

SPRING 2017

BOARD FOR PROFESSIONAL ENGINEERS, LAND SURVEYORS, AND GEOLOGISTS

BULLETIN

FEATURES

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Message From the Executive Officer

RICHARD B. MOORE, PLS

January 2017 marked 10 years since I began working with the Board for Professional Engineers, Land Surveyors, and Geologists (BPELSG/Board); first as the land surveyor consultant before assuming the newly created staff position of Senior Registrar Land Surveyor/Examinations Manager, eventually moving into my current position as Executive Officer. During that time, I have had the opportunity to learn several important aspects related to licensure at the Board:

- **The acts and regulations that BPELSG regulates:** Arriving at the Board in early 2007, after working the previous 10 years on all aspects associated with the development of the state land surveyor exam while actively practicing, I thought I had a firm grasp of the language of the laws and what the requirements were—I set myself up for an awakening! Based on my (then) experience, I possessed a level of knowledge that I would characterize as a “minimal working knowledge,” akin to those licensed professionals who make sure the laws are a handy occasional reference to verify compliance during the course of projects or to support exam content. After spending time working at the Board side-by-side with staff, having discussions with Board members, researching and responding to inquiries from the public, evaluating disciplinary actions, and just engaging in conversations with other licensed professionals, my level of knowledge has grown tremendously, which has provided me with a more thorough understanding of our laws.
- **California’s role on a national level:** I always knew that boards such as BPELSG existed in every other state in the country for the same purpose. I just never thought much past that. California is not only the largest board regulating engineering, land surveying, and geology in the United States and its territories in terms of number of licenses issued, it has twice more than the nearest other state. BPELSG plays a rather significant role in its capacity as a member board at the National Council of Examiners for Engineering and Surveying (engineers and surveyors) and the National Association of State Boards of Geology (geologists), and while important, it’s simply not good enough for California to just be “the big duck in a crowded pond.” In addition to the efforts demonstrated by these previously mentioned national organizations, the benefits resulting from collaborations with the many other well-organized licensing boards

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BOARD NEWS



In Memoriam: Vincent A. DiTomaso, P.E.

The Board is saddened to announce the passing of former Board member Vincent A. DiTomaso, P.E. Vince passed away in December at the age of 88.

Vince became licensed as an electrical engineer in 1956. He was appointed by Governor Pete Wilson in October 1996 to serve as the electrical engineer member of the Board. While on the Board, Vince served on the Administrative, Enforcement, and Examinations/Qualifications Committees and was the Board liaison to the Electrical Engineering and Mechanical Engineering Technical Advisory Committees. Vince was the Board's Vice President from July 2000 through June 2001 and the President from July 2001 through April 2002, when his membership on the Board ended. Vince was instrumental in leading the Board through many crucial projects, including the Legislative Sunset Review process, supporting legislation to allow for a fee increase, and the development of language for the Codes for Professional Conduct.

Vince was also a gourmet chef, wine connoisseur, and world traveler, and loved to entertain Board members and staff with home-cooked meals and stories of his cooking trips through Italy. He will be missed!

BOARD MEMBERS

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Kathy Jones Irish

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Eric Johnson, P.E.

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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

Message From the Executive Officer (continued from page 1)

across the nation are recognized by the Board as well. This directly benefits BPELSG's licensees and their consumers.

- **Serving the public:** Again, I always had this vague understanding as to why I was licensed, but this concept evolved significantly during the past 10 years. It has become extremely satisfying watching BPELSG make strides toward meeting the needs of the individuals, groups, organizations, lawmakers, firms, agencies, etc., that rely upon both BPELSG staff and Board members to not only do their work in the best manner possible but care about the outcome. We may not always get it right, but regardless of how difficult the individual is that we are communicating with, how bad we feel when we make a mistake, or the weight of responsibility that we all feel when disciplining a licensee, we always keep in mind why we are doing this.

I wish that each and every licensed professional had the same opportunity I've been fortunate enough to experience by delving into the laws that govern the whom (public), why (to protect), and how (requirements) behind the "practice-based services" that are regulated. In a sense, BPELSG is indirectly involved in each and every project that our licensed professionals are directly performing and overseeing.

Please take the time to peruse this edition of the Board's *Bulletin*. And please sign up for BPELSG's e-mail subscriber list. It can be found at www.bpelsg.ca.gov under "Quick Hits." This is the simplest way for practicing professionals, applicants, and others to stay in touch with what's happening at BPELSG.

Unmanned Aerial Vehicles and Land Surveying Practice in California

STEVE WILSON, P.E., PLS, BOARD MEMBER, AND DALLAS SWEENEY, PLS, SENIOR REGISTRAR

The equipment used by land surveyors to produce accurate topographic maps has evolved over the last 20 years. Not long ago, land surveyors gathered field data one point at a time using traditional field equipment and larger field crews, then duplicated the tedious field work on vellum paper taped to a drafting table. Now, traditional aerial photogrammetric mapping procedures that used very expensive equipment are being replaced by terrestrial scanners and low-altitude drones, which can be a viable means of mapping smaller areas.

However, no matter how field data are acquired, the process of locating any fixed works designed by a civil engineer or determining alignments or elevations is required by law to be performed by, or under the responsible charge of, persons licensed to perform land surveying.

An unmanned aerial vehicle, commonly known as a drone.



The lower investment cost for using unmanned aerial vehicles (UAVs) or low-altitude drones to capture and orthogonally rectify photo images to the shape of the Earth has encouraged widespread use. As a result, the ease at which the low-cost equipment can be used and the availability of the software to process the photography and data have tempted some to enter into the unlicensed practice of land surveying.

There are a variety of new companies with entrepreneurs offering services, including drone flight planning, drone piloting, and obtaining the photography. Although regulated by the Federal Aviation Association, these specific activities are not regulated by the Professional Land Surveyors' Act. What is regulated by the Professional Land Surveyors' (PLS) Act, and the Professional Engineers

(PE) Act to a lesser degree, is the production of any work depicting the locations or elevations of what is captured in the photography relative to the Earth's surface.

The essential part of getting the photo images into useful data is when the licensed land surveyor employs field auditing procedures to verify that the ground control points and software mapping are accurate within the tolerances specified for the project.

Any civil engineering or architectural product, when designed in relation to any property boundaries, setbacks, or existing physical (fixed) improvements, requires dependable and accurate topographic information. No matter what tools are used to gather and depict the field data, the responsibility and liability for accuracy lie with the professional authorized to practice land surveying.

Professional land surveyors are required to be responsible for the accuracy and correctness of their work. Mapping produced by those who may not have the training, education, and experience and who have not proven themselves competent to recognize potential errors or inaccuracies has the potential to cause harm to the public from any number of problems that may arise during subsequent use of the data. It is in the best interest of all design professionals to insist on accurate and reliable mapping.

When is an operator of a UAV performing land surveying?

Simply put, when the operator creates a topographical survey or overlays a boundary on an orthogonally rectified photo and provides the finished product to a private client or public agency, the operator must be authorized by law to perform land surveying. Persons who offer to do more than flying the UAV and obtaining the photography would be violating the law if their services also include orthogonally rectifying the photography to the surface of the Earth or preparing a map that shows any of the items

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BULLETIN

Examination Statistics

The Board has compiled statistic results for the most recent examinations, along with historical comparisons of examination results from one year to the next. Additionally, we have included an in-depth display of California civil engineering results versus the national civil engineering examination results, and California land surveyor results versus National Principles of Surveying examination results.

FALL 2016 PROFESSIONAL ENGINEER, LAND SURVEYORS, AND GEOLOGY EXAMINATION STATISTICS

CIVIL ENGINEERING	PASS	FAIL	TOTAL	PASS RATE
Principles and Practices (National)	753	902	1,655	45%
Seismic Principles	738	957	1,695	44%
Engineering Surveying	1,013	887	1,900	53%
LAND SURVEYING	PASS	FAIL	TOTAL	PASS RATE
Principles and Practices (National)	36	26	62	58%
Surveying (State Specific)	47	120	167	28%
OTHER ENGINEERING DISCIPLINES	PASS	FAIL	TOTAL	PASS RATE
Chemical	25	16	41	61%
Control Systems	3	12	15	20%
Electrical	121	154	275	44%
Fire Protection	23	13	36	64%
Mechanical	212	118	330	64%
Metallurgical	3	3	6	50%
Nuclear	0	0	0	N/A
Petroleum	0	3	3	0%
Traffic	31	50	81	38%
2016 GEOTECHNICAL CONTINUOUS TESTING	PASS	FAIL	TOTAL	PASS RATE
Geotechnical	23	69	92	25%
STRUCTURAL	ACCEPTABLE	UNACCEPTABLE	TOTAL	PASS RATE
Lateral Forces	43	70	113	38%
Vertical Forces	41	87	128	32%
2016 FUNDAMENTALS EXAMINATIONS	PASS	FAIL	TOTAL	PASS RATE
Engineering	3,506	2,372	5,878	60%
Land Surveyors	58	138	196	30%
GEOLOGY	PASS	FAIL	TOTAL	PASS RATE
ASBOG Fundamentals of Geology	87	49	136	64%
ASBOG Practice of Geology	57	21	78	73%
California Specific Examination	57	43	100	57%
SPECIALTY CERTIFICATIONS AND PROFESSIONAL GEOPHYSICIST	PASS	FAIL	TOTAL	PASS RATE
Certified Engineering Geologist	21	16	37	57%
Certified Hydrogeologist	21	6	27	78%
Professional Geophysicist	5	4	9	56%

N/A = Not applicable

(continued on page 5)

Examination Statistics (continued from page 4)

EXAMINATION STATISTICS – ANNUAL COMPARISONS

	SPRING 2015				SPRING 2016			
CIVIL ENGINEERING	PASS	FAIL	TOTAL	PASS RATE	PASS	FAIL	TOTAL	PASS RATE
Principles and Practices (National)	744	878	1,622	46%	756	811	1,567	48%
Seismic Principles	919	859	1,778	52%	1,035	894	1,929	54%
Engineering Surveying	764	1,006	1,770	43%	760	1,113	1,873	41%
LAND SURVEYING	PASS	FAIL	TOTAL	PASS RATE	PASS	FAIL	TOTAL	PASS RATE
Principles and Practices (National)	32	23	55	58%	37	22	59	63%
Surveying (State Specific)	42	151	193	22%	43	154	197	22%
OTHER ENGINEERING DISCIPLINES	PASS	FAIL	TOTAL	PASS RATE	PASS	FAIL	TOTAL	PASS RATE
Agricultural	1	1	2	50%	0	2	2	0%
Chemical	24	17	41	59%	15	9	24	63%
Electrical	112	185	297	38%	96	149	245	39%
Industrial	4	2	6	67%	2	4	6	33%
Mechanical	189	125	314	60%	168	105	273	62%
STRUCTURAL	ACCEPTABLE	UNACCEPTABLE	TOTAL	PASS RATE	ACCEPTABLE	UNACCEPTABLE	TOTAL	PASS RATE
Lateral Forces	45	56	101	45%	63	63	126	50%
Vertical Forces	56	57	113	50%	48	73	121	40%
GEOLOGY	PASS	FAIL	TOTAL	PASS RATE	PASS	FAIL	TOTAL	PASS RATE
ASBOG Fundamentals of Geology	26	12	38	68%	86	40	126	68%
ASBOG Practice of Geology	36	13	49	73%	46	14	60	77%
California-Specific Examination	25	62	87	29%	66	32	98	67%

	FALL 2015				FALL 2016			
CIVIL ENGINEERING	PASS	FAIL	TOTAL	PASS RATE	PASS	FAIL	TOTAL	PASS RATE
Principles and Practices (National)	675	854	1,529	44%	753	902	1,655	45%
Seismic Principles	671	963	1,634	41%	738	957	1,695	44%
Engineering Surveying	889	872	1,761	50%	1,013	887	1,900	53%
LAND SURVEYING	PASS	FAIL	TOTAL	PASS RATE	PASS	FAIL	TOTAL	PASS RATE
Principles and Practices (National)	16	23	39	41%	36	26	62	58%
Surveying (State Specific)	29	129	158	18%	47	120	167	28%
OTHER ENGINEERING DISCIPLINES	PASS	FAIL	TOTAL	PASS RATE	PASS	FAIL	TOTAL	PASS RATE
Chemical	21	12	33	64%	25	16	41	61%
Control Systems	19	8	27	70%	3	12	15	20%
Electrical	95	161	256	37%	121	154	275	44%
Fire Protection	16	13	29	55%	23	13	36	64%
Mechanical	171	120	291	59%	212	118	330	64%

(continued on page 6)

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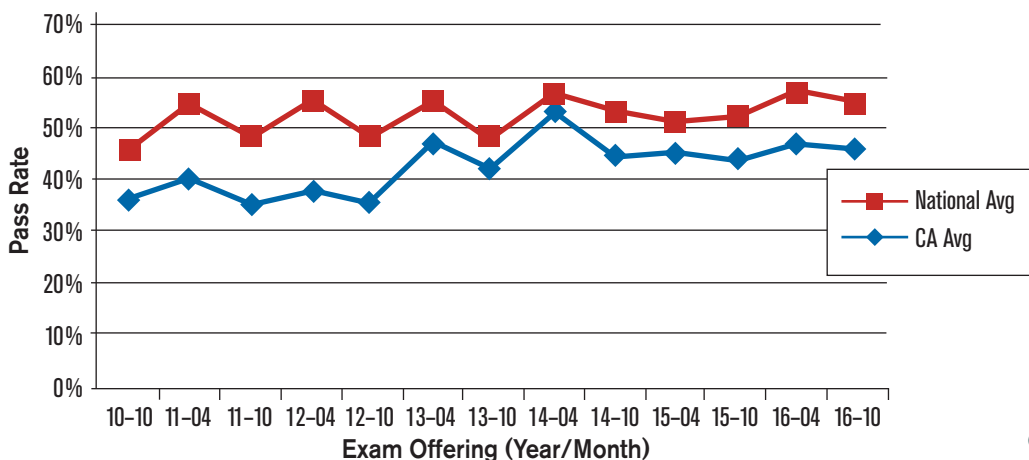
Examination Statistics (continued from page 5)

	FALL 2015				FALL 2016			
CIVIL ENGINEERING	PASS	FAIL	TOTAL	PASS RATE	PASS	FAIL	TOTAL	PASS RATE
Metallurgical	8	3	11	73%	3	3	6	50%
Nuclear	0	0	0	0%	0	0	0	0%
Petroleum	3	2	5	60%	0	3	3	0%
Traffic	34	37	71	48%	31	50	81	38%
STRUCTURAL	ACCEPTABLE	UNACCEPTABLE	TOTAL	PASS RATE	ACCEPTABLE	UNACCEPTABLE	TOTAL	PASS RATE
Lateral Forces	31	37	68	46%	43	70	113	38%
Vertical Forces	39	58	97	40%	41	87	128	32%
GEOLOGY	PASS	FAIL	TOTAL	PASS RATE	PASS	FAIL	TOTAL	PASS RATE
ASBOG Fundamentals of Geology	55	31	86	64%	87	49	136	64%
ASBOG Practice of Geology	34	18	52	65%	57	21	78	73%
California-Specific Examination	51	31	82	62%	57	43	100	57%
SPECIALTY CERTIFICATIONS AND PROFESSIONAL GEOPHYSICIST	PASS	FAIL	TOTAL	PASS RATE	PASS	FAIL	TOTAL	PASS RATE
Certified Engineering Geologist	20	29	49	41%	21	16	37	57%
Certified Hydrogeologist	12	6	18	67%	21	6	27	78%
Professional Geophysicist	4	4	8	50%	5	4	9	56%

GEOTECHNICAL AND FUNDAMENTALS EXAMINATION STATISTICS COMPARISON

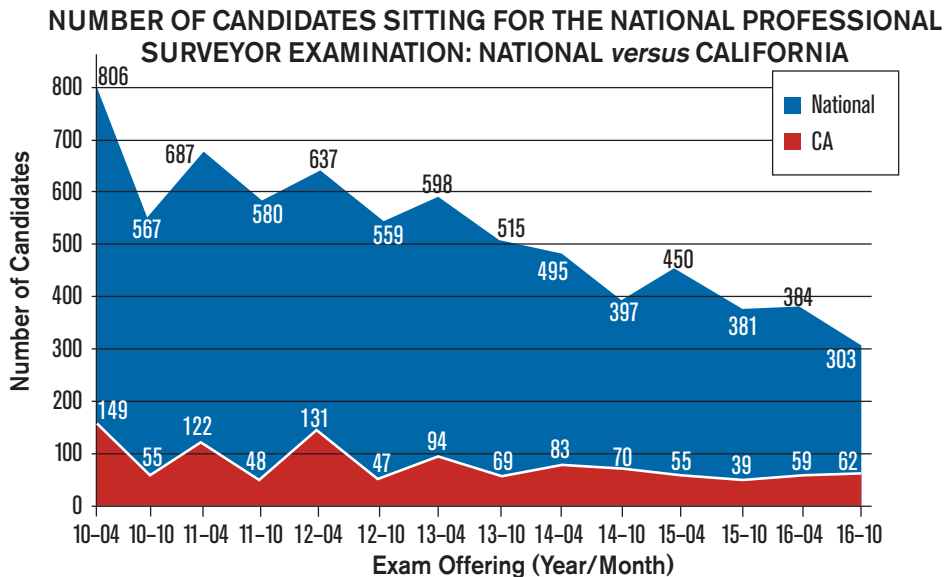
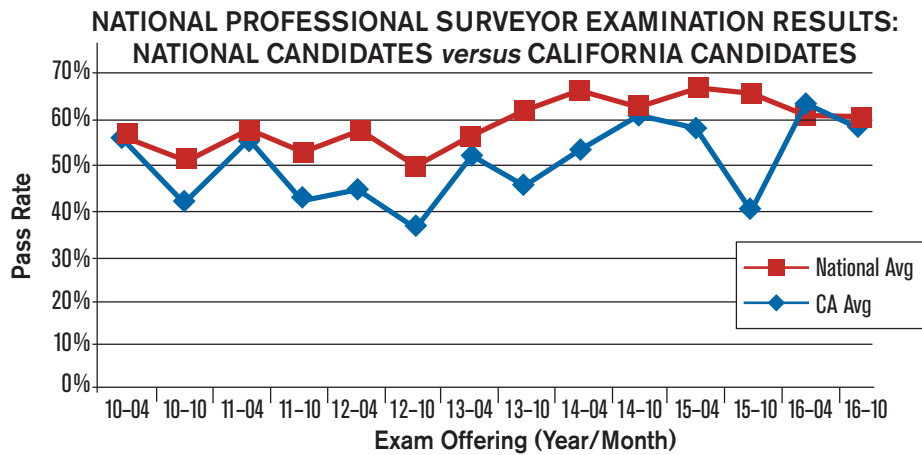
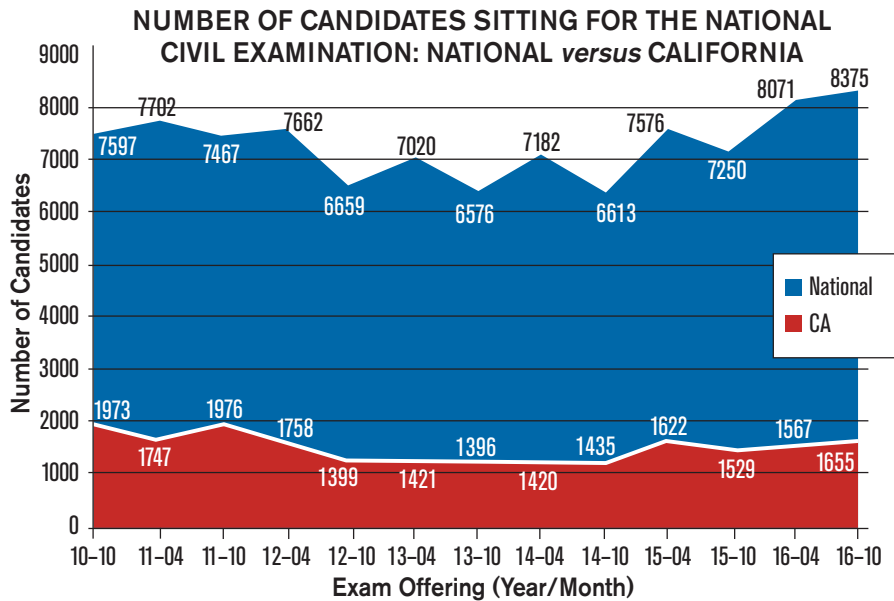
	2015				2016			
GEOTECHNICAL CONTINUOUS TESTING	PASS	FAIL	TOTAL	PASS RATE	PASS	FAIL	TOTAL	PASS RATE
Geotechnical	23	69	92	25%	22	36	58	38%
FUNDAMENTALS EXAMINATIONS	PASS	FAIL	TOTAL	PASS RATE	PASS	FAIL	TOTAL	PASS RATE
Engineering	3,081	1,996	5,077	61%	3,506	2,372	5,878	60%
Land Surveyors	60	83	143	42%	58	138	196	30%

**NATIONAL CIVIL ENGINEERING EXAMINATION RESULTS:
NATIONAL CANDIDATES versus CALIFORNIA CANDIDATES**



(continued on page 7)

Examination Statistics (continued from page 6)



Unmanned Aerial Vehicles and Land Surveying Practice in California (continued from page 3)

contained in PLS Act Sections 8726(a), (b), and (f) and 8775.1 or Section 6731.1(a) and (b) of the PE Act, unless that work is performed by, or under the responsible charge of, a person authorized to perform land surveying.

What can BPELSG do to help with this problem?

One method is through education. BPELSG is available to collaborate with the professional organizations within the state to educate the users of UAVs by explaining which processes must be done by, or under the responsible charge of, a person authorized to perform land surveying. This may be a very valuable resource to help reduce the possibility of offering land surveying services without a license.

The other is through enforcement. If you know of an individual or company that you believe is offering unlicensed land surveying services, contact the Board. You can either submit an inquiry or file a complaint with our Enforcement Unit. Once we have the information, we would contact the individual or company and discuss with them how they may be in violation of the laws. Based on this contact and the response or actions of the individual or company, the Enforcement Unit will determine the proper course of action.

BULLETIN

Enforcement Actions

Citations Issued to Licensees: Fiscal Year 2016–17 (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 BPESLG.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
ALVAREZ, DAVID	10535-L	8762(b)(4); 8780(d); 404.2	11/25/2016	\$1,500	Paid
BAILEY, CHRISTOPHER	10524-L	8762(c)	12/14/2016	\$0	N/A
LINDELL, DAVID	10529-L	8771(b); 8780(b)	10/6/2016	\$3,200	Paid
MAEVERS, KENTON	10490-L	8780(b); 8776(a)(3)	10/24/2016	\$1,000	Paid
PARKINSON, CRAIG	CG 2013-19	7860(b)(2)	11/17/2016	\$1,500	
QUENTIN, PETER	10532-L	8761; 8760(d); 464(c)	12/14/2016	\$3,000	Paid
REAM, ALAN	10539-L	8759(a)(3),(5); 8762(b)(4),(5); 8762(c); 8773.2(b); 8780(b)	12/3/2016	\$2,500	
ROMERO, JOSE	10533-L	8759; 8761; 8762; 8771; 8772; 8780(b)	10/22/2016	\$2,500	
TORRES, EFREN	10489-L	6749(a); 6775(f), (h); 6738(a)(3)	10/13/2016	\$2,000	Paid
STAFFORD, PATRICE	10501-L	6749(a)(5); 6775(d)	7/23/2016	\$1,250	

Citations Issued to Unlicensed Individuals: Fiscal Year 2016–17 (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 BPESLG.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
BAKER, BRETT	CG 2015-09	7872(a), (g), (h); 7833	12/3/2016	\$1,000	
BEDOYA, EDGAR	10531-U	6787(d), (f)	10/6/2016	\$6,250	Paid
DIA, ADAM	10343-U	6787(a), (g), (h); 7872(a), (f), (g)	10/12/2016	\$12,000	
JANGOZIAN, VARTAN	10488-U	6787(a), (j); 6738(a)(3)	10/13/2016	\$1,000	Paid
VAUGHN, GLEN	10537-U	6787(a), (g)	12/3/2016	\$2,000	Paid
WHITE, JOHN	10088-L	8792(a)	9/25/2016	\$1,000	Paid

(continued on page 9)

Enforcement Actions (continued from page 8)

Formal Administrative Disciplinary Decisions: Fiscal Year 2016–17 (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 Number	Effective Date	Disciplinary Order
CARRIZOSA, RICHARD	1090-A	11/10/2016	Voluntary surrender of Pre-82 civil engineer license; issuance of new civil engineer license

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.

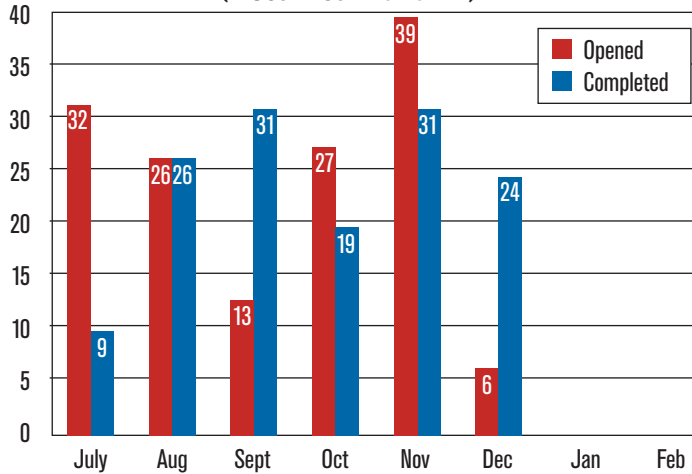
Suspended: The licensee is prohibited from practicing for a specific period of time.

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.

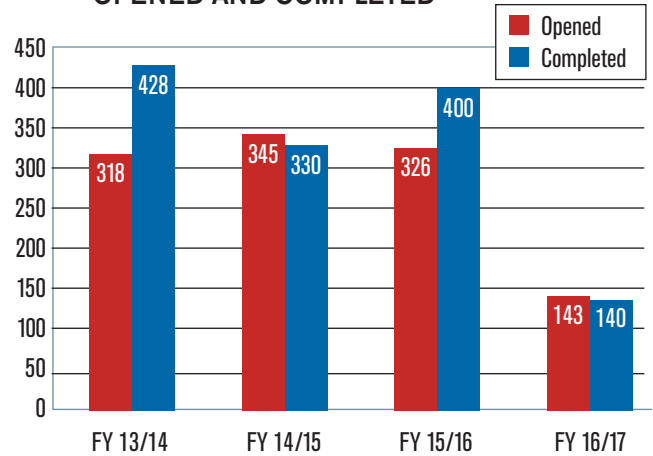
BULLETIN

Enforcement Unit Reports and Information

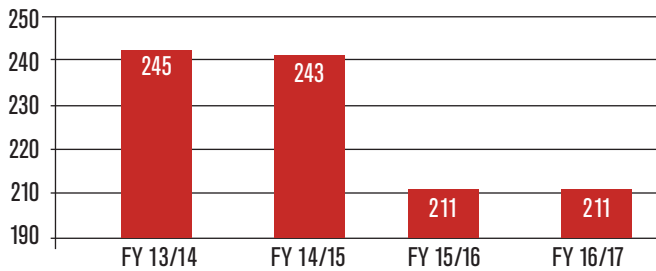
NUMBER OF COMPLAINT INVESTIGATIONS OPENED AND COMPLETED BY MONTH (Fiscal Year 2016/17)



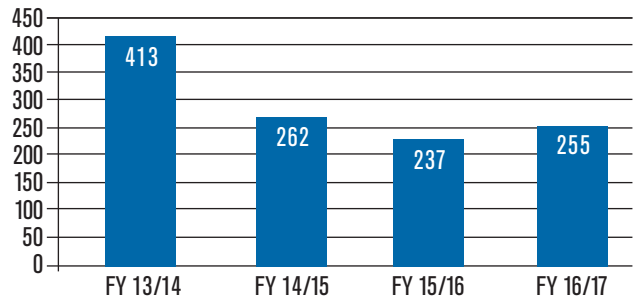
COMPLAINT INVESTIGATIONS OPENED AND COMPLETED



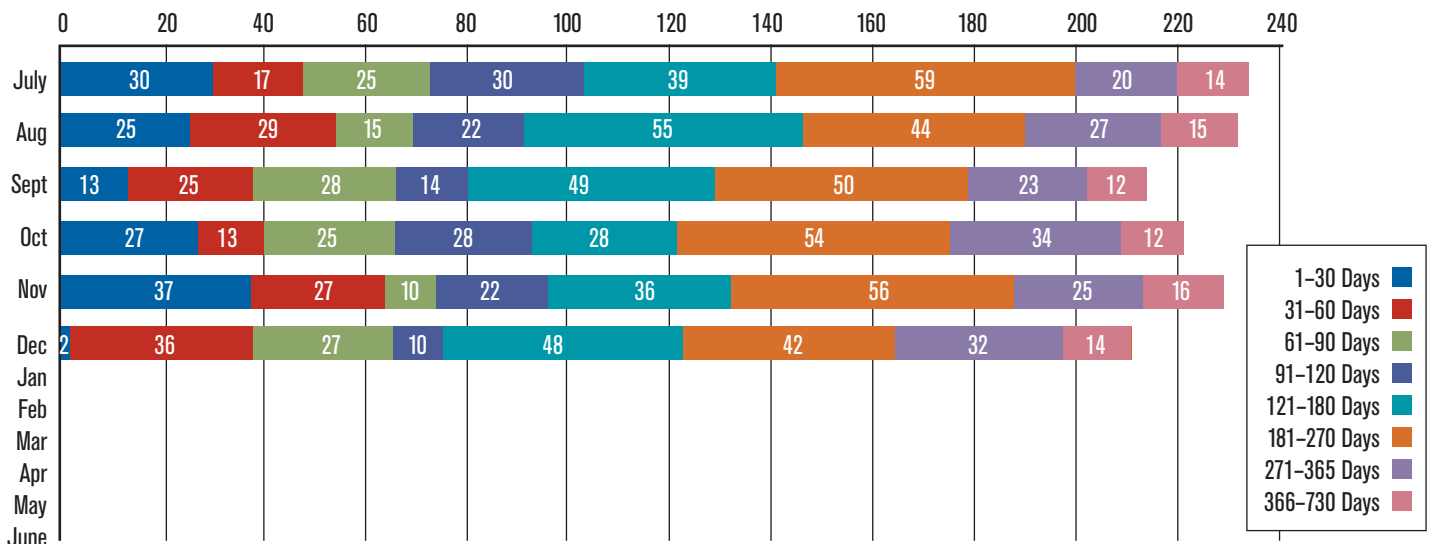
NUMBER OF OPEN (PENDING) COMPLAINT INVESTIGATIONS (at end of fiscal year or month for current fiscal year)



AVERAGE DAYS FROM OPENING OF COMPLAINT INVESTIGATION TO COMPLETION OF INVESTIGATION



AGING OF OPEN (PENDING) COMPLAINT INVESTIGATION CASES: FISCAL YEAR 16/17

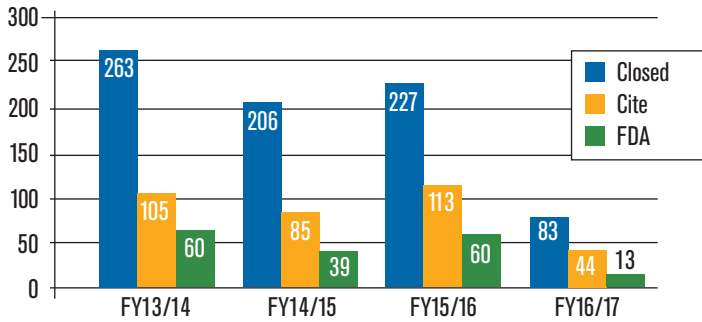


NOTE: Fiscal Year (FY) 2016/17 statistics are through December 31, 2016.

(continued on page 11)

Enforcement Unit Reports and Information (continued from page 10)

OUTCOME OF COMPLETED INVESTIGATIONS



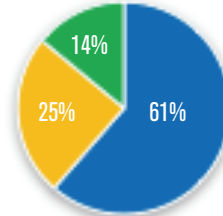
NOTE: FY16/17 statistics are through December 31, 2016.

Closed = Closed with no action taken, includes the categories listed on the next page.

Cite = Referred for issuance of citation.

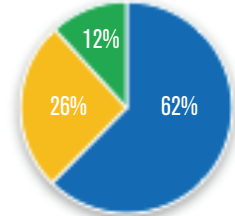
FDA = Referred for formal disciplinary action.

FY 13/14



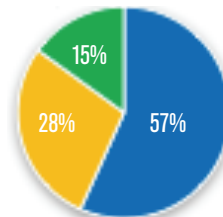
TOTAL: 428

FY 14/15



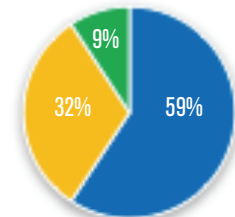
TOTAL: 330

FY 15/16



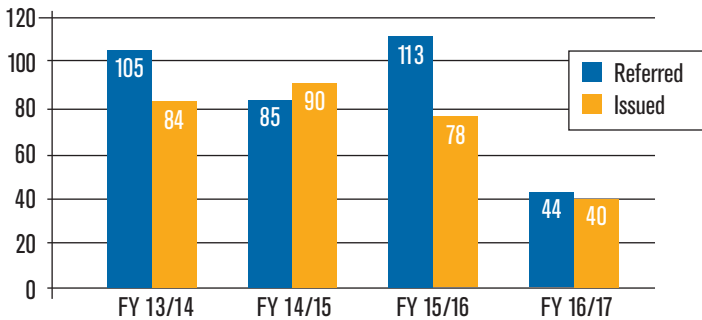
TOTAL: 400

FY 16/17

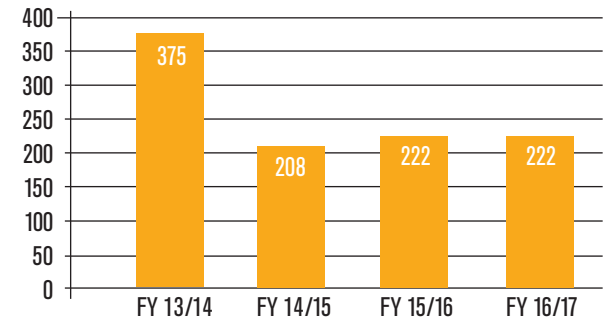


TOTAL: 140

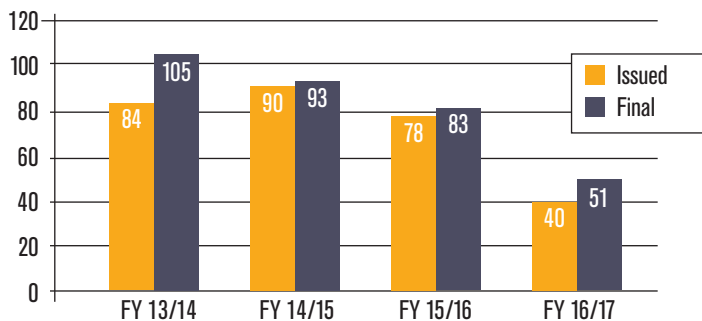
NUMBER OF COMPLAINT INVESTIGATIONS REFERRED AND NUMBER OF CITATIONS ISSUED



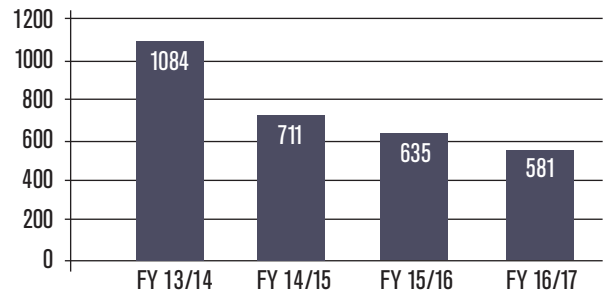
AVERAGE DAYS BETWEEN DATE OF ISSUANCE OF CITATION AND DATE CITATION BECOMES FINAL



NUMBER OF CITATIONS ISSUED AND FINAL



AVERAGE DAYS FROM OPENING OF COMPLAINT INVESTIGATION TO DATE CITATION BECOMES FINAL



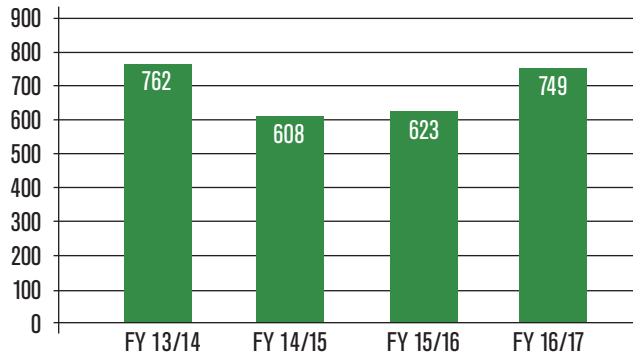
NOTE: FY16/17 statistics are through December 31, 2016.

(continued on page 12)

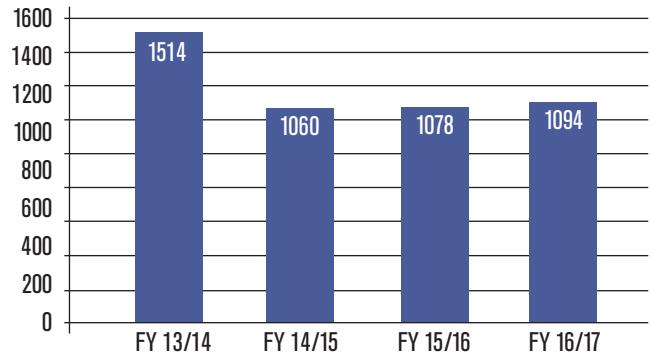
BULLETIN

Enforcement Unit Reports and Information (continued from page 11)

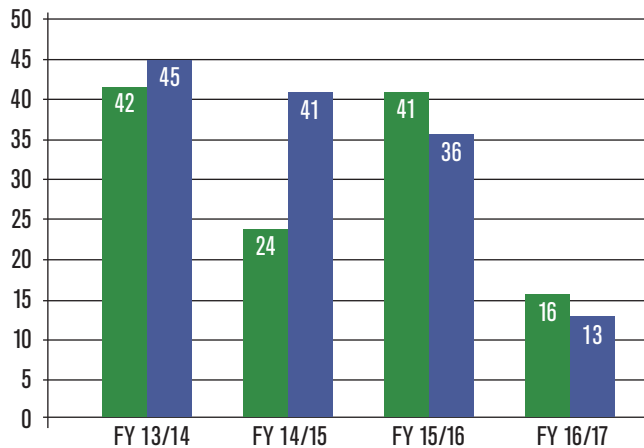
AVERAGE DAYS FROM REFERRAL FOR FORMAL DISCIPLINARY ACTION TO EFFECTIVE DATE OF FINAL DECISION



AVERAGE DAYS FROM OPENING OF COMPLAINT INVESTIGATION TO EFFECTIVE DATE OF FINAL DECISION



NUMBER OF LICENSEES REFERRED FOR FORMAL DISCIPLINARY ACTION AND NUMBER OF FINAL DISCIPLINARY DECISIONS



■ Referred
■ Final

NOTE: FY16/17 statistics are through December 31, 2016.



OUTREACH EVENTS: October–December 2016

ENGINEERS

October 5: Los Angeles Department of Water and Power

Executive Officer Ric Moore was invited to facilitate a discussion on recent legislative/regulatory changes that affect the Board’s operations and licensure, including future changes to the application for licensure process and examinations. There were approximately 50–75 attendees.



Los Angeles Department of Water and Power Museum display about the Saint Francis Dam disaster that led to the formation of BPELSG and licensing of civil engineers.



LAND SURVEYORS

October 6–7: California State Polytechnic University, Pomona, Geomatics Conference

Executive Officer Ric Moore was invited to present to students, professors, and local professionals on applying to become licensed and to discuss changes to the application/exam process. Mr. Moore was joined for a second presentation by Tiffany Criswell, Enforcement Program Manager, to give a detailed view of the Board’s complaint and investigation process. Each session had about 15–20 attendees.



October 12: California Land Surveyors Association (CLSA)

Executive Officer Ric Moore facilitated a webinar hosted by CLSA regarding changes to the professional land surveyor application/exam process statewide. There were approximately 50–65 attendees.



December 1: CLSA Desert Chapter

Executive Officer Ric Moore facilitated a meeting hosted by CLSA regarding changes to the application/exam process statewide.

December 8: CLSA San Diego Chapter

Executive Officer Ric Moore gave a presentation with Dallas Sweeney, Senior Registrar for Land Surveying, on land surveyor licensing requirements. The event was hosted by CLSA.

GEOLOGY

Board Senior Registrar for Geology, Laurie Racca, P.G., gave presentations at the following venues on the licensing process and Board Rules:

November 9: Central Valley Regional Water Quality Control Board (Ranch Cordova) and University of California, Berkeley

November 10: California Energy Commission (Sacramento)

November 17: California State Polytechnic University, Pomona

November 22: Division of Mine Reclamation (Sacramento)

November 29: Central Valley Regional Water Quality Control Board (Ranch Cordova) and University of California, Berkeley

November 30: Division of Mine Reclamation (Santa Ana)

December 1: California State University, East Bay

December 6: Division of Mine Reclamation (Redding)

Get to Know Our Licensees



Meet Phil Ball, P.E., Chief Design Engineer with a design build company, ME License 30161

**Why did you become a professional engineer (PE)?
What drew you to the field?**

While growing up, I was naturally curious about life. Without the benefits of the

Internet at the time, various aptitude tests were used to help narrow down my field of focus to mechanical engineering. When investigating the mechanical engineering career fields, I was drawn to the construction industry because it provided the ability to directly affect the lives of others. It gave me the opportunity to interact with clients, understand their needs, and then work with a team of architects and engineering professionals to develop a successful project that satisfies the requirements. Typically, no two projects are the same, so it allows a dynamic set of problem solving. In the construction industry, a mechanical HVAC (heating, ventilation, and air conditioning) consultant needs to obtain their professional engineering credentials to be in responsible charge of a project; so I focused on the requirements of acquiring it as soon as possible, which involved passing my Fundamental of Engineering (engineer-in-training/EIT) test while still in college.

Where did you attend school, and what additional courses did you take after receiving your degree?

I obtained my bachelor of science in mechanical engineering from California State University, Sacramento. After a few years of work experience, I attended the HVAC extension class curriculum at University of California, Davis. I received my Leadership in Energy and Environmental Design (LEED) credentials and I'm a certified systems commissioning professional through the National Environmental Balancing Bureau.

What value does professional licensure represent to you, and how has it helped you?

The PE license imparts many benefits upon those who earn it. The ability to successfully complete the licensure requirements shows others that you have a multidisciplinary understanding of physical and engineering principles, independent decision-making skills, and personal accountability in design and application, along with the associated ethical standards of the profession. In my profession as an HVAC consulting engineer, I have found that there are many exceptional individuals who add value to the industry who may not have their PE license; however, PE credentials set you apart by distinguishing your qualifications. This is especially true when interacting with new clientele that may not have had the ability to measure your performance yet. The PE licensure also gives me the authority to serve as an expert witness when there is a disagreement regarding the technical aspects of the field and associated standard of care.

Elaborate on your interactions with BPELSG and the value of those interactions—both to you, the Board, and the public, if applicable.

As a member of the Mechanical Engineering Technical Advisory Committee for BPELSG, I was able to interact with individuals tasked to regulate the practice of professional engineering in California to help protect the health, safety, and welfare of the public. Through the leadership of the Board Executive Officer, Richard Moore, his team acts in accordance with the highest standards of ethics, accountability, and efficiency in the licensing and regulatory processes. They clearly define the parameters of the engineering profession. BPELSG is an agency dedicated to establishing and maintaining individual professional responsibility among the regulated engineering community and providing the ethical and legal framework from which engineers provide their services to the public.

(continued on page 17)

Corner Record Changes

On December 21, 2016, the Office of Administrative Law approved changes to Section 464 of the Board Rules related to use of the Corner Record form while practicing land surveying. The language in Title 16, California Code of Regulations (CCR), Division 5, Section 464, and the associated form were changed based on feedback from the licensed land surveying community and review by the Board's Land Surveyor Technical Advisory Committee. The Board had recognized that it had been almost 10 years since Section 464 was last amended and believed that changes to enabling statutes and current land surveying practices made it necessary to revise the language and associated form.

Specifically, the changes address three primary issues:

1. Although the content of the Corner Record form was defined in CCR Section 464 and could not be changed, many agencies added "index" numbers to the form for the purposes of cataloging the completed forms within the agency's public files. These amendments added a field to allow agencies to more clearly standardize this "index" numbering without modifying the form, which is not allowed.
2. The language in Section 464 was revised to accommodate all enabling statutes under the Professional Land Surveyors' Act that required use of the Corner Record form. The Corner Record form now requires those authorized to prepare and file

it to indicate which enabling statute the survey was performed under.

3. The Corner Record form was updated to recognize technology changes occurring in land surveying practice related to the preparation, submittal, and filing of electronic documents with the appropriate agency.

There are two electronic versions of the new Corner Record form available on the Board's website. One version is provided in fillable PDF format that allows completion of the form entirely in electronic format before printing, sealing, dating, and signing. The second version is a flat PDF format that can be printed, manually filled out, and submitted in a traditional manner for those individuals or agencies that have not fully transitioned to electronic submissions.

It is important to understand that effective April 1, 2017, all new Corner Record submittals must use the new form. However, any Corner Record forms that were signed, sealed, and dated in accordance with Title 16, CCR Section 411, and submitted to the appropriate agency prior to the aforementioned effective date do not need to be submitted on the new form.

The new Corner Record form and instructions can be found on the Board's website at www.bpelsg.ca.gov/pubs/forms/corner_record.pdf.

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 "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.

National Association News

ABET

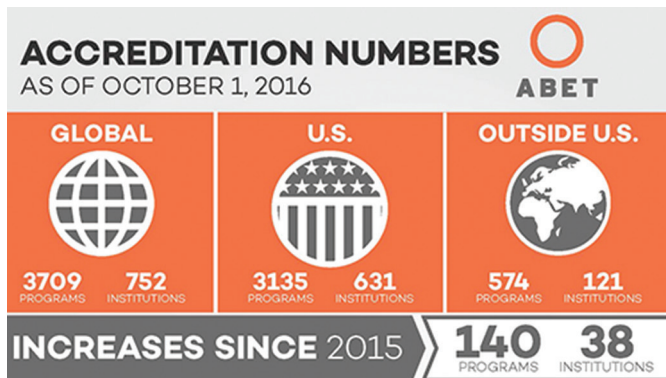
ABET is a not-for-profit, nongovernmental accrediting agency for programs in applied science, computing, engineering, and engineering technology. To learn more about ABET, visit www.abet.org/about-abet/.



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. It provides 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>.

ABET-Accredited Programs and Expert Pool Expanding



As an organization, ABET had one of its most active years yet in 2016. We expanded our presence to 30 countries and now have 3,709 programs at 752 institutions. We wouldn't be able to do this without the hard work and commitment of our experts, who dedicate their time to ensure students of all walks of life are prepared to make our world safer, more efficient, more comfortable, and

sustainable. Speaking of which, we trained a record number of program evaluators this year—160 came to our headquarters to participate in one of our four face-to-face training sessions last spring.

For more ABET news, visit www.abet.org/abet-news/.

ASBOG

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.

Administrators Workshop, 27th Annual Meeting, and Fall Council of Examiners November 1–4, 2016

The 27th annual ASBOG meeting was held in Lawrence, KS. Elizabeth Mathieson, the geology member of the Board, attended as the representative from California. The annual meeting focused on tasks associated with business and operations of ASBOG as an organization, including votes on proposed charter and bylaw changes, election of ASBOG officers, and review of the ASBOG budget. The annual meeting included educational presentations on the geology of the South Lawrence Trafficway and restoration of the Baker Wetlands, as well as the conversion of the former Meritex Limestone Mine to use as underground storage and offices for local business. Mining was previously done using the room and pillar method leaving structurally stable void space now used for sustainable re-use.

(continued on page 17)

National Association News (continued from page 16)



BPELSG geologist member Elizabeth Mathieson and BPELSG Senior Registrar Laurie Racca in the former Meritex Mine.

The ASBOG administrator’s workshop, held November 1, provided an opportunity for ASBOG member Board executive directors, administrators, and their assistants an opportunity to deepen their understanding of ASBOG examination procedures and protocols through

hands-on training, as well as provide an opportunity for collaboration on common issues between member boards. BPELSG Senior Registrar Laurie Racca gave a presentation focused on the California Board’s efforts to clarify the existing education requirements for professional geologists.

The fall ASBOG Council of Examiners (COE) was held two days after the ASBOG annual meeting. A record number of subject matter experts volunteered and participated in the November 2016 ASBOG COE workshops. The large number of participants allowed for three working groups. One group was dedicated to writing new exam questions. The other two groups worked on review and scoring of the fall 2016 exams (Fundamentals of Geology exam and Professional Geologist exam), and the review of the exam forms for the spring 2017 exam administration.

Get to Know Our Licensees: Phil Ball, P.E., ME License 30161 (continued from page 14)

What are your responsibilities as Chief Design Engineer at a private company?

As the Chief Engineer I'm tasked with providing daily leadership to the entire engineering team. I'm focused on steering my exceptional team to produce high-quality designs that meet the project schedule and technical demands. As a mechanical consultant in the construction industry, my expertise revolves around the HVAC process and plumbing systems design and construction. We have to be well versed in all phases of the project from inception through completion. During construction, I provide technical support to our project managers and field crews. I'm also involved with the commissioning phase of the project by overseeing the testing procedure to ensure a working system for the client.

What advice would you give to someone just starting their engineering career?

Engineers play a vital role in providing innovative solutions to everyday problems. Our clients come to us because they need our associated technical expertise. That expertise is gained through constantly being a sponge for information. Surround yourself with knowledge of others through reading, continuing education, direct interaction with peers, and curiosity. Question everything until you understand and have the ability to explain it to others. Focus on your public speaking ability as the most valuable engineer is one that can effectively communicate their ideas to their client. Prove to your clients that this is the field you have chosen to dedicate your career to by completing milestones such as obtaining your professional engineering license!

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:

Regulations

The Board submitted a rulemaking proposal to amend Section 425 of Title 16, Division 5 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 the California Regulatory Notice Register on August 12, 2016 (Register 2016, No. Z-2016-0802-09).

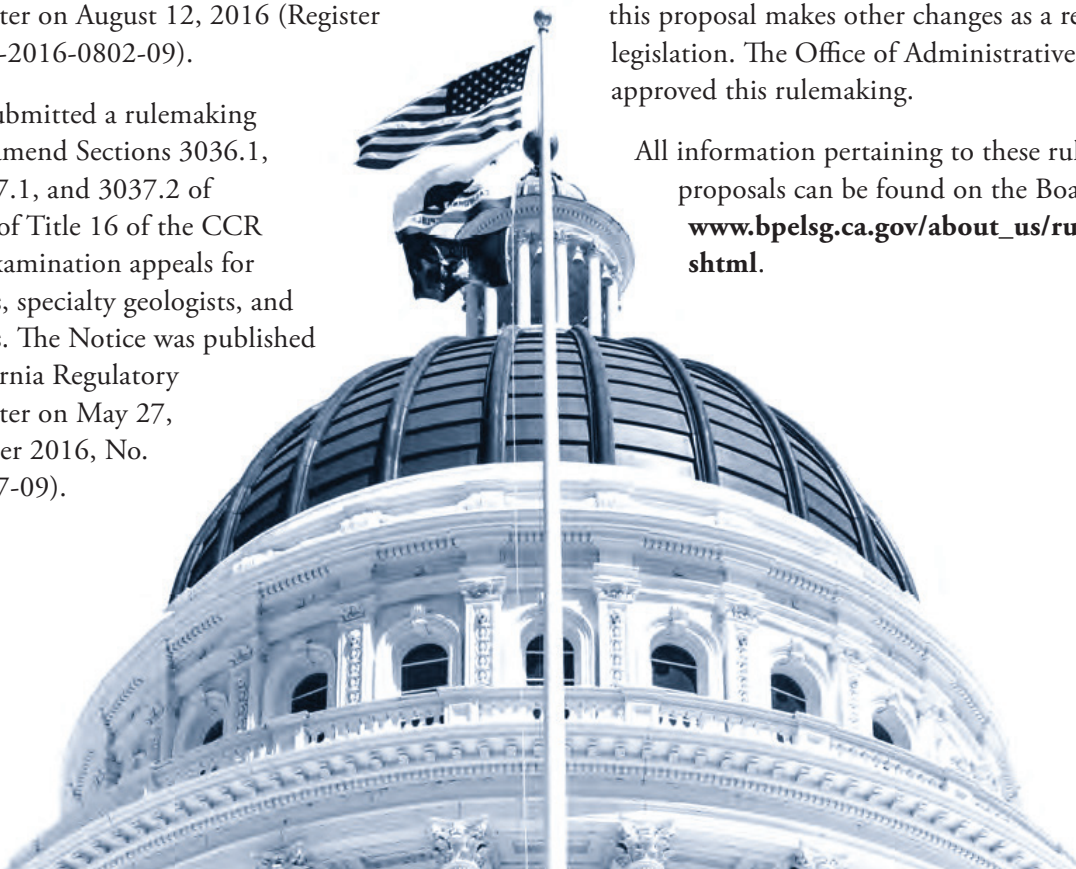
The Board submitted a rulemaking proposal to amend Sections 3036.1, 3036.2, 3037.1, and 3037.2 of Division 29 of Title 16 of the CCR relating to examination appeals for geophysicists, specialty geologists, and geophysicists. The Notice was published in the California Regulatory Notice Register on May 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 Office of Administrative Law approved this rulemaking.

All information pertaining to these rulemaking proposals can be found on the Board's website, www.bpelsg.ca.gov/about_us/rulemaking.shtml.



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 a list of individuals who have departed between October and December 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	Years of Service
Engineer		
Joseph W. Clancy	M 2911	68
Vincent A. Ditomaso	E 5390	60
Richard Louis Hack	M 33231	11
Ivan Peter Sturman	CS 2584	38
Marvin J. Wolf	C 9169	62
Land Surveyor		
Thomas Michael Wulfert	L 4342	40
Multiple Licenses		
Ivan F. Gennis	C 8694 / L 3144	63
David L. Messinger	C 9270 / S 809	62

Contact Us

California Board for Professional Engineers, Land Surveyors, and Geologists

2535 Capitol Oaks Drive, Suite #300, Sacramento, CA 95833

ADMINISTRATION		
Executive Officer	Ric Moore	(916) 263-2222
Assistant Executive Officer	Nancy Eissler	(916) 263-2222
Administration Supervisor	Jeff Alameida	(916) 263-2222
ENFORCEMENT AND COMPLAINTS		(916) 263-2284
FINGERPRINTING		(916) 572-7097
LICENSURE AND CERTIFICATION QUALIFICATIONS OR APPLICATIONS		
EIT(FE), LSIT(FS), GIT(FG) Certifications		(916) 263-2193
PG/PGp All Geologists and Geophysicists		(916) 263-2193
LICENSE RENEWAL	Vicki Kereszt	(916) 263-2268
OUTREACH	Brooke Phayer	(916) 263-2239
SENIOR REGISTRARS (FOR PROFESSIONAL LICENSES)		
Engineers (Civil, Structural, and Geotechnical)	Susan Christ, PE	(916) 263-2247
Engineers (Other Than Civil)	Michael Donelson, PE	(916) 572-2248
Geologists and Geophysicists	Laurie Racca, PG	(916) 263-2406
Land Surveyors	Dallas Sweeney, PLS	(916) 263-2271
WEBMASTER	Celina Calderone	(916) 263-2230

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 Dallas Sweeney, 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 or (916) 263-2239.



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Board Calendar

APRIL

4/4–25: CA Civil: Seismic Principles Exam and Engineering Surveying Exam

4/18: CA PLS Exam

4/20–21: Board Meeting

4/21: NCEES PE Exams
– Agricultural and Biological
– Chemical
– Civil
– Electrical
– Industrial
– Mechanical

4/21–22: Structural 16-Hour Exam

MAY

5/29: Memorial Day–
Board Office Closed

JUNE

6/1–2: Board Meeting

Continuous Testing Exams:

NCEES PS, FE/FS, & CA Geotechnical Engineer

SPRING 2017

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/pages/The-Board-for-Professional-Engineers-Land-Surveyors-and-Geologists/107020752801578

 **Twitter** - twitter.com/CA_Engineers

STATE OF CALIFORNIA

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