

BOARD OF PROFESSIONAL ENGINEERS, ARCHITECTS,
SURVEYORS AND LANDSCAPE ARCHITECTS
Professional and Vocational Licensing Division
Department of Commerce and Consumer Affairs
State of Hawaii

MINUTES OF MEETING

The agenda for this meeting was filed with the Office of the Lieutenant Governor, as required by Section 92-7(b), Hawaii Revised Statutes.

Date: Thursday, July 14, 2016

Time: 9:00 a.m.

Place: King Kalakaua Conference Room
King Kalakaua Building
335 Merchant Street, 1st Floor
Honolulu, Hawaii 96813

Present: Joel Kurokawa, Chairperson, Landscape Architect Member
Joyce Noe, Vice Chairperson, Architect Member
Ron Iwamoto, Secretary, Structural Engineer Member
Demetrio Constantino, Public Member
Alan Inaba, Land Surveyor Member
Kevin Katayama, Mechanical Engineer Member
Ken Ota, Public Member
Clayton Pang, Electrical Engineer Member
Richard Suzuki, Civil Engineer Member
Marc Ventura, Architect Member
Daniel Jacob, Esq., Deputy Attorney General
James Kobashigawa, Executive Officer
Sandra Matsushima, Executive Officer
Terry Akasaka-Toyama, Secretary

Excused: Benedict Lee, Landscape Architect Member

Guests: Allyn Lee, City & County of Honolulu, Dept. of Design & Construction
Valentino Dela Cruz, applicant, City & County of Honolulu,
Dept. of Design & Construction

Call to Order: There being a quorum present, the meeting was called to order at 9:03 a.m. by Chair Kurokawa.

Agenda: Additions and Revisions: It was moved by Mr. Ventura, seconded by Mr. Inaba, and unanimously carried to revise the agenda as follows:

Chapter 91, HRS, Adjudicatory Matters; In the Matter of the Architect's License of Val A. Yanagihara will be deferred to next month's meeting.

The following agenda item was moved as the next order of business:

New Business:

e. Appearance of Valentino Dela Cruz

Mr. Dela Cruz appeared before the Board to clarify his years of supervised experience so that he may be approved to sit for the P.E. exam in mechanical engineering. Mr. Dela Cruz's application was deferred at a prior meeting as his supervisor is not in the same discipline that he is applying for.

Mr. Dela Cruz explained that from 1982-2004 he worked in Saudi Arabia as a mechanical engineer and it would be difficult to locate these supervisors and most were not licensed.

Also present to provide testimony on behalf of Mr. Dela Cruz was Mr. Allyn Lee, supervisor to Mr. Dela Cruz at the Energy Conservation and Indoor Electrical Branch, Mechanical/Electrical Division, Department of Design and Construction, City and County of Honolulu. Mr. Lee is a licensed electrical engineer, but because of a vacancy for the mechanical engineer position of the Energy Conservation and Indoor Electrical Branch, Mr. Lee is currently the supervisor for both the mechanical and electrical divisions. The Board understands the working situation, but explained to Mr. Lee that he cannot sign off on mechanical engineering work as that would be a violation.

Executive Session:

At 9:16 a.m., it was moved by Mr. Suzuki, seconded by Mr. Inaba, and unanimously carried to move into executive session pursuant to HRS §92-5 to consider and evaluate personal information relating to individuals applying for professional or vocational licenses cited in section HRS §26-9 or both, and to consult with the board's attorney on questions and issues pertaining to the board's powers, duties, privileges, immunities, and liabilities, as provided in HRS §92-5(a)(1) and (4).

Guests were excused from the meeting room.

At 9:26 a.m., it was moved by Mr. Katayama, seconded by Mr. Constantino, and unanimously carried to move out of executive session.

Guests reentered the meeting room.

Mr. Suzuki explained to Mr. Dela Cruz that he needs to have his experience documented by a supervisor who is licensed in the same discipline that he is applying for.

Mr. Dela Cruz indicated that he also had licensed supervisors in the Philippines and asked if that would qualify to which the Board replied that it would.

By consensus of the Board, Mr. Dela Cruz's application will be deferred again to allow him time to gather documentation from his supervisor(s) in the Philippines.

At 9:35 a.m., the guests were excused from the meeting.

Approval of
Minutes:

It was moved by Mr. Suzuki, seconded by Mr. Constantino, and unanimously carried to approve the June 9, 2016 Board meeting minutes as distributed.

Applications:

a. Ratifications

None.

b. Professional Engineer Committee Recommendations

Mr. Suzuki presented the PROFESSIONAL ENGINEER COMMITTEE REPORT and recommended action as follows:

APPROVE CIVIL ENGINEER BY ENDORSEMENT

- BALDWIN, Matthew
- CHANG, Jennifer
- CORDERO, Christopher
- JACOBS, Charles
- KOCH, Joshua
- LEWIS, Brian
- NAGATA, Steven
- STAHLLECKER, James
- STANFORTH, Michael
- VANDENHEUVEL, Kathryn

APPROVE ELECTRICAL ENGINEER BY ENDORSEMENT

- ANDERSON, Kenamrcus
- CROSSLAND, Bret
- CURAMEN, Joseph
- DEITERS, Nathan
- KRUCKEWITT, Thomas
- LANDON, Halleh
- LITRELL, Kevin
- MILLER, Jeffrey
- MORRIS, Jeffrey

APPROVE MECHANICAL ENGINEER BY ENDORSEMENT

- ARDEBILI, Ali
- GOODMAN, Michael
- KARNATZ, Kurt
- KING, H. Wayne III
- MILLICAN, Gabriel
- SCHOENECKER, Anthony

APPROVE STRUCTURAL ENGINEER BY ENDORSEMENT

- ANASTASIO, Steven
- BEEGLES, Kirby
- BURKETT, Jason
- DENSLEY, Jeffrey
- KINSLEY, William
- KLAPHEKE, Gregory
- LEUNG, Kar Ban
- MAR, David
- XIAO, Qiang

APPROVE ENGINEER BY EXAM (PE)

- BIACAN, Swinerton (CE)
- CARLSON, Stephen (CE)
- CASTELL, Christopher (CE)
- CASWELL, Tyler (CE)
- CHAN, Leon (SE)
- COOK, Amy (CE)
- FERNANDO, Fleance (EE)
- GATDULA, Kathleen (EE)
- HUR, Brian (ME)

- IMADA, Eric (CE)
- JEHN, Ian (SE)
- KALHOEFER, Kurt (EE)
- KIKUYAMA, Alex (SE)
- KODAMA, Colin (SE)
- KOMO, Bryant (EE)
- KUIOKA, Brandt (CE)
- LEONARDO, Bryce (CE)
- LIANG, Wilson (ME)
- LOESWICK, Jonathon (CE)
- MEDRANO, Anthony (CE)
- NAMEKAR, Shailesh (CE)
- OLAES, Marisol (CE)
- ONO, Derek (SE)
- OURA, Kelli Ann (SE)
- OZAKI-TRAIN, Clay (EE)
- SALVADOR, Amy (CE)
- SORENSEN, Michelle (CE)
- SUMITOMO, Jillian (SE)
- TOSHI, Pamela (EE)
- UEJO, Brandon (CE)
- WANG, Xudong (ME)

APPROVE ENGINEER BY EXAM (FE)

- BIACAN, Swinerton
- FERNANDO, Fleance
- SORENSEN, Michelle
- WANG, Zhaohui

DEFER CIVIL ENGINEER BY ENDORSEMENT

- LEFFERT, Donald
- RUSSELL, James
- SMITH, Gary

DEFER ELECTRICAL ENGINEER BY ENDORSEMENT

- YOON, John

DEFER MECHANICAL ENGINEER BY ENDORSEMENT

- HOLDEMAN, Scott
- QUINN, Dion

DEFER ENGINEER BY EXAM (PE)

- ANTONIO, Allyson (ME)
- DELA CRUZ, Valentino (ME)
- KIHARA, Kevin (CE)
- KUZARO, Jennifer (CE)
- LI, Enli (CE)
- SUZUKI, Kyle (CE)
- TABUSO, Brian (CE)

It was moved by Mr. Pang, seconded by Mr. Constantino, and unanimously carried to accept the PROFESSIONAL ENGINEER COMMITTEE REPORT.

c. Professional Architect Committee Recommendations

Ms. Noe presented the PROFESSIONAL ARCHITECT COMMITTEE REPORT and recommended action as follows:

APPROVE ARCHITECT BY ENDORSEMENT

- ALLRED, Douglas
- BALOURDAS, Arthur
- CHAVIRA, Richard
- FILLERUP, James
- LEE, Alan
- MacGILLIVRAY, Troyer
- MONTROYA, Shawn
- OTTERSON, Gerald
- PANTUSO, Rebecca
- RIPPON, E. Fay
- ROGERS, George
- RUMSEY, John
- RYAN, Peter
- STRAUS, Stewart
- WATFORD, Mark

APPROVE ARCHITECT BY EXAM

- KIMURA, Ai
- ORBE-SMITH, Jason

It was moved by Mr. Inaba, seconded by Mr. Pang, and unanimously carried to accept the PROFESSIONAL ARCHITECT COMMITTEE REPORT.

d. Professional Land Surveyor Committee Recommendations

Mr. Inaba presented the PROFESSIONAL LAND SURVEYOR COMMITTEE REPORT and recommended action as follows:

APPROVE LAND SURVEYOR BY ENDORSEMENT

- STROM, Earl (state-constructed exam)

APPROVE LAND SURVEYOR BY EXAM

- FUJITANI, Jon (FS)
- TACDERAN, Julius (FS, PS and state-constructed exam)

DEFER LAND SURVEYOR BY EXAM

- GUIEB, Benjamin (FS, PS and state-constructed exam)

It was moved by Mr. Suzuki, seconded by Mr. Katayama, and unanimously carried to accept the PROFESSIONAL LAND SURVEYOR COMMITTEE REPORT.

e. Professional Landscape Architect Committee Recommendations

None.

Old Business:

a. Rules Committee Report

The Committee was informed that due to the many changes affecting the whole Chapter, it is taking time to consolidate and subsequently print the proposed amendments.

The Committee expressed their concerns about the length of time it is taking to process the proposed amendments. Since there are some sections which still do not have consensus, the Committee decided to defer on those sections and only pursue those sections in which there is clear consensus.

Moreover, the Committee discussed future amendments needed to address pending NCARB changes of the terminology from the Intern Development Program ("IDP") to Architectural Experience Program ("AXP").

It was moved by Mr. Ventura, seconded by Mr. Iwamoto, and unanimously carried to approve the June 9, 2016 Rules Committee Meeting minutes.

New Business:
(continued)

a. Professional Engineers Report

- NCEES Annual Meeting

This meeting is scheduled for August 24-27, 2016 in Indianapolis, IN. Mr. Suzuki, Mr. Katayama, and Mr. Inaba will be the Board's delegates.

- Licensure Exchange

- ✓ The Technology Task Force was formed this year to evaluate emerging technologies and their effect on the engineering and surveying professions and to provide guidelines for member boards and professionals using these technologies. The NCEES *Model Law* and *Model Rules* must be able to accommodate these emerging technologies and set an example to avoid obstacles in state laws to using relevant technology. There is also the potential for practice noncompliance by firms and individuals if laws and statutes do not adequately define "responsible charge" as it relates to these emerging technologies.

The task force focused on three areas: electronic seals and signatures, building information modeling ("BIM"), and remote sensing technologies. One important facet related to all three is the issue of responsible charge and how engineers and surveyors are held accountable for their work when such technologies are used.

The task force explored how member boards are currently addressing manual and electronic seals and signatures, using recent guidelines from the North Carolina as a model. Two primary alternatives were identified: (1) physical placement of a seal and a handwritten signature in permanent ink and (2) electronic or digital placement of a seal and a handwritten, electronic, or digital signature. A minimal change to the Model Law and Model Rules was recommended by the task force to accommodate the

use of electronic seals and signatures, although there was a concern that these should have traceability to the professional and not allow false application.

BIM and the related integrated project delivery ("IPD") present a much greater challenge to engineers and surveyors as well as other professionals as they are already prevalent in the design and construction industry. For these, the shared use of a common computer model can increase efficiencies and constructability and reduce the potential for issues such as interferences.

Design professionals' use of computer-based tools such as BIM has changed work products and accordingly has changed how professionals' signatures and seals are applied. Thus the task force recommended that NCEES work with NCARB and CLARB to identify current practices as this affects architects and landscape architects too. The task force also recommended that an NCEES delegate be appointed to formally participate in the National Institute of Building Sciences ("NIBS") development of a national BIM standard for the U.S. More will be discussed at a workshop during the upcoming annual meeting featuring experienced BIM authorities including an engineer, architect, an attorney, and a representative from the NIBS BIM standards group.

Similar to BIM, remote sensing technologies are developing rapidly and affect both engineering and surveying. Technologies include light detection and ranging ("LIDAR"), unmanned aircraft systems ("UAS"), and photogrammetry. These technologies are used to establish boundaries of real property, easements, or rights-of-way, measurements provided to a specified accuracy; topographic definition; and remote gathering of data. The task force will present a position statement at the annual meeting regarding the use of remote sensing technologies as they relate to engineering and surveying.

- ✓ The Committee on Member Board Administrators ("MBAs") was charged to develop a guide for boards to assist in mobility and to promote the adoption of the *Model Law* for mobility. In researching the differences in the requirements for initial licensure amongst the boards, it quickly became clear that there are many variations that need to be addressed to ease mobility.

The Committee also found that the word mobility meant different things to different people. In the coming year, they will be working on a white paper to help define mobility and summarize these ideas. Then they will develop a scorecard model to help track their progress and ultimately incorporate a long-term strategic communication plan for mobility.

- ✓ Registration appointments with Pearson Vue test centers opened June 20, 2016 for the first administration of the Principles and Practice of Surveying ("PS") exam via computer-based testing ("CBT") beginning October 3, 2016.

The exam format will be linear-on-the-fly ("LOFT") testing in which examinees each have a unique set of exam questions that are similar in difficulty. The same format is used for the Fundamentals of Engineering ("FE") and Fundamentals of Surveying ("FS") exams. The exam contains 100 questions and the actual exam lasts 6 hours. New specifications have been posted to NCEES's website, but the exam topics have not changed since April 2013.

The Principles and Practice of Engineering ("PE") will continue to be offered twice a year via paper and pencil exams as NCEES continues its move to change the 25 PE exams to CBT.

On a separate note, Mr. Kobashigawa reported that NCEES is again extending an invitation to have a member of the NCEES board or senior staff attend a board meeting to enhance communication and provide greater awareness about the range of NCEES's services.

b. Architects Report

- Report on NCARB Annual Meeting

Ms. Noe, Mr. Kobashigawa, and Mr. Ventura attended this meeting as the Board's delegates. Highlights from Mr. Ventura's report are as follow:

- ✓ Some figures from the publication "NCARB by the Numbers":
 - * 40,917 U.S. architects hold an NCARB Certificate for national reciprocity.
 - * 41,524 professionals are actively working toward licensure.
 - * 38% of IDP completions are by women.
 - * 37% of ARE completions are also by women.
 - * 34% of newly licensed architects are women.
- ✓ Recipients of NCARB's 2015 Award include Mississippi State University – Expanding the Agency of Architects, Philadelphia University – Interdisciplinary Design and Experimental Architecture Studio on Textile Material Strategies, and the University of Florida – Expanding Fields: Materiality + Making to Inform Design Education and Practice.
- ✓ Delegates approved resolutions to provide emeritus status for retired architects and added new provisions to registration requirements for military personnel.
- ✓ A resolution proposed by Region 6 (Western Zone) failed to pass. The resolution proposed programmatic changes to IDP that could only be changed by an absolute majority vote of NCARB Member Boards, as opposed to allowing the Board of Directors to make such changes. The resolution failed as delegates felt it would potentially take too much time to get decisions made and changes implemented.

- Launch of Architectural Experience Program ("AXP")

The Intern Development Program ("IDP") was recently renamed as the AXP. The program's 17 experience categories will be realigned into six experience areas that more accurately reflect the general areas of practice identified by the *2012 NCARB practice Analysis of Architecture*. The new areas also correspond to the new A.R.E. 5.0 divisions making the path to licensure simpler to understand. Candidates need to document experience in practice management, project management, programming and analysis, project planning and design, project development and documentation, and construction and evaluation. The newly defined areas broaden the scope of the program reflecting how the marketplace, education, and technology impact how experience is gained.

- BOD Brief (June 2016)

The new Mutual Recognition Arrangement between the U.S., Australia, and New Zealand needs to be signed by at least 28 jurisdictions by December 31, 2016.

- CEO Update (May 2016)

This was circulated to the members for their information.

- Architect Licensing Advisors Community

NCARB has created an advisory committee composed of staff, member board members and member board executives and a mechanism for emerging professionals to ask questions and receive feedback from the advisors.

- Fast Facts (May 2016)

✓ As part of a continued effort to make the path to architectural licensure more inclusive, design professionals with substantial experience working for an architect will have an opportunity to satisfy the AXP requirements through an online portfolio called the AXP e-Portfolio, which is essentially the same thing as the Broadly Experienced Intern ("BEI") Program, and the

IDP Portfolio Documentation Method. The AXP e-Portfolio is designed solely for professionals who put licensure on hold due to career, personal, or economic reasons and is only available to professionals who can document two years of experience that is older than five years.

Applicants submit documentation of their work experience to a current architect supervisor or mentor to demonstrate their knowledge and competence of performing AXP's tasks. The supervisor or mentor then reviews the work and attests whether it satisfies the experience requirement per the *AXP Guidelines*. Random audits of e-portfolios are also performed.

- ✓ With the passage of Resolution 2016-02: Revision of the Requirements for Certification of Foreign Architects, the Broadly Experienced Foreign Architect ("BEFA") Program was changed to the "Alternative to Certification for Foreign Architects". The new requirements for certification of foreign architects include holding a recognized education credential in an architecture program that leads to licensure/credential in a foreign country, must be credentialed in a foreign country allowing unlimited practice that has a formal record-keeping mechanism for disciplinary actions in the practice of architecture, must complete the requirements of the AXP and must pass the Architect Registration Examination ("ARE").
- Mutual Recognition Arrangement with Australia and New Zealand

A new Mutual Recognition Arrangement was signed by the leaders of NCARB, the Architects Accreditation Council of Australia (AACA), and the New Zealand Registered Architects Board (NZRAB). The terms of this Arrangement follow the lines of the current arrangement with Canada and are strongly founded on accredited education, structured experience, and comprehensive examination. At least 28 jurisdictions will need to sign the Arrangement to make it effective.

After discussion, by consensus of the Board, it was agreed that the Board cannot be a signatory to the Mutual Recognition Arrangement with Australia and New Zealand as the Board requires a U.S. social security number and being a U.S. citizen, U.S. national or an alien authorized to work in the U.S. status.

On a separate note, Mr. Kobashigawa reported that NCARB's 2016 Member Board Chairs/Member Board Executives Summit is scheduled for October 28-29, 2016 in Columbus, OH. The purpose of this summit is to conduct conversations between leaders of the Member Boards and NCARB regarding future strategies, collaboration opportunities, and emerging issues. Topics under consideration include (1) Challenges created by Board structure, ranging from single discipline to multi-disciplinary to advisory; (2) Tension points with other professions; and (3) NCARB's voice and role regarding the "education continuum".

Mr. Kobashigawa also indicated that the Board should meet with AIA regarding the upcoming changes to ARE 5.0. so that they can be informed that anyone taking the 4.0 version currently will need to contact NCARB before November 2016 if they want to continue taking the 4.0 version. If NCARB is not informed prior to that, candidates will be moved to the 5.0 version automatically.

c. Surveyors Report

- Licensure Exchange

The NCEES Surveying Education Award is an annual award that recognizes surveying programs that best reflect the organization's mission to advance licensure for engineers and surveyors in order to safeguard the health, safety, and welfare of the public. NCEES awarded \$10,000 to ten qualifying programs to assist with each program's continued efforts to promote the importance and value of licensure. The ten programs that received \$10,000 were:

Ferris State University
College of Engineering Technology
Surveying Engineering Program

Michigan Technology University
School of Technology
Surveying Engineering Program

Nicholls State University
Department of Applied Sciences
Geomatics Program
Oregon Institute of Technology
College of Engineering, Technology, and Management
Geomatics Program

Parkland College
Department of Engineering Science and Technologies
Construction Design and Management: Land Surveying
Program

Southeast Technical Institute
Department of Engineering Technology
Land Surveying Science Technology Program

The University of Akron
College of Applied Science and Technology
Surveying and Mapping Program

Troy University
College of Arts and Sciences
Surveying and Geomatics Sciences Program

University of Florida
School of Forest Resources and Conservation
Geomatics Program

University of Maine
College of Engineering
Surveying Engineering Technology Program

d. Landscape Architects Report

- Member Board E-News (June 2016)
 - ✓ CLARB's 2016 Annual Meeting is scheduled for September 22-24, 2016 in Philadelphia, PA where attendees will learn more about CLARB's three-pronged approach, *Defend, Adapt, Innovate*, which will

help the community effectively partner to not only survive, but to thrive in today's changing environment.

Information on the 2016 Task Analysis Results will also be shared. This survey was regarding the practice of landscape architecture across North America and provided a glimpse into the practice globally. As a result, there will be discussion on the how the L.A.R.E. will change as well as possible implications for regulation.

- ✓ At this year's Regulatory Law Seminar, the Federation of Associations of Regulatory Boards ("FARB") will bring together experts and attorneys from across the country to discuss the latest trends, cases, and impacts to those representing regulatory boards and developing administrative law.

This seminar is designed for assistant attorney generals and board legal counsel focusing on the top issues affecting regulatory boards.

- CLARB Webcast – Advocating for Common Sense Regulation

As a Governing Member of FARB, CLARB has been collaborating with regulatory association peers (architects, engineers, medical boards, appraisers, etc.) to concentrate a broader range of talent and influence in support of common-sense regulation to protect the public.

This action stems from Supreme Court case with the Federal Trade Commission vs. the North Carolina State Board of Dental Examiners. DAG Jacob reported that for Hawaii, a more active supervision could be installed, but the Boards are functioning well right now.

- Region 5 Virtual Meeting on July 5, 2016

Mr. Kurokawa will be participating in this virtual meeting. During the webcast, members will share and discuss hot topics that are happening in each jurisdiction, hear an update on CLARB's finances and learn about CLARB's plan for FY 2017, review key information about the upcoming elections and annual meeting and much more.

- Slate of Candidates for the 2017 CLARB Elections

The listing of candidates was circulated to the members for their information. Mr. Kurokawa will be submitting the board's ballot.

Correspondence: a. E-mail from Department of Land and Natural Resources

Ms. Kristen Akamine of the Department of Land and Natural Resources, Engineering Division – Flood Control/Dam Safety Section, requested clarification from the Board as to who is authorized to fill out a FEMA Elevation Certificate ("EC"). Although the form indicates land surveyors, engineers or architects can sign the form, they wanted this clarification to know if it would change how post-construction EC's are filled out so they can give out the proper information when doing training on the EC form.

After discussion, by consensus of the Board, it was agreed that land surveyors, engineers and architects would all be qualified to fill out the form, but certain aspects of the survey will need to be performed by an architect, engineer or surveyor, as appropriate.

b. E-mail from Don Kimball

Mr. Kimball stated he had been asked to stamp drawings for a shade structure at Kahuku Elementary School that was designed by a manufacturer in Florida. He inquired whether it would be acceptable to review the drawings, do some calculations, design the foundations and stamp it? Or would it be necessary for him to engineer it completely and draw it in his office?

By consensus of the Board, as a structural engineer, Mr. Kimball may perform appropriate review of drawings, appropriate calculations, check for code compliance, and design the foundation for the above project.

Executive
Officer's Report:

a. DCCA Disciplinary Actions

Disciplinary actions through June 2016 were circulated to the members for their information.

b. Results of April 2016 Structural Engineering Exam

	<u>Lateral Forces</u>	<u>Vertical Forces</u>
Number of Candidates:	14	11
Number Passed:	5	5

Next Meeting: Thursday, August 11, 2016
9:00 a.m.
King Kalakaua Conference Room
King Kalakaua Building
335 Merchant Street, 1st Floor
Honolulu, Hawaii 96813

Adjournment: The meeting was adjourned at 11:26 a.m.

Taken and recorded by:

/s/ Terry Akasaka-Toyama

Terry Akasaka-Toyama
Secretary

Reviewed and approved by:

/s/ James Kobashigawa

James Kobashigawa
Executive Officer

8/2/16

[X] Minutes approved as is.

[] Minutes approved with changes; see minutes _____.