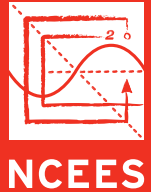


Licensure EXCHANGE

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PATRICK TAMI, P.L.S.
NCEES PRESIDENT



FROM THE PRESIDENT

Ethics are key part of mission to safeguard public

WHY DOES UNETHICAL BEHAVIOR TAKE PLACE?

Is it really only bad people who act unethically, or is it the situation that causes individuals to behave unethically? What happens when a licensee has to make a decision and there are conflicting rules or guidelines? There are so many questions surrounding the reasons people act the way they do, and there are also so many questions about enforcement of ethical issues at each of our boards.

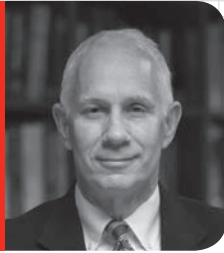
Past ethics presentations at the NCEES annual meeting have taught that the greatest predictor of unethical behavior is a person's emphasis on self-gain—that is, his or her tendency to use interpersonal relationships opportunistically and to have less concern about consequences for others. Unethical behavior also increases when employees feel that their actions will not harm potential victims and that their peers will not condemn their actions.

When we look at some of the biggest recent engineering disasters—such as the 1981 Hyatt Regency Hotel walkway collapse in Kansas City; the 1984 Union Carbide gas release in Bhopal, India; the 1986 space shuttle *Challenger* disaster; and the 2005 New Orleans levee breaches after Hurricane Katrina—we can see where ethics played a role in the harm caused.

The context within which we are challenged to act ethically really matters. Laboratory studies show that people are more likely to accept others' unethical behavior when ethical degradation occurs slowly rather than in one abrupt shift. This is referred to as the slippery-slope effect. Studies also demonstrate that at least part of this effect can be attributed to implicit biases that result in a failure to notice ethical erosion when it occurs slowly.

Another study indicates that ethical decisions are personal and temporal in character to accommodate values, beliefs, needs, perceptions, the special characteristics of the situation, and the personal pressures prevailing at a particular place and time. When we look at why someone made a poor ethical decision, we need to take into account moral intensity, the person's perception of social pressure and the harm the decision will have on others, and the person's belief in being able to control his or her own life through certain actions. We also need to consider the culture of the organization, those who have influence in a work group—including peers, managers, coworkers, and subordinates—and the conditions in an organization that limit or permit ethical or unethical behavior.

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JERRY CARTER
NCEES CHIEF EXECUTIVE OFFICER

Coming to the end of an unexpected career path

I CANNOT BELIEVE THAT I AM WRITING MY LAST ARTICLE for this organization's newsletter. I think writing this has been almost as difficult as announcing my retirement, which will take place at the end of this year.

First, let me say that I have two distinct emotions about my impending retirement. I am happy, and then I am very happy! But I am also nostalgic, so please bear with me as I relive some history.

Making a career change

In 1984, I was ready for a career change and was attempting to secure other employment after working for the North Carolina Department of Corrections for 10 years. I responded to numerous ads and provided my resumé to many companies for what seemed to be an endless period. Then one day, I received a call from a firm where I had responded to a blind ad for a position as the violations administrator. When I received a call from the office manager concerning an interview, she said that she was with the North Carolina Board of Registration for Professional Engineers and Land Surveyors. I distinctly remember immediately asking, "Ma'am, can you tell me the name of your firm again?" My first reaction was to wonder what in the heck the Board of Registration for Professional Engineers and Land Surveyors was and why they would be interested in someone without a science or math degree. I decided the better part of valor was interviewing for the position—which I did—and in 1984, I accepted the position of violations administrator for the North Carolina board.

Learning about member board issues

As I worked to support the activities of the North Carolina board, I benefited from developing a close relationship with the executive director, Montgomery T. Speir, who became my mentor and friend. Early in my career, Mr. Speir remarked that he would involve me in any aspects of the organization that interested me, and I quickly made it known that I was interested in everything. For several years, Mr. Speir included

me in all activities, ranging from attending legislative hearings to participating in settlement conferences with our legal counsel to assisting with the administration of the NCEES exams. The thing that was most important to me during this period was that Mr. Speir allowed me to express my opinions on issues, allowed me to make mistakes, and then helped me to understand how a different approach might have been better.

Following Mr. Speir's retirement in 1992 and a national search, I was honored that the North Carolina board offered me the position of executive director. I will always be grateful to the North Carolina board for affording me the opportunity to succeed such a wonderful leader as M.T. Speir.

Moving to national initiatives

Through my work with the North Carolina board, I became involved in NCEES activities. Eventually, I was appointed to serve on various committees, including chairing the Member Board Administrators Committee. Through my work with the NCEES leadership and management team, I was offered the opportunity to accept a position with NCEES in 2001.

I began my NCEES career with the title of director of corporate affairs (the title was changed to associate executive director a couple of years later). My responsibilities included supporting the NCEES board of directors and the executive director and, to my surprise, serving as the human resources officer for NCEES. I readily admit that I have had some tough assignments during my professional career, but heading up the HR operations for NCEES was the most difficult. There were many days when I came to work with a smile on my face and a bounce in my step only to have that mood quickly altered when an employee approached my office and asked if he or she could shut the door to discuss an HR issue. Fortunately, there were not many of these instances, but my life greatly improved when the decision was made to hire a full-time HR professional and Donna Moss assumed that position.



NCEES Chief Executive Officer Jerry Carter joins the discussion at a 2017 board of directors meeting. As CEO, Carter serves as secretary for the board of directors.

In 2007, the NCEES board elected to make a management change, and I was appointed interim executive director. During the 2007 annual meeting, the board opted to forgo a national search, and I was appointed executive director (a title that changed to chief executive officer a few years later). Again, I was absolutely amazed and thrilled that the NCEES board had the confidence in my abilities to allow me to serve as the chief of staff for NCEES and to oversee the day-to-day operations of the organization. And I must say, I was originally overwhelmed by the complexity of serving the eight members of the NCEES board of directors, the members of the 70 member boards that constitute NCEES, the hundreds of volunteers who develop and maintain the exams, and the more than 70 NCEES staff.

Initially, very difficult decisions had to be made to address concerns of our member boards and customer base. The first was to close an operation that had been established in Miami to conduct credentials evaluations, which required the displacement of eight employees. That service was relocated to the facility in Clemson, which required the recruitment and training of new staff to continue offering this service to member boards. Also, internal NCEES departments were realigned to provide a more distinct reporting structure, and the management team was redefined to make the areas of responsibility clearer.

And the changes have continued. Every service that NCEES offers has evolved during my time at NCEES.

In recent years, we have greatly enhanced the security associated with the administration of our exams. A first and huge step was to begin requiring candidates to register directly with NCEES for an exam. Prior to instituting this requirement in 2010, NCEES had no knowledge or history of who was taking the exams and merely delivered the number and type of exam booklets requested by each member board. Now, NCEES has a history of all candidates who have taken any NCEES exam since 2010, a greater ability to predict candidate behavior, and contact details to stay in communication with candidates to help them remain on track throughout the licensure process.

The integrated customer management system (E3), completed in 2016, brought new services to NCEES. Boards can now use the Record for initial licensure applications. Eleven boards currently use the Record for this purpose. We also introduced a continuing professional competency (CPC) tracking service as part of E3. All licensed engineers and surveyors can use this free service to document their CPC coursework and track it against member board requirements. Member boards can then access this information by logging into the system. Both the Records program and the CPC tracking system are important services for facilitating licensure mobility.

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Nominee for president-elect and incoming vice presidents discuss vision for NCEES

NCEES WILL ELECT A NEW PRESIDENT-elect at its 2018 annual meeting, which will be held August 15–18. Nominees for president-elect rotate among the four NCEES geographical zones. The 2018–19 president-elect will be from the Central Zone; the zone has nominated Dean Ringle, P.E., P.S.

Two new vice presidents will join the 2018–19 board of directors, which will be installed at the banquet on August 17: Marlon Vogt, P.E., representing the Central Zone, and Brian Robertson, P.E., representing the Western Zone.

President-Elect Nominee

Dean Ringle, P.E., P.S., Ohio State Board of Registration for Professional Engineers and Surveyors



NCEES Experience: Committee on Member Board Administrators member (2016–17); Future of Surveying Task Force member (2014–16)

Ringle has served on the Ohio State Board of Registration for Professional Engineers and Surveyors from 1996 to 2005 and 2013 to present. He has served as board chair, vice chair, and secretary. From 1996 to 2018, he served on the development committee for the board's state-specific surveying exam.

Ringle is currently executive director of the County Engineers Association of Ohio,

representing Ohio's 88 county engineers and their staff. Prior to this appointment, he served 17 years as the elected Franklin County engineer in Ohio's largest county.

Why do you want to serve as NCEES president?

Teddy Roosevelt said, "Every man owes a part of his time and money to the business or industry in which he is engaged. No man has the moral right to withhold his support from an organization that is striving to improve conditions within his sphere." NCEES is that organization striving to improve conditions within our engineering and surveying professions. I have had the pleasure of serving in many state and national engineering and surveying organizations, and they all depend on professional licensure. NCEES sets the tone for advancing engineering and surveying licensure, and I am excited to be able to be a part of this leadership.

How has your past experience prepared you for this office?

Serving as chair, president, and delegate of other organizations has allowed me to see firsthand the importance of collaboration and unity in direction. If the leadership is not in sync, the members will also struggle. Having spirited debates can be healthy, but in the end, we must always come together to advance our initiatives.

What are the key issues that you want to focus on during your terms as president-elect and president?

My main goal as president-elect will be to assist the president the best that I can and to formulate where we will need to

go as an organization once my term as president starts. Being a professional engineer and a professional surveyor, I have interests in both and will strive to be active on committees and represent each profession. As president, selecting qualified leaders as chairs for committee assignments is crucial to help set our future path.

Promotion of the importance of engineering and surveying licensure and education within the state and national arenas need to be ongoing. Too many people who are not in our professions are looking to lessen the requirements and lower the standards for licensure and, in some cases, have considered eliminating licensure altogether. As we work to advance licensure for engineers and surveyors, we must also continue to hold fast to our purpose and directive to safeguard the health, safety, and welfare of the public.

Similarly, promoting our professions to the youth of our country is paramount. We cannot solely rely on non-engineers and non-surveyors to promote our professions in K–12 classrooms. It needs to be us! Let's plant the seeds and then continue to nurture them so that engineering and surveying are the top occupations germinating in students' minds.

What longer-term issues do you think will be important for NCEES to address in the future?

In addition to the above thoughts, we must always keep our professions relevant to society. Engineering and surveying are

grounded in longstanding principles and, at the same time, are continually changing with knowledge and technology. The relevancy of licensure must be constantly addressed. Education and examination requirements must be continually reviewed to make sure we are keeping pace with the advancements of our professions.

How did you get involved in volunteering with NCEES?

In 1988, well before I was a state board member, I first started serving as a subject-matter expert working on the NCEE (the predecessor to NCEES) surveying exams. I became fascinated with exam creation, the defensibility of exams, and the statistical analysis of psychometrics. Participating in those workshops over several years gave me an appreciation for the testing process of our national exams. I was able to share these experiences back in Ohio, where we now use the psychometric process for our state surveying module.

What advice would you offer member board members considering volunteering with NCEES?

There are so many areas of opportunity to serve, to learn, and to share your knowledge. Give one a try. You may find the return is worth more than the investment.

Incoming Central Zone Vice President

Marlon Vogt, P.E., Iowa Engineering and Land Surveying Examining Board



NCEES Experience: Committee on Examination Policy and Procedures member (2017–18, 2014–16); Committee on Examination Audit member (2012–14)

Vogt has been a member of the Iowa board since 2011. He is a project manager at Ulteig Engineers.

Why do you want to serve as Central Zone vice president?

During my service on the Iowa board, I have developed a strong respect for NCEES and my peers who serve on other state boards. With two years remaining in my Iowa appointment, serving as the Central Zone vice president provides a meaningful way for me to serve the organization.

How has your past experience prepared you for this office?

I have had many professional and personal leadership experiences during my career, and all have provided professional and personal growth. Each experience has also provided opportunities to contribute to organizations that I hold in high regard. I have chaired the Iowa board and led the governor-mandated review of our board rules. The rules review led to a successful, drama-free effort to change the Iowa code.

I have enjoyed and learned from attending a number of NCEES zone and national meetings, along with serving on two committees.

I believe the aggregate of these experiences has prepared me to effectively serve in this role in a way that will provide value to both the Central Zone and NCEES.

What are the key issues that you want to focus on as Central Zone vice president?

I hope to effectively support and encourage the various Central Zone boards and help keep them strong and influential. It will also be important to encourage increased alignment of rules and laws among the Central Zone boards. This will allow a sharp focus on the increasing challenges to

licensure, of which license mobility will be a key factor.

Other initiatives that I believe we can support include outreach on the value of professional licensure to engineering faculty and students, elementary- and high-school STEM students, and the general public.

What longer-term issues do you think will be important for NCEES to address in the future?

The immediate issue will be ensuring a smooth leadership transition following CEO Carter's retirement. The NCEES headquarters expansion or replacement will also be an important issue for the board of directors.

In the longer term, the ongoing challenges to professional licensure must be monitored and managed. The various changes to state licensing rules and the potential impact to licensure mobility will also be critical. It will be key for NCEES to provide a unified message that clarifies the distinction between occupational and professional licensing.

How did you get involved in volunteering with NCEES?

I simply raised my hand when NCEES encouraged serving on various committees.

What advice would you offer member board members considering volunteering with NCEES?

Raise your hand, do your best, and enjoy serving an outstanding organization. You will benefit both personally and professionally. You will also enjoy new friendships with those you meet and with whom you serve.

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OFFICER Q&A

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Incoming Western Zone Vice President

Brian Robertson, P.E.,
Colorado State Board of Licensure
for Architects, Professional Engineers,
and Professional Land Surveyors



*NCEES
Experience:
Committee on
Education chair
(2017–18),
member (2015–
17); Teller’s
Committee
member (2017)*

Robertson has been a member of the Colorado board since 2014. He is the chief electrical engineer and a principal at BG Buildingworks Inc.

Why do you want to serve as Western Zone vice president?

I have been drawn to organizational leadership positions throughout my career. These experiences have allowed me to develop the skills required to understand issues and challenges facing my club, company, or organization and then summarize them, evaluate potential solutions, and communicate those options to others. Once I attended my first annual meeting, I knew I wanted to serve my profession and this organization in any capacity that I could.

How has your past experience prepared you for this office?

I have served on the board of trustees for a small new church in Broomfield and the board of directors for the American Council of Engineering Companies of Colorado, and I am currently vice chair of the Colorado board. Additionally, I have served two separate board terms at my company, BG Buildingworks. Each

of these experiences has deepened my understanding of leadership, budgeting, forecasting, and compromise. All of them have prepared me for the challenges of leading the Western Zone and serving on the board of this Council.

What are the key issues that you want to focus on as Western Zone vice president?

I believe the issues facing the Western Zone these next two years are the same our entire Council faces: meeting challenges to professional licensure, promoting and facilitating licensure between jurisdictions, and encouraging engagement of new member board members. To that third item, while some states place a low priority on replacing termed-out board members, Colorado has been very successful in bringing new members in at the expiration of terms. This leads to a very small window to introduce new members to their new board responsibilities, to introduce them to NCEES and its many opportunities to become involved, and to groom those interested in future leadership positions while they are still eligible to participate.

What longer-term issues do you think will be important for NCEES to address in the future?

Issues that will be ongoing are challenges to professional licensure and facilitating comity between jurisdictions. I believe the Council can best serve the public by maintaining its excellent reputation in the rigor of licensing exams, promoting lively discussions around the level of preparation that new graduates are receiving from engineering education programs, and discussing the progressive engineering experience required for an initial license. As our industry continues to evolve to

digital deliverables, the Council will need to address recommendations for quickly evolving professional practices and the secure application of digital seals and signatures.

How did you get involved in volunteering with NCEES?

Once I realized this Council was where I wanted to grow and serve, I asked to be assigned to the Committee on Education, primarily because of some strongly held thoughts on the issue of additional education requirements for engineering licensure. I learned a lot in that committee assignment, and I was honored to be asked to chair that committee this past year. I also took every opportunity to get to know the Western Zone leadership and to participate as much as I could in zone meetings and in items discussed at each NCEES annual meeting. In doing so, I met several folks who encouraged me to become even more involved and to run for this office.

What advice would you offer member board members considering volunteering with NCEES?

Do it. Do it now. If you are attending the annual meeting for the first time, pay attention to the committee and task force reports and see which ones seem most interesting to you. Then volunteer for them next year (assignments have already been made for 2018–19). Meet the board members in other jurisdictions in your zone, especially the current zone leaders. Get involved as a technical resource for an exam development committee. Ask questions, be flexible, and be patient. I believe in the purpose of the state boards and this Council that supports them, and I am happy to share whatever wisdom I have learned so far in these past five years.

MEMBER BOARD BRIEF



KATHY HART

OKLAHOMA STATE BOARD OF LICENSURE FOR
PROFESSIONAL ENGINEERS AND SURVEYORS
EXECUTIVE DIRECTOR

Annual meeting professional development for MBAs brings focus on enforcement

NCEES RECOGNIZES THE VITAL ROLE OF MEMBER board administrators (MBAs) and for many years has included continuing education for MBAs at the annual meeting. This year, as a part of this process, the Law Enforcement Committee has been invited to present an MBA professional development workshop at the 2018 NCEES annual meeting on Wednesday, August 15. The title of the workshop is “Guidelines for an Effective Law Enforcement Program.”

Whether you, as MBA or board member, participate in the enforcement committee of your board or whether you have extensive oversight from your attorney general’s office, this workshop will speak to some aspect of your board’s important and high-profile enforcement responsibilities. With the threats to licensure looming over all occupational licensing boards, it is prudent to spend time reviewing your enforcement program and processes to ensure that they are defensible to the public, the legislature, and our licensees.

The workshop will include ideas on how member boards can create a positive attitude toward enforcement, a step-by-step guide through the complaint review process, ideas for proactive law enforcement programs, and a review of the enforcement resources available for member boards on the NCEES website. The agenda allows ample time for questions and discussion. The workshop is designed to be of particular interest to MBAs, board members, and law enforcement personnel.

Bruce Pitts, P.L.S., director of enforcement for the Oklahoma board and current chair of the NCEES Committee on Law Enforcement, explained that the workshop information will be applicable to all boards: “The committee recognizes that there is not one perfect set of best practices because all licensing boards do not operate under the same laws and rules and many boards do not have abundant enforcement resources available. But the ideas that will be presented will

The exchange of ideas—sharing common problems and solutions and suggesting efficiencies—is invaluable to our performance as MBAs.

be useful to any board that is able to perform its regulatory authority of enforcing its law and rules.”

The workshop will also include a presentation by Oklahoma board attorney Robert Manchester IV, who will share the attorney perspective on enforcing board licensing acts and rules. He will discuss the prosecuting attorney’s role in the enforcement process, including involving the attorney at the proper time, negotiating settlements and consent orders, preparing orders that will be acceptable for reciprocal action, and preparing for prehearings.

As a long-time MBA for the Oklahoma board, I continually take away from the MBA forums and workshops some nugget of information that enhances my board’s ability to fulfill its mission of protecting the health, safety, property, and welfare of the public. The exchange of ideas—sharing common problems and solutions and suggesting efficiencies—is invaluable to our performance as MBAs. The networking with other MBAs and board members cannot be matched in any other venue. The knowledge obtained from the NCEES annual meeting is then channeled to our staff and board members who could not attend, validating the time and effort put into preparing for and attending these meetings.

ENFORCEMENT BEAT



BRUCE PITTS, P.L.S.

ASSISTANT EXECUTIVE DIRECTOR OF THE OKLAHOMA BOARD OF LICENSURE FOR PROFESSIONAL ENGINEERS AND LAND SURVEYORS

Enforcement: Another tool in the struggle against threats to licensure

ENGINEERING AND SURVEYING LICENSURE IN THE United States originated primarily because of the need to protect the public from unqualified individuals performing engineering and surveying. Whether it was the design of dams and other public structures that failed or the production of fraudulent surveys, maps, and land descriptions that created chaos in the public records and on the ground, states recognized that the public needed to be protected. States also recognized that the best way to protect the public was to create state-sanctioned licenses administered by boards consisting of practitioners recognized for their commitment to ethical and professional practice.

Gradually, those boards united into what has become NCEES—a national organization to help member boards fulfill their missions to protect the public.

The introduction to the NCEES *Investigation and Enforcement Guidelines* states, “The goal of the member boards is to safeguard the health, safety, and welfare of the public by administering the respective laws efficiently, fairly, and judiciously.” It notes that there are two important functions in regulating the professions of engineering and surveying:

- **Licensure:** To ensure that professional engineer and surveyor applicants are qualified to practice their profession in their respective jurisdictions
- **Enforcement:** To ensure that licensees are performing professional services in a manner that conforms with the intent and purpose of the law and related rules of professional conduct and to protect the public from the unlicensed practitioner

NCEES annual and zone interim meetings are dominated by committee reports, motions, and discussions related to the

Demonstration of a commitment to enforcing laws and rules is a strong affirmation of the usefulness and necessity of preserving engineering and surveying licensing boards.

licensing function of member boards. These efforts have helped create the uniformity that was envisioned by the founders of the Council. The commitment of NCEES and its member boards to facilitating licensure mobility among member boards is a strong selling point as member boards face challenges to licensure from individuals who do not understand its importance or who believe it is an impediment to job creation. But equally as important in the defense of licensure is how member boards deal with the enforcement function of licensure.

Legislatures do look at how well boards perform their enforcement function. Administrative reporting to the state government often includes the number of enforcement actions filed and their outcomes. Demonstration of a commitment to enforcing laws and rules is a strong affirmation of the usefulness and necessity of preserving engineering and surveying licensing boards.

NCEES has excelled at assisting member boards with fulfilling their enforcement duties by creating a blueprint for successful enforcement programs, providing a communications platform for greater uniformity in enforcement, and providing a vast array of enforcement resources easily accessible on the NCEES website. Whether it is personal contact with an enforcement expert, step-by-step instructions on investigating a specific case,

or guidelines for an effective board outreach program, NCEES Law Enforcement resources can help.

NCEES member boards have a great public protection success story to tell. The fact that there are so few major engineering and surveying disasters is a testament to the job that member boards have done in enforcing their laws and educating their licensees on licensing issues.

FROM THE PRESIDENT

continued from cover

The NCEES mission includes promoting professional ethics among all engineers and surveyors. The *Model Rules*—the organization’s best-practice guide for licensing laws and ethics—includes the licensee’s obligations to the public, employers and clients, and other licensees. It says, in part,

To safeguard the health, safety, and welfare of the public and to maintain integrity and high standards of skill and practice in the engineering and surveying professions, the rules of professional conduct provided in this section shall be binding upon every licensee and on all firms authorized to offer or perform engineering or surveying services in this jurisdiction.

The 2018 NCEES annual meeting will include two ethics workshops for professional engineers and surveyors. In the first, a representative of the Murdough Center for Engineering Professionalism will explain the seven-step method that can help you organize your thinking about an ethical problem. The second will focus on ethics in terms of environmental obligations. I hope to see many of you there; I think we all could benefit from taking time to focus on ethics,

Nationwide, hundreds or thousands of complaints are still filed annually against licensees and for unlicensed practice; this is testament that licensing boards are a vital institution necessary for the protection of the public and should continue. Demonstrating to our state legislatures that member boards are committed to both our licensing and enforcement functions is a strong argument for that continuation.



Delegates take part in an ethics workshop at the 2017 annual meeting. As part of its efforts to promote professional ethics, NCEES offers two ethics workshops each year at its annual meeting.

regardless of how long we have been practicing our respective professions.

In closing, it has been an honor this year to serve as president and work with individuals across the country who are committed to safeguarding the public, protecting them from incompetent as well as unethical practices.

N.C. State University wins 2018 NCEES Engineering Education Award

NORTH CAROLINA STATE UNIVERSITY IS THE GRAND prize winner of the 2018 NCEES Engineering Education Award. The university received the award for a project completed by the UNC/NCSU Joint Department of Biomedical Engineering. The award jury met on June 5, 2018, in Clemson, South Carolina, to select the \$25,000 grand prize winner.

For the department's project, *Enabling Pediatric Brain Surgery through Head Stabilization*, biomedical engineering students collaborated with clinicians and engineering professionals to design a device that allows for complete skull immobilization for pediatric patients during neurosurgery. This innovation allows for the use of neuronavigation technology, opening new possibilities for treatment in pediatric neurosurgery.

The jury praised the project for identifying a problem in need of a solution and for collaborating with biomedical engineering professionals and medical professionals.

The jury selected seven additional winners to receive awards of \$10,000 each:

- Miami University (Ohio)
Department of Chemical, Paper, and Biomedical Engineering
Design and Implementation of a Community-Driven Water System in a Rural African Village
- Seattle University
Department of Civil and Environmental Engineering
Load Rating and Repair Options for Bridge Connecting Dam and Intake Structure
- Seattle University
Department of Civil and Environmental Engineering
Replacement Design of a Culvert to Allow for Fish Passage
- University of Minnesota Twin Cities
Department of Civil, Environmental, and Geo-Engineering
Multistage Drip Irrigation System in Ethiopia
- University of Nebraska–Lincoln
Charles W. Durham School of Architectural Engineering and Construction
Children's Hospital and Medical Center Expansion



NCEES Engineering Award jurors review the 2018 entries. NCEES received 97 entries for the latest award cycle.

- University of Wisconsin–Madison
Department of Civil and Environmental Engineering
Interlake Lock and Boat Transfer
- University of Wisconsin–Madison
Department of Civil and Environmental Engineering
Law Park Revitalization

The NCEES Engineering Education Award recognizes engineering programs that encourage collaboration between students and professional engineers. EAC/ABET-accredited programs from all engineering disciplines were invited to submit projects that integrated professional practice and education.

A jury of NCEES members and representatives from academic institutions and engineering organizations selected the winners from the 97 entries. The jury considered criteria such as:

- Successful collaboration of faculty, students, and licensed professional engineers
- Protection of public health, safety, and/or welfare
- Multidiscipline and/or allied profession participation
- Knowledge or skills gained
- Effectiveness of display board, abstract, and project description

Representatives from the winning project will receive the award on behalf of the department of biomedical engineering at an annual meeting luncheon on August 17.

The 2018 NCEES Engineering Education Award book will be released this fall. Profiles of the winning submissions are available online at ncees.org/award.

University of Akron receives NCEES Surveying Education Award \$25,000 grand prize

NCEES AWARDED THE UNIVERSITY OF AKRON'S SURVEYING and Mapping program the \$25,000 grand prize for the 2018 NCEES Surveying Education Award. This annual award recognizes surveying programs that best reflect the organization's mission to advance licensure for surveyors in order to safeguard the health, safety, and welfare of the public.

Six additional prizes were awarded to qualifying programs to assist with each program's continued efforts to promote the importance and value of surveying licensure. The award jury considered criteria such as student outcomes and involvement, outreach and recruitment, and the promotion of licensure. The award jury met June 28, 2018, in Clemson, South Carolina, to select the winners.

NCEES Surveying Education Award juror Glen Thurow, P.S., stated, "The University of Akron's three-pronged approach to program growth is to invest in technology, scholarship support, and strategic marketing. This is an excellent example of how to position an institution for the future."

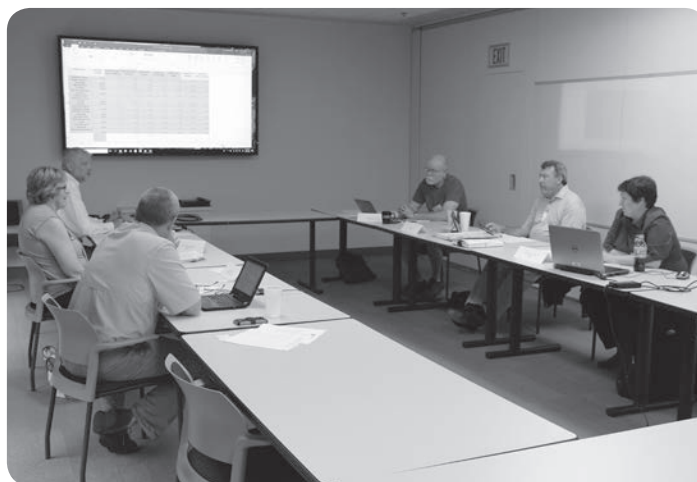
The jury selected six programs to receive the following awards:

\$15,000 winners

- Idaho State University
College of Technology
Surveying and Geomatics Engineering
Technology program
- Oregon Institute of Technology
College of Engineering, Technology, and Management
Geomatics program
- University of Maine
College of Engineering
Surveying Engineering Technology program

\$10,000 winners

- Central New Mexico Community College
School of Applied Technologies
Surveying Engineering program
- East Tennessee State University
Department of Engineering, Engineering
Technology, and Surveying
Surveying and Mapping Science program



The NCEES Surveying Education Award jury reviews the 2018 award entries. The seven-member jury included members of NCEES member licensing boards and representatives of other surveying societies.

- Troy University
College of Arts and Sciences
Surveying and Geomatics Sciences program

The NCEES Surveying Education Award recognizes surveying programs that have a broad and robust curriculum and best reflect the organization's mission to advance licensure for surveyors in order to safeguard the health, safety, and welfare of the public. All surveying/geomatics programs are encouraged to submit applications.

The University of Akron will be honored at the upcoming NCEES annual meeting. Representatives from the winning school will receive the award on behalf of the university's surveying and mapping program at a luncheon on August 17.

NCEES is currently preparing for the 2019 award cycle. More information will be posted at ncees.org/surveyingaward when available.

Getting to know the annual meeting consent agenda

AS DELEGATES SIT DOWN WITH THE *ACTION ITEMS and Conference Reports* to prepare for the annual meeting, they will see that one of the first items on the agenda is the approval of the consent agenda. But what is the consent agenda, and how is it developed?

The consent agenda is a list of motions that the Council will vote on in one motion, without debate. Any motion included in the *Action Items and Conference Reports* is eligible to be included on the agenda, including motions from standing committees and task forces, the board of directors, NCEES zones, or individual member boards. Typically, however, only standing committee and task force motions are included on the agenda.

Per NCEES Administrative Policy 9, the board of directors prepares the consent agenda. The agenda includes motions that the board of directors expects the Council to support without debate.

“Having a consent agenda keeps the business meeting moving more smoothly and allows the Council to quickly address more-routine matters,” NCEES Chief Executive Officer Jerry Carter explained.

At its May meeting, the board of directors considered each motion that will come before the Council at the 2018 annual meeting and developed its position—whether the motion should be on the consent agenda and whether the board endorses, or supports, the motion.

The board has four options for each motion:

- Endorse the motion and place it on the consent agenda
- Endorse the motion and do not place it on the consent agenda
- Do not endorse the motion and do not place it on the consent agenda
- Take no position and do not place it on the consent agenda

Occasionally, the board takes no position on a motion. The board typically uses this designation when it wants the Council to fully debate the motion without being influenced by the board’s opinion.

“Having a consent agenda keeps the business meeting moving more smoothly and allows the Council to quickly address more-routine matters.”

Removing items from the consent agenda

Before the Council votes on the consent agenda, the president asks if anyone would like to remove items from the agenda. Any member board can request that an item be removed. It does not need to offer a rationale; a delegate simply needs to announce the name of the board and the motion that the board wants to remove from the consent agenda.

While boards sometimes remove motions from the consent agenda because they want to debate them or offer amendments, they also remove them if they have questions. Additionally, committees will occasionally remove their own motions from the consent agenda to make corrections. However, member boards do not need to wait until the business session begins to ask questions.

“To help the business session run smoothly and to get boards the information that they need before voting, we encourage members to ask any questions that they have about motions before the business sessions begin,” Carter noted. “They can contact me or NCEES Chief Operating Officer Davy McDowell, and we will point you toward the right person to find the information you need.”

Addressing non-consent agenda items

Motions that are removed from the consent agenda will be considered with the non-consent agenda. For these motions, each standing committee and task force will present its motions to the Council for discussion. If the board of directors opposes a motion, one of its members will present the board’s rationale for its opposition.



Steven Arndt, Ph.D., P.E., of the Maryland engineering board debates a motion at the 2017 NCEES annual meeting. To streamline the business sessions, the board of directors compiles a consent agenda for delegates to vote on in a single motion at the meeting.

The president, who presides over the meeting, will then open the floor for debate of the motion. When debate ends, the president will call for voting. Each member board has one vote, although a board can split its vote. For most motions, a majority vote wins. However, motions to amend the *Bylaws* require a two-thirds majority.

Preparing for the meeting

For full information on the motions up for a vote at the 2018 annual meeting, the official reports from NCEES officers and committees, and a list of the rules that NCEES follows during the annual meeting business sessions, see the *Action Items and Conference Reports*. The publication is posted in the Member Resources section of ncees.org (see Board Resources).

Zone business at the annual meeting

The four zones will meet separately on Thursday afternoon and Friday morning during the annual meeting. Each zone will vote to approve the minutes of its spring interim meeting and to ratify proposed changes to the *Zone Meeting and Continuity Guidelines*.

All of the draft zone minutes and the proposed continuity guideline changes will be posted on the Member Resources section of ncees.org under Board Resources/Annual Meetings by August 7.

HEADQUARTERS UPDATE

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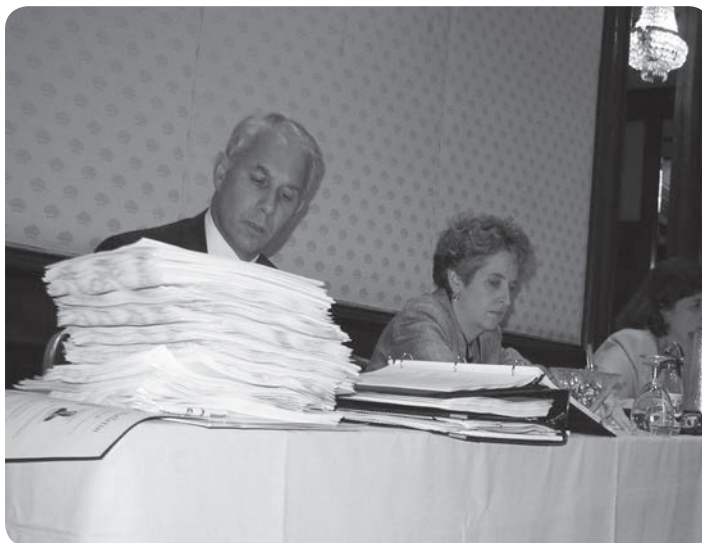
One action that I had not expected to be difficult was changing the official logo for NCEES in 2009. Creating a new logo involved an extensive rebranding exercise, including group sessions to define NCEES attributes. Working with branding experts, we came up with the current logo, but it was the Council adding the tag “advancing licensure for engineers and surveyors” that gave greater meaning to the new insignia.

The biggest change has been the decision to move our exams to computer-based testing (CBT). The Council first began studying this issue in 1999 but decided at the time that the technology was not advanced enough for NCEES to make the change. The matter of CBT was studied and reviewed over the years and finally, in 2010, the Council approved moving all exams to CBT. On January 1, 2014, NCEES began offering the FE and FS exams at Pearson VUE test centers in CBT format. Since that time, the PS exam and PE Chemical exam have been transitioned to CBT, with the PE Nuclear exam scheduled to come online in November 2018. All remaining PE exams are in the process of being converted and should be available via CBT in the next few years.

Ensuring financial security

I am grateful for the financial health of NCEES—and grateful for the diligence and care that brought us this security. In fiscal year 1999–2000, NCEES was experiencing serious financial problems that required many services to be curtailed. Several cost-saving measures were put into place that allowed NCEES to regain its financial footing and to introduce additional services to produce new revenue streams. In 2007, NCEES reserves were listed at just over \$10 million. At the end of the current fiscal year, we anticipate NCEES to have nearly \$70 million in reserves, which is due to increased numbers of examinees, significant growth in the Records and Credentials Evaluations programs, and the board’s conservative investment policy. NCEES is truly blessed to have the financial resources that provide for 100 percent of a year’s operating expenses along with funds specifically designated to recover from a breach of NCEES exams.

I am excited about the progress that NCEES has made in recent years and how the organization continues to adapt to provide the best services possible to our member boards.



Top: Jerry Carter and his son, Matt, relax at the 1996 NCEES annual meeting, which Carter attended as a representative of the North Carolina board. Below: Jerry Carter follows the debate at the 2003 annual meeting, his second after joining NCEES staff.

It has been an honor to be a member of the NCEES staff for more than 17 years and my great pleasure to work alongside so many talented individuals who have such great passion about their work. It has also been a privilege to work through the years with so many dedicated engineering and surveying professionals who have given so much of their time and energy to giving back to their profession and support the licensure process to protect the well-being of the public. I will never be able to fully express my deep appreciation for the honor that has been afforded me and the friendship extended to me through the years.

UPCOMING EVENTS

August 2-4

SE Exam Meeting
Clemson, South Carolina

August 3-4

PE Nuclear Exam Meeting
Clemson, South Carolina

August 10-11

FE Exam Meeting
Clemson, South Carolina

August 14

Board of Directors Meeting
Scottsdale, Arizona

August 15-18

NCEES Annual Meeting
Scottsdale, Arizona

August 17-18

PE Architectural Exam
and PE Mining and Mineral
Processing Exam Meetings
Clemson, South Carolina

August 18

Board of Directors
Informational Meeting
Scottsdale, Arizona

August 23-24

PE Fire Protection Exam and
PE Naval Architecture and Marine
Exam Meetings
Clemson, South Carolina

September 7-8

PE Environmental Exam Meeting
Clemson, South Carolina

September 17-18

PE Petroleum Exam Meeting
Clemson, South Carolina

September 20-21

Board of Directors Orientation
Clemson, South Carolina

September 21-22

PE Civil Exam Meeting
Clemson, South Carolina

MEMBER BOARD NEWS

FLORIDA PE Dylan Albergo, Scott Drury, and Walid Sobh are new appointees. Roland Dove, Anthony Fiorillo, and Warren Hahn are no longer members.

IDAHO Former member William Ancell passed away in December 2017. John Tomkinson is a new appointee. Tom Judge is the new deputy director of surveying.

IOWA Eric Green is no longer a member.

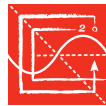
NEBRASKA PS Correction: Virlyn Bolte is a new appointee to the Nebraska PS board, and Richard Hansen is no longer a member. The June 2018 issue incorrectly identified the board as the Nebraska PE board.

NEVADA Angelo Spata is a new appointee. Amy Cheng is no longer a member.

TENNESSEE PE Grant Minchew is a new appointee. Philip Lim, Susan Maynor, and Laura Reinbold are no longer members.

UTAH Paul Hirst is no longer a member.

WASHINGTON Ken Fuller is now the board's executive director.



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EXCHANGE

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NCEES app returns to help users navigate annual meeting

The mobile app for the NCEES annual meeting is back to help attendees get the most out of the 2018 event. Features of the app include the following:

- The full event schedule
- A map of the meeting rooms
- Session enhancements, including the ability to set reminders and take notes
- Detailed information about speakers
- Links to the NCEES Facebook, Twitter, YouTube, and LinkedIn pages
(join the conversation with #NCEES18)
- The ability to build a profile and easily share contact information with other app users

To download and install the app, go to ncees.org/mobile from a mobile device. Or download the app directly from iTunes or Google Play by searching for “NCEES meetings.” All registered annual meeting attendees will receive an email with download and login instructions during the week of August 6.