of Hydraulics* by Brater and King (1976). For Bob, his motivation in working through the lengthy and challenging studying process for the PE is simple: “It’s critical for your career.” Similarly, training information regarding triathlon preparation was also significantly lacking in comparison to the material available today. “Today, just like engineering and the

ability to study for the PE, there’s a ton of training plans, blogs, information, coaching tips, and other material available on the Internet and social media. It’s incredible. They didn’t have training plans back in ’81.”

For every engineer, a crucial component of studying for the PE exam is figuring out how to manage their study efforts. One’s stage of life and concurrent responsibilities for each engineer will differ, but it is a factor that cannot be sidestepped and must be creatively addressed to be successful. Bob’s life while working toward his PE consisted of working full-time as a professional engineering consultant, taking care of a new family, and making time to train for a triathlon. “Because I had a young family, a lot of my studying was late at night or early in the morning. Just like my training, it was about fitting it all in. It was difficult. I did a lot of studying on weekends. I’d go out for a long run or a long bike ride on a weekend, and I’d come back and the kids would be down for a nap and I’d just start studying.”

What helped Bob in preparing for the PE exam and what he still considers to be helpful for engineers on their way to taking the exam is maintaining a mentality of commitment. “You’ve got to have full commitment. I took the exam the last year where you would be certified for engineering and surveying. If I failed, I wouldn’t have been able to practice in both disciplines.” There may be varying motivations for engineers receiving their PE: a promotion, career growth, personal achievement, etc. Regardless of the motivation, the exam is a difficult task and requires a significant amount of time for studying. Failing to pass the exam will undoubtedly put on hold any advancement an engineer may be hopeful of. The best approach to a task like the PE is to be all in.

In terms of Bob’s triathlon, what helped him stay motivated was his innate competitive spirit and the “peer pressure” of his coworkers. “There were three of us in the office. There was a lot of smack talking.” The camaraderie amongst Bob and his coworkers in pursuing a difficult challenge together illustrates the benefits of working toward a difficult challenge with others. On the PE front, Bob studied on his own; however, Bob admitted that if he had a study partner, he would have benefited. “It’s much better for training to have a training partner because it motivates you. It gets you up those mornings when you

(continued on page 5)

Board News (continued from page 4)

don't want to roll out of bed, but you know you have to go meet so and so. Same thing for studying. If you have a study partner, you're going to be more motivated to go to the library and meet them and sit down and go over stuff."

Ultimately, Bob states that the reason all the time and effort studying was worth it was because, "the studying process post-education and during your work experience reinforces the knowledge you got in school and the knowledge you're getting while working. At no point in your career will you absorb that much information."

STUDY TIP: RELAX

The weekend before his exam, Bob headed out to the beach with his study materials and studied all day. The setting of the beach gave him a sense of peace and relaxation. "By being relaxed I could intake more and was more receptive." Acknowledging the pressure to perform well, times of relaxation can be instrumental for the engineer working hard to prepare for the PE exam. Bob says that when you're studying for the exam, "have fun with it! Look back favorably on the experience."

Stay tuned for Part II in our upcoming issue.

Preserving National Legacy of Leadership and Service

Jerry Silva, appointed to the Board in February 13, 2008, and re-appointed on January 2, 2011, and February 12, 2015, recently had an article published in the *Riverside*

Press Enterprise and the *Inland Valley Daily Bulletin* regarding the White House Fellows program. In speaking with Jerry, he had this to say: "My goal was to inform more individuals and organizations about this prestigious program. The entire time I served on the Los Angeles regional panel, I didn't see many engineers, land surveyors, or geologists make the finals for interviews. I hope this article encourages some of the younger professionals to consider this program in the future and feel they can contact me anytime on the application process as my way to educate and encourage future leaders in their field as part of their career experience. The White House Fellows program is truly one prestigious program that I had the honor to see firsthand how your life can change from the experience, whether you are selected as a finalist or not." Below is an excerpt from the article:

"Known as the President's Commission on White House Fellowships, the program boasts nearly 700 outstanding alumni who have gone on to become leaders in all fields of endeavor. These Americans have fulfilled the fellowship's mission to encourage active citizenship and service to the nation. The White House Fellows Program has fostered leaders such as Secretary of State Colin Powell, Secretary of Labor Elaine Chao, United Nations Foundation president and former Sen. Timothy Wirth, American Red Cross President Marsha J. Evans and General Wesley Clark."

The full article can be found at www.pe.com/articles/president-793504-program-government.html.

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.
2. Click on "Join Our Email 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.

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

Legislation

Senate Bill 1085 (Roth)

Laws and Regulations Renewal Examination

Introduced: February 17, 2016

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 an applicant for renewal of their license to complete a specified Board-administered examination on the laws and regulations under the Board's jurisdiction.

Senate Bill 1165 (Cannella)

Sign/Seal and Delinquent Reinstatement

Introduced: February 18, 2016

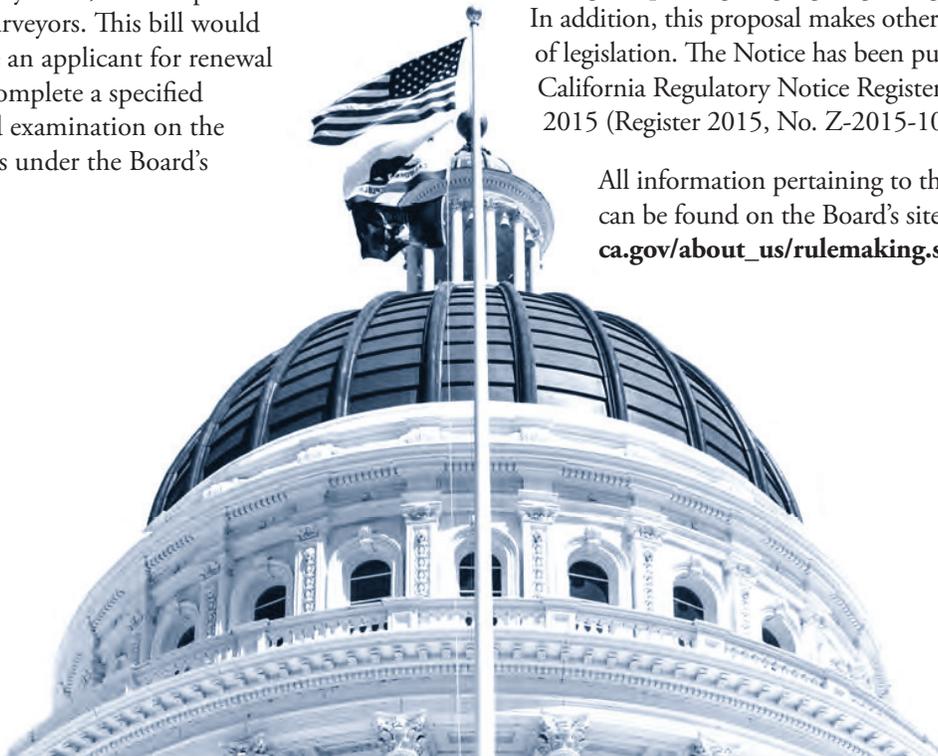
Laws: An act to amend sections 6796, 6796.3, 6796.5, 7835, 7835.1, 7852, 7852.1, 7884, 8802, 8803, and 8803.1 of the Business and Professions Code, relating to professions.

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.

Regulations

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

All information pertaining to the Rulemaking File can be found on the Board's site, www.bpelsg.ca.gov/about_us/rulemaking.shtml.



Enforcement Actions

Citations Issued to Unlicensed Individuals: Fiscal Year 2015–16 (October–December)

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. 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 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
CANELIS, STEVE	10452-U	6787(a); 8792(a)	11/15/2015	\$500	Paid
GOLABI, HORYEH	10423-U	6787(a),(g); 7872(a),(g); 8792(a),(i)	11/6/2015	\$0	N/A
ZIAD, AKBAR	10422-U	6787(a),(g); 7872(a),(g); 8792(a),(i)	11/6/2015	\$0	N/A

Citations Issued to Licensees: Fiscal Year 2015–16 (October–December)

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. 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 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
ABIANI, ALI	10461-L	8792(a)	12/17/2015	\$1,000	Paid
AMOROSO, GREGORY	10428-L	8761; 8762(b)(4); 8780(b)	10/14/2015	\$1,000	Paid
BONADIMAN, EDWARD	10464-L	8759(a); 8759(a)(3); 8780(d)	12/19/2015	\$2,000	Paid
GRENIER, ANDREW	10455-L	8759(a); 8780(b),(d),(f); 404.2	11/29/2015	\$2,500	Paid
HUTTON, ROBERT	10454-L	8773.2(b); 8780(d); 464(c)	11/20/2015	\$5,000	
KING, ALBERT DAN	10436-L	8759(a); 8765(d); 8772; 8780(b),(d),(h); 464(c); 476(c)(7),(11)	10/24/2015	\$3,000	Paid
PUERTOLLANO, ROMULO	10453-L	6749(a)(5)	11/15/2015	\$250	Paid
QUENTIN, PETER	10431-L	8759(a)(4),(5); 8780(d); 8761(d)	11/4/2015	\$1,500	Paid
SLATTEN, MARK HOWARD	CG 2014-09	7839.2(a)(4),(5); 7860(b)(4)	10/14/2015	\$2,500	Paid
WEED, RJ	CG 2012-19	7872(a),(f)	11/30/2015	\$2,000	Paid
YAP, ERIC	10447-L	6775(c)	12/14/2015	\$2,500	

(continued on page 8)

Enforcement Actions (continued from page 7)

Formal Administrative Disciplinary Decisions: Fiscal Year 2015–16 (October–December)

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 BPESLG.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 No.	Effective Date	Disciplinary Order
BERG, THOMAS CHARLES	1121-A	12/11/2015	Revocation of license
CHAN, LAM	1055-A	12/11/2015	Revocation of license
EWING, LARS	1101-A	12/11/2015	Revocation, stayed; probation
GOALWIN, PHILIP	CG 2006-27	10/16/2015	Revocation, stayed; probation
GRIMES, DAVID FRANKLIN	1023-A	12/11/2015	Voluntary surrender of license
LAI, SAI-WING	1095-A	12/11/2015	Revocation, stayed; probation
MARTINEZ, ROBERTO GERRARDO	1049-A	12/11/2015	Revocation, stayed; probation
MC PHEE, JAMES	1041-A	10/16/2015	Voluntary surrender of license
MOODY, RALPH	1029-A	12/11/2015	Revocation, stayed; probation
PETERS, DONALD SCOTT	1106-A	10/16/2015	Revocation of license
SANCHEZ, MICHAEL	1016-A	10/16/2015	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: October–December 2015

October 20 — University of the Pacific, Department of Geological and Environmental Sciences, 20–30 participants
Staff Geology Senior Registrar Laurie Racca, P.G., presented her slide presentation: *The Geologist-In-Training (GIT) Program: Taking Steps Toward a Promising Career*. The talk included the purpose of the Board, a discussion of the laws and regulations that govern the practice of Geology, and why becoming licensed is important to their future career success.

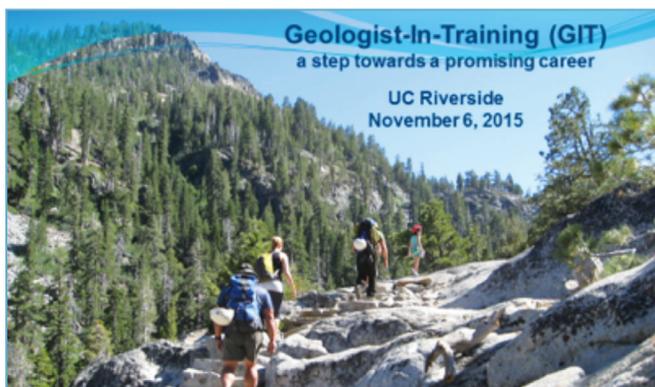
November 4 — California State University (CSU), San Bernardino, Department of Geological Sciences, 12–15 participants

Staff Geology Senior Registrar Laurie Racca, P.G., presented her slide presentation: *The Geologist-In-Training (GIT) Program: Taking Steps Toward a Promising Career*. The talk included the purpose of the Board, a discussion of the laws and regulations that govern the practice of Geology, and why becoming licensed is important to their future career success.

November 5 — Inland Geological Society, 15–20 participants

Staff Geology Senior Registrar Laurie Racca, P.G., presented her slide presentation: *Understanding Licensure in California: Historical Perspective, Today's Purpose, Planning for Tomorrow*. The focus was on the history of geology licensing, a review of key issues in the laws and regulations, the importance of mentoring young professionals so that they can become licensed, and the Board's intent to clarify the education requirements to qualify for a PG license.

November 6 — University of California, Riverside, Department of Earth Sciences, 30–35 participants



Staff Geology Senior Registrar Laurie Racca, P.G., presented her slide presentation: *The Geologist-In-Training (GIT) Program: Taking Steps Toward a Promising Career*. The talk included the purpose of the Board, a discussion of the laws and regulations that govern the practice of Geology, and why becoming licensed is important to their future career success.

November 10 — Cal Poly San Luis Obispo (SLO), 100–110 participants

Senior Engineering Registrars Susan Christ and Mike Donelson spoke to a senior design class at Cal Poly SLO. The presentation was videocaptured for students abroad. Topics covered included the purpose, composition, and history of the Board; the laws and rules, including a discussion of title versus practice acts and the two title authorities structural and geotechnical; licensing and exams; and application preparation and submittal. The room had Internet and projection capabilities so both a PowerPoint and the Board website were used in the talk. Students asked many questions and were given a brief assignment to reinforce the speech.

December 10 — CSU, Fresno, Department of Earth and Environmental Sciences, 15–20 participants

Staff Geology Senior Registrar Laurie Racca, P.G., presented her slide presentation: *The Geologist-In-Training (GIT) Program: Taking Steps Toward a Promising Career*. The talk included the purpose of the Board, a discussion of the laws and regulations that govern the practice of Geology, and why becoming licensed is important to their future career success.

December 10 — Fresno Association of Engineering Geologists, 15–20 participants

Staff Geology Senior Registrar Laurie Racca, P.G., presented her slide presentation: *Understanding Licensure in California: Historical Perspective, Today's Purpose, Planning for Tomorrow*. The focus was on the history of geology licensing, a review of key issues in the laws and regulations, the importance of mentoring young professionals so that they can become licensed, and the Board's intent to clarify the education requirements to qualify for a PG license.

Get to Know Our Licensees

We are happy to introduce you to the Schlotterbeck family: grandfather Don, son Matthew, and grandson Brian—three generations of California professional engineers in one family. Don has achieved “retired” status, while Matt and Brian continue to work in their respective fields. We hope you enjoy learning about your fellow licensees.

1. From which school did you receive your engineering degree?

Don: Ohio State University, December 1949

Matt: California Polytechnic State University, June 1978

Brian: Bachelor of Science, Mechanical Engineering, University of California, Berkeley, May 2009

2. When did you receive your Engineer-in-Training Certification?

Don: June 1953

Matt: June 1978

Brian: January 2010

3. Did you do any post-graduate study? If yes, where?

Don: University of Michigan, Master of Science, Industrial Engineering, June 1962

Matt: I didn't get a post-graduate degree, though I continued to take classes at various institutions to advance my job opportunities.

Brian: Master of Science, Mechanical Engineering, Georgia Institute of Technology, December 2011

4. What prompted you to get your Professional Engineer (PE) license? In what discipline?

Don: It is necessary if consulting in your discipline. PE is a well-respected license as an Industrial Engineer.

Matt: My father urged me to get my registration and, fortunately, I listened to him. I have my PE in Mechanical Engineering.

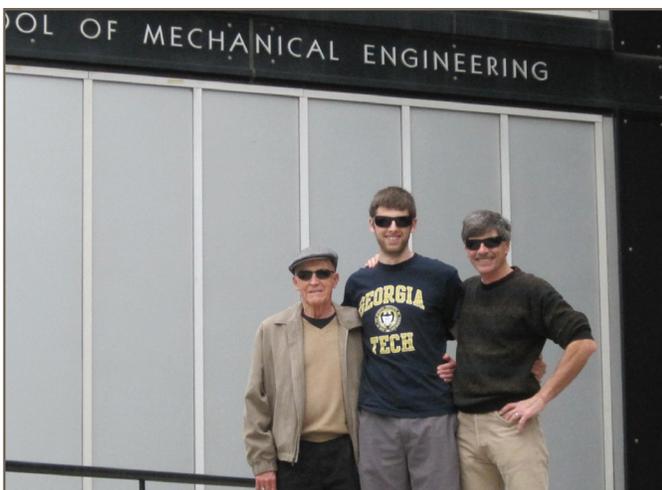
Brian: I received my Mechanical PE license in December of 2012. There were a few reasons I decided to get my PE, and none of them were because it was required in my line of work; it was all personal to me. I thought it would be pretty cool to follow in my grandpa's and dad's footsteps to become a third-generation professional engineer and looked forward to the challenge of continuing that family tradition. I also liked the idea of being called a “PE” and the recognition that comes with it.

5. Do you feel your professional license has helped you in any way (e.g., salary, job options, respect in your chosen field, etc.)?

Don: My license helped with job opportunities, especially in government defense. It affords respect in your field and indirectly affects your salary.

Matt: I know that my license got me interviews with at least three of my future employers. I also know it has helped me earn the respect of my staff at one employer (i.e., “talk the talk, walk the walk”).

Brian: I think it has helped. Though not necessary in my field, it's a credential that helps differentiate me from other people. When job hunting, it definitely doesn't hurt my chances of getting hired. I think it may provide a bit of respect when initially dealing with colleagues or costumers, but that wears off quickly if you can't back it up. More importantly, it opened my eyes to the importance of being a responsible engineer. Once you have the PE initials after your name, you have a certain amount of clout and the power to put designs into practice.



Left to right: Grandfather Don Schlotterbeck, grandson Brian Schlotterbeck, and son Matthew Schlotterbeck.

(continued on page 13)

Future City 2016

By JOHN WILUSZ, P.E., PLS

The 2016 Future City Competition was held January 16 on the campus of the California State University (CSU) Maritime Academy in Vallejo, California. Future City is a science, technology, engineering, and math (STEM) program in which teams of sixth, seventh, and eighth graders design and build models of cities of the future. The competition is funded by corporate sponsors, one of which is the National Council of Examiners for Engineers and Surveyors (NCEES). The theme of this year's competition was "waste not, want not." Twenty-two teams from Northern California and Nevada converged on the CSU campus to compete for first place in the regional competition. Teams from Southern California met in Encinitas on January 23. Regional winners won an all-expense paid trip to the National Finals in Washington, D.C. The top prize this year is \$7,500 for the winning school's STEM program and a trip to U.S. Space Camp in Huntsville, AL, for the team members. Bentley Systems, Inc., paid for the prize.

NCEES sponsored the special award "Best Land Surveying Practices." My job at the regional competition was to judge each team and find the design that employed the best land surveying practices, taking into consideration the high standards that surveyors use to protect the safety and welfare of the public. I interviewed each team and began with this question: Do you know what a land surveyor does? Mostly, the answer was "no," but several students had a general idea. Many students guessed creatively. Here is my favorite response: "Yes! That's a person that goes door to door and asks people questions." Not quite. So, I took the opportunity to explain what land surveyors do and how we fit into the mix of technical professionals—planners, architects, engineers, and scientists—that would be useful in the design, construction, and maintenance of their cities of the future.

Even though they didn't know much about surveying, all the students I spoke with had a basic understanding of geospatial technology. The models were built to scale, and each team used maps (paper, digital, or both) during the design phase. They also used Google Earth, to varying degrees, in the planning, and all the students I spoke with could name the geographic coordinates, latitude, and longitude. Most of them understood the concept of the Z coordinate, elevation, and had a grasp of its importance.



Student participants at the Future Cities Competition.



Teams were not allowed to spend more than \$100 for their model or any props used during their presentation. The event focused on learning, not flash.

The winner of the NCEES award was the future city San Chocolate. Their motto: "Come for the chocolate, stay for the lifestyle." Amen to that. Can you guess the number one attraction in town? It's a tour of the chocolate factory, of course. After that, visitors are encouraged to enjoy the Chocolate Amusement Park. I like chocolate as much as the next judge, but what impressed me more was the team's effective use of geospatial technology. Here are some highlights: The model consisted of two levels, above and below ground, and the students told me they made

(continued on page 13)

In Memoriam

In celebration of the lives and contributions of the following professionals, the Board would like to recognize professionals licensed as engineers, land surveyors, or geologists who recently passed away. Below is list of individuals who have departed between October and December 2015. 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
Engineers		
Kevin Bruce Albaugh	CH 6361	6
James Lee Dale	CH 2718	52
Stephan John Debranch	C 39496	30
Ralph Harrington Finch	C 40677	29
Greg William Giannonatti	C 59478	16
Robert Bradley Hudiburg	C 44775	26
Jack Sunk Lim	E 16101	16
Harry Alan Morewitz	NU 1989	38
John Randolph Roper	MT 1967	4
Geologists		
James William Pynchon	GEO 4212	28
Land Surveyors		
Edgar Charles Hanlin	L 3341	49
Hubert Ray Schultz	L 4241	40
Multiple Licenses		
Richard Kenton Francais	E 10811	34
	CH 3902	33
Michael Kelley	C 45866	25
	E 12258	29
	M 17464	39
Richard Duwaine Potter	C 46799	24
	TR 1645	23
Albert G. Presky	C 10295	59
	S 1001	56

Contact Us

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LICENSE RENEWAL	Vicki Kerezst	(916) 263-2268
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Engineers (Other Than Civil)	Michael Donelson, PE	(916) 263-2248
Geologists and Geophysicists	Laurie Racca, PG	(916) 263-2406
Land Surveyors		(916) 263-2222
WEBMASTER	Celina Calderone	(916) 263-2230



Get to Know Our Licensees (continued from page 10)

6. Would you encourage your friends and coworkers to get their professional license? Why?

Don: Encouragement, yes, I have always encouraged young engineers to get their Professional Engineer license. Testament to that belief are my son, Matthew, and grandson, Brian. I am also proud to say that I was a small part of a group of Industrial Engineers who back in the '60s, lobbied, argued, talked (whatever was necessary) to the State Board of Professional Engineers to get Industrial Engineers registered. I am also glad to see that the Board, through many decades, has finally recognized that there are many great engineers who don't fall into the old category of civil, mechanical, and electrical.

Matt: I actively encourage my staff and others to pursue getting their registration as I feel it shows a commitment to

the craft. I think being registered is a way to demonstrate the professionalism of our discipline.

Brian: Absolutely! I think it's a great way to improve yourself professionally. Aside from the obvious career-oriented benefits, it's a challenge and every engineer loves a challenge. When I received the notice that I passed the exam and was issued a PE license, I felt a sense of pride and confidence (and a little relief); I'd do it for that feeling alone. Additionally, having a PE license is a way to understand the responsibilities of being an engineer. As engineers, we design and build stuff that affects people's lives; it's important to understand this responsibility and practice in a safe, thoughtful manner. Plus, it's fun to tell people you're a professional engineer (or it's fun to believe anyone who's not an engineer actually cares).

Board Speakers Available

Are you planning an event and are looking for qualified and interesting speakers? Contact the Board for Professional Engineers, Land Surveyors, and Geologists. As part of our outreach effort, the Board has speakers available to present at meetings and events; speakers include:

- Executive Officer Ric Moore, PLS
- Senior Registrar Susan Christ, P.E.
- Senior Registrar Laurie Racca, P.G.
- Assistant Executive Officer Nancy Eissler
- Senior Registrar Mike Donelson, P.E.
- Enforcement Manager Tiffany Criswell

Our Enforcement, Licensing, Examination, and Outreach departments all have speakers authorized to represent the Board. Current and former Board members may also appear on the Board's behalf, depending on availability.

To request a speaker, we need to know:

- Size of audience
- Date and location of event
- Time, length, and type of presentation and proposed subject matter

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

Future City 2016 (continued from page 11)

maps using tracing paper to be sure facilities lined up properly between the two levels. Smart! I was also impressed by their clear understanding of the value of coordinates, both for design and stakeout. They communicated a solid understanding of topography and maps, and they did a great job describing how they used Google Earth during the research and design of their city. As winners of the NCEES award "Best Land Surveying Practices," each team member received a trophy, and their school received a check for \$100.

Future City is an opportunity for surveyors to reach out to bright, motivated, science-loving young people. Next year, I will remember to bring promotional literature about our profession to pass along. Participate if you can—you won't be sorry. If you're like me, the experience will leave you feeling like our future cities are in good hands.

John Wilusz works for the California Department of Water Resources in Sacramento.



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Board Calendar

APRIL

4/6–27: CA Civil Exams
4/15: NCEES PE, PS Exams
4/15–16: NCEES Structural Exam
4/18: CA PLS Exam
4/21–22: Board Meeting
FE/FS (EIT/LSIT) Exams:
Continuous Testing

MAY

5/2: New Applicant Final Filing Date
(Fall 2016 Exams)
5/19–21: NCEES Western Zone Meeting
5/22–23: NCEES Board of Directors
Meeting
5/30: Memorial Day
FE/FS (EIT/LSIT) Exams:
Continuous Testing

JUNE

6/9–10: Board Meeting
FE/FS (EIT/LSIT) Exams:
Continuous Testing

SPRING 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:

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 **Twitter** - twitter.com/CA_Engineers

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