

AN OFFICIAL NCEES PUBLICATION FOR THE EXCHANGE OF INFORMATION, OPINIONS, AND IDEAS REGARDING THE LICENSURE OF ENGINEERS AND SURVEYORS

ENFORCEMENT BEAT

EDUCATION, OUTREACH ARE KEY TO EFFECTIVE ENFORCEMENT

DAVID EVANS
ASSISTANT EXECUTIVE
DIRECTOR
NORTH CAROLINA
BOARD OF EXAMINERS
FOR ENGINEERS AND
SURVEYORS



The most critical role in regulating the engineering and surveying professions is to protect the health, safety, and welfare of the public. Public protection is accomplished through the rigors of the licensing process and enforcement. To facilitate enforcement, a board must be proactive in getting information to applicants, licensees, regulators, and the public at large. In short, those individuals should know that the board exists, why it exists, and what it can do.

To facilitate enforcement, a board must be proactive in getting information to applicants, licensees, regulators, and the public at large.

If your board has very few complaints, it might be time to do some outreach.

With future licensees

North Carolina uses a two-pronged approach to communicating with engineering students, many of whom will be

licensees. First, the board or staff meets with classes at the state's engineering schools to discuss licensure and promote the FE examination. The second part is to make presentations on ethics and the Rules of Professional Conduct, usually by way of disciplinary case studies.

We have found these programs to be very well received. They are an effective way to introduce the board's work as well as the rules and requirements that come with the privilege of licensure to those who are in the early stages of the licensing process.

With current licensees

The North Carolina board also makes dozens of presentations to professional and technical associations every year using board members and staff, including legal counsel. This has resulted in improved communication with our licensees. Many of the presentations qualify for continuing professional competency credit, so it's a win-win situation: the board gets an opportunity to educate licensees about the rules and laws, and the organization sponsoring the seminar gets a speaker at no charge.

In addition to keeping licensees informed through continuing education programs, a board can educate them on licensure rules and deter them from committing violations by publicizing disciplinary actions in its newsletters and on its Web site. To instill confidence in the board's enforcement efforts, it is also important to take appropriate and consistent disciplinary actions.

With regulators

The North Carolina board educates regulators through presentations, meetings, publications, and letters. It directs its efforts to those that review licensees' work, such as the Department of Environment and Natural Resources, the Department of Transportation, the State Construction Office, the Register of Deeds, and local planning and inspection departments.

continued on page 11

Committees, task forces begin addressing Council issues for 2010-11

A representative of each committee and task force will attend the zone meetings this spring to present their preliminary findings and get feedback from NCEES delegates.

Charge: To entrust with a task as a duty or responsibility

President Joseph Timms, P.E., has entrusted NCEES committees and task forces with an impressive number of tasks this year—88, in fact. With input from the Board of Directors and the member boards, he assigned these charges to establish the Council's focus in 2010-11. Only two months into the new fiscal year, the 100-plus committee and task force members have already started the work necessary to complete their assigned tasks.

The Council's standing committees are concentrating on areas such as examinations, finances, and law enforcement. President Timms has also appointed a special committee on *Bylaws* and two task forces to address computer-based testing and the evaluation of licensure applications, respectively.

A representative of each committee and task force will attend the zone meetings this spring to present their preliminary findings and get feedback from NCEES delegates. The groups will then submit their final reports, and the Council will vote on any resulting motions at the 2011 annual meeting in August.

The following is an overview of the issues they will address this year. A full list of charges is available on the My NCEES section of the NCEES Web site.

Advisory Committee on Council Activities
Chair: John Steadman, Ph.D., P.E.
(Wyoming board emeritus member)
Board of Directors liaison: Joseph Timms, P.E.
(president)
Members: 9 (plus 1 consultant)
Charges: 8

ACCA makes recommendations on policy issues that are not assigned to a standing committee or that involve several committees. It reviews the NCEES *Manual of Policy and Position Statements* and recommends needed revisions.

This year, the committee will evaluate the need for adding a standing committee on education, and it will develop a position statement on evaluating qualifications for non-Model Law engineers and surveyors. ACCA also will examine the impact of industrial exemptions on member boards' ability to protect the public and recommend any needed changes to the NCEES *Model Law* and *Model Rules*.

Committee on Awards
Chair: Gene Corley, Ph.D., P.E., S.E.
(Illinois SE board member)
Board of Directors liaison: Joseph Timms, P.E.
(president)
Members: 5
Charges: 2

The Committee on Awards collects nominations for NCEES service awards, which are presented each

$$1000 \frac{\pi 1.5^2}{4} 7.9^2 - 1000 \frac{\pi 3^2}{4} 1.98^2$$

$$110,288 - 27,712$$

$$\frac{kg}{m^3} m^2 \left(\frac{m}{s}\right)^2$$

year at the annual meeting, and recommends recipients to the Board of Directors.

This year, the committee will also accept nominations for the new Distinguished Examination Service Award.

Committee on Examination Audit

Chair: George Roman, P.E., P.L.S.

(Pennsylvania board emeritus member)

Board of Directors liaison: Govind

Nadkarni, P.E. (Southern Zone

vice president)

Members: 5 (plus 3 consultants)

Charges: 4

The Committee on Examination Audit conducts regular audits of the NCEES exam program. This year, it will audit administrations of the FE exam and the following PE exams: Agricultural, Architectural, Fire Protection, Mechanical, and Petroleum.

Committee on Examination Policy and Procedures

Chair: Larry Smith, P.E. (Rhode Island PE board member)

Board of Directors liaison: Nancy Gavlin, P.E., S.E. (Central Zone vice president)

Members: 9 (plus 2 consultants)

Charges: 11

The EPP Committee reviews the effectiveness of the NCEES exam process and recommends revisions to exam policies and procedures when needed.

This year, the committee will recommend revisions to relevant exam policies to limit

the number of reference books allowed for the PS exam to five, effective with the October 2012 exam administration, and to implement a closed-book policy for the PS exam beginning no later than the October 2014 administration. Currently, examinees are not limited on the amount of reference material they can bring into the exam.

The committee's other charges include examining whether there are situations where it is appropriate for NCEES to be authorized to invalidate an examinee's score without member board input and reviewing the EPE Committee's recommendation to move the PE Industrial exam from the fall exam administration to the spring.

Committee on Examinations for Professional Engineers

Chair: James Milligan, Ph.D., P.E.

(Idaho board member)

Board of Directors liaison: Dale Jans, P.E.

(president-elect)

Members: 13 (plus 1 consultant)

Charges: 11

The EPE Committee oversees the development and scoring of the FE and PE exams. Its recurring charges include conducting Professional Activities and Knowledge Studies to update exam specifications, implementing Committee on Examination Audit recommendations that are approved by the Board of Directors, monitoring the training of exam development volunteers, and recommending changes to exam policies and procedures as needed.

This year, the EPE Committee has several charges related to moving the FE exam to computer-based testing. The committee will also continue to develop a plan to either move the PE exam to closed-book administrations with NCEES-supplied references or limit the amount of reference materials allowed in the exam room.

It is studying this issue to address security concerns and computer-based testing issues.

Committee on Examinations for Professional Surveyors

Chair: Gary Thompson, P.L.S.

(North Carolina board member)

Board of Directors liaison: David Widmer, P.L.S. (Northeast Zone vice president)

Members: 13 (plus 1 consultant)

Charges: 10

The EPS Committee oversees the development and scoring of the FS and PS exams. It reviews item performance, monitors the training of exam development volunteers, and implements recommendations from the Committee on Examination Audit that have been approved by the Board of Directors.

Several of the committee's charges for the year relate to changing the administration of the FS exam to a computer-based format. The committee will also continue to develop a plan for either moving away from an open-book PS exam or limiting the amount of reference material permitted in the exam room.

continued on page 4

COMMITTEE FOCUS

Other charges include considering whether there should be a term limit for exam committee volunteers and creating a position paper on the benefits to the public if a bachelor's degree is set as the minimum education requirement for surveying licensure. EPS chair Gary Thompson explained that the position paper will be a resource for licensing boards when working with elected representatives to change education requirements or when they receive questions from the public.

"The EPS Committee needs to continue to provide support to licensing boards that are moving to requiring a bachelor's degree for surveying licensure. This position paper will be a valuable asset to states working to make this change," he said.

Committee on Finances

Chair: Skip Harclerode, P.E. (Maryland PE board member)

Board of Directors liaison: Gene Dinkins, P.E., P.L.S. (treasurer)

Members: 9

Charges: 7

The Committee on Finances studies the financial needs of NCEES and recommends sources of income and ways of securing adequate funds for its operation. The committee will review the results of the 2009–10 audit and the current financial condition of NCEES and work with NCEES leadership to recommend an income and expense budget for 2011–12.

Like many other NCEES committees, the Committee on Finances will assist with

preparations for converting the FE and FS exams to computer-based testing. It will recommend pricing for the exams after the conversion and identify implementation costs to change the exams' administration format and recommend necessary adjustments to the NCEES budget.

Committee on Law Enforcement

Chair: James Purcell, P.E. (New Jersey board member)

Board of Directors liaison: David Widmer, P.L.S. (Northeast Zone vice president)

Members: 9

Charges: 10

The Committee on Law Enforcement promotes greater uniformity and cooperation between member boards in the enforcement of licensure laws. The committee maintains the NCEES *Investigation and Enforcement Guidelines* and *Investigative Training Manual*, best practice manuals for enforcement activities and training; conducts a law enforcement program at the NCEES annual meeting; and writes the column "Enforcement Beat" for *Licensure Exchange*.

This year, the committee's other charges include developing a curriculum for investigator training appropriate for board members, staff, investigators, and attorneys as well as developing guidelines for enforcement uses for the NCEES examinee management system. The Committee on Law Enforcement will also develop model language for NCEES governance documents that allows member boards the authority to levy civil penalties for the unlicensed practice of engineering or surveying.

Committee on Nominations

Chair: David Whitman, Ph.D., P.E. (past president)

Members: 5 (plus 4 alternate members)

Charges: 2

The Committee on Nominations submits the nominations of officers for the next administrative year. This year, the committee will solicit a nomination from the Southern Zone for the office of president-elect. It will also solicit nominations for treasurer and a Nominations Committee member and alternate member from each of the four zones. It will submit a slate of officers for 2011–12 at the 2011 annual meeting.

Committee on Uniform Procedures and Legislative Guidelines

Chair: Patrick Tami, P.L.S. (California board member)

Board of Directors liaison: Patty Mamola, P.E. (Western Zone vice president)

Members: 9

Charges: 9

Each year, the UPLG Committee looks for ways to strengthen the licensure process and proposes any necessary changes to the *Model Law* and *Model Rules*, the documents that provide member boards with a model for their own practice laws to regulate the engineering and surveying professions.

The committee's charges for 2010–11 include recommending changes to the *Model Rules* to add a requirement for credits in ethics and/or business-related practice to continuing professional competency requirements as well as reviewing the *Model Law* and *Model*

Rules to recommend any changes necessary to implement computer-based testing for the FE and FS exams.

As approved by NCEES at the 2010 annual meeting, the UPLG Committee will recommend changes to the *Model Law* to add another pathway to meet the additional education requirement for engineering licensure effective in 2020. This route will accept a bachelor's degree from an EAC/ABET-accredited program that has at least 150 semester credit hours, of which at least 115 are in math, science, and engineering combined, with at least 75 of the 115 in engineering.

Computer-Based Testing Task Force

Chair: David Curtis, P.E. (Idaho board administrator)

Board of Directors liaison: Gene Dinkins, P.E., P.L.S. (treasurer)

Members: 4 (plus 3 consultants)

Charges: 3

The Computer-Based Testing Task Force, with assistance from the EPE and EPS committees, will develop a comprehensive plan and timetable for preparing and administering the FE and FS exams as computer-based exams. It also will assist NCEES staff with selecting a CBT vendor and developing the contract for testing services.

This work follows the Council's decision to move the FE and FS exam administrations to a computer-based format at the earliest feasible date.

Task force chair David Curtis said that one of the most challenging aspects of the task force's work will be developing a communication plan for member boards, universities, and potential examinees.

"It's important to have an effective plan to avoid the drop in exam takers that other professions have seen when they've moved to computer-based testing," he explained. "We need to anticipate stakeholders' concerns and help them overcome those concerns by effectively explaining why we're making particular changes."

Evaluation of Applications Task Force

Chair: Donna Sentell (Louisiana board administrator)

Board of Directors liaison: David Whitman, Ph.D., P.E. (past president)

Members: 11

Charges: 3

The Evaluation of Applications Task Force, which was convened last year, will continue to address the application process for both initial and comity licensure.

This year, the task force will develop model licensure forms, including an application form, a verification of experience/reference form, a verification of exams/licenses form, and a code of ethics exam. The task force will also survey member boards to determine any changes that need to be made to the NCEES Records process.

Special Committee on Bylaws

Chair: Peggy Abshagen (Delaware PE board administrator)

Board of Directors liaison: Dale Jans, P.E. (president-elect)

Members: 5

Charges: 7

President Joe Timms convened the Special Committee on Bylaws this year to recommend necessary changes to the NCEES *Bylaws* to provide that associate members may be elected zone secretary-treasurer, to require a past NCEES treasurer to be a member of the Committee on Nominations, and to require the Committee on Nominations to put forth qualified candidates for treasurer each biennium.

How are we providing leadership continuity?

Member involvement must be encouraged, supported

The relationship between NCEES and its member licensing boards, including the individuals who serve on these boards, is one that has flourished over the years, thereby providing a continuous flow of volunteer leaders from the ranks of member boards. Yes, there are times when certain jurisdictions, as well as NCEES, have been concerned that a position might go vacant; however, there has always been a member that will step up and fill the position.

While we appreciate the efforts of individuals who are willing to fill leadership roles and accept the accompanying responsibilities, there are many other licensing board members who do not take part in Council activities.

In April 2010, the Advisory Committee on Council Activities surveyed current and emeritus board members to determine impediments to pursuing leadership roles within NCEES. Of 220 responses, 77 percent felt that funding for meeting attendance was most important in encouraging leadership activities, and 67 percent felt that their local board's support was important.

When the respondents were asked to list any additional items that they considered important, they were very consistent in making reference to educating board members on NCEES operations, purposes, and goals.

Addressing lack of knowledge

NCEES offers a new member orientation at the annual meeting, and a PDF of the presentation is available on My NCEES, along with all of the other annual meeting workshops. This orientation explains the Council's mission, the products and services it offers, what each of the committees do, and how members can get involved. NCEES also sends an information packet to new members to let them know about NCEES history, its structure, and its current initiatives.

Member boards need to use the available resources to educate new members on what NCEES does as well as how they can get involved (and the travel and time commitments that come with that involvement). It would go a long way in getting them in the loop and not feeling like a deer in the headlights at their first zone or annual meeting.

Addressing lack of funding

It would also seem logical that volunteerism might be dampened in these days of budgetary constraints, both on a personal level as well as a jurisdictional level. Most jurisdictions have imposed travel restrictions on public agencies, thereby preventing willing members to travel to NCEES meetings.

This year, NCEES took an important step to get members involved in Council activities at the start of their board terms. At the 2010 annual meeting, NCEES voted to amend the

LOUIS A. RAIMONDI, P.E., L.S.
NCEES PAST PRESIDENT



policy on travel expenses to provide funding for one first-time attendee from each member board to go to the annual meeting. This funding is only available for individuals who have been on their respective boards for 18 months or less, giving the newest members a chance to take part in Council business and meet with members of other boards. This is in addition to the Council's funding for each member board to send a delegate to its zone interim meeting and the annual meeting.

Attending one of these meetings is a great way for new members to learn about what NCEES does and how they can make a difference, and this funding provides a way to overcome the financial restrictions that limit such opportunities. Member boards need to use this resource to get their members involved in the Council; it can pay dividends in the future by providing a strong leadership pool.

Addressing lack of interest

A seemingly innocent solution has been put forth by NCEES to try to overcome the perceived lack of interest by members of member boards: having member board administrators act as board representatives under the category of associate members. With no disrespect to the MBAs, this type of solution would seem to further distance the members from becoming active in the work of the Council and thereby being groomed for leadership roles. Human nature tells us

that if someone is doing your job, you will in all likelihood sit back and eventually become apathetic.

It is important for member boards to encourage their members to participate in Council activities and support that involvement however they can. Board members need to be encouraged to get involved rather than relying on the MBAs to shoulder the responsibility for them.

To quote some of the current NCEES Board of Directors comments in the August 2010 issue of *Licensure Exchange*, it would seem that membership's involvement is a must.

Immediate Past President David Whitman, in thanking more than 1,000 volunteers who do the important work of the Council, reminds us of the professional motivation and responsibility just waiting to be tapped. President-Elect Dale Jans

said that NCEES is a member-driven organization; our process allows the members to determine the direction of the association. Additionally, Western Zone Vice President Patty Mamola stated that the membership should direct the organization and not the other way around.

Let's not forget that the honor and prestige of being appointed to a licensing board is still the motivating factor behind the members' accepting responsibility, and we should do all that is necessary to keep that interest at the top of everyone's agenda.

At this point, the largest deterrent seems to be of a financial nature. Therefore, if we want to get the membership involved—and ensure a supply of individuals in the pipeline to fill leadership roles—we must provide more funding for them to participate in Council meetings and activities.

Board of Directors approves exam item costs

The NCEES Board of Directors has approved the following amounts as reasonable valuations of exam items for 2010–11:

FE exam item cost	\$2,130
PE exam item cost—Group I	\$2,744
PE exam item cost—Group II	\$2,195
FS/PS exam item cost	\$1,886
Structural II exam item cost	\$34,656

(The exam item cost for the new Structural Engineering exam, which will be administered for the first time in April 2011, will be set in February 2011.)

Each year, NCEES assesses the financial damages associated with an exam breach and sets a cost to replace an exam item, or question, if it can no longer be used. NCEES considers travel expenses, subject matter experts' time, psychometric costs, and office and personnel costs when establishing the dollar value of each exam item. Item costs for Group II exams do not include the travel expenses that sponsoring technical societies pay for their volunteers, who write items and assemble these exams.

The updated exam item costs are in effect for fiscal year 2010–11, which began on October 1.



JOSEPH TIMMS, P.E.
NCEES PRESIDENT

FROM THE PRESIDENT

Thanks to professional engineers, surveyors who volunteer to write exams

We can be thankful that thousands of people are willing to sacrifice their time and talent to work on our exams and our committees.

We have finally seen the end of a horrible political season with negative ads shouting about how bad the other guy is. We have been bombarded with negative TV and radio ads and recorded phone calls. Political signs dot our highways, city streets, and the bumpers of cars. In some cases, it seems like freedom of speech gone wild. In most cases, we are led to believe that if we vote the wrong way the American way of life will come to an end.

We now come to a quieter time of the year when we can reflect on the many things we can be thankful for. This commentary will be published after we have celebrated Thanksgiving, but I would like to express thanks for some of the many things I have observed during my years of being involved with a state licensing board and with NCEES.

With regard to the elections, we can be thankful we live in a free country still ruled by laws. While times are tough in a number of areas of our country, we Americans are basically a resilient and optimistic people. To quote Bob the Builder, we continue to say “yes, we can” to overcoming hardships. (Children’s TV character and consummate optimist Bob the Builder introduced this phrase that has become so popular with political speechwriters.) I am thankful we have licensed professionals who can solve many of our nation’s problems.

We can be thankful that thousands of people are willing to sacrifice their time and talent to work on our exams and our committees. I am in awe

when I’m in Clemson and see the volunteer talent assembled to write our engineering and surveying exams. Our standing committees and task forces are all engaged and working on the many charges they have been given. Without the experience, dedication, and vision of these people, there is no way that our professions can react to the needs of the future while serving the public.

Protecting the public is the main mission of NCEES and its member licensing boards. Some boards are having financial problems, usually tied to the financial problems of their states. Regardless of their hurdles, the volunteer board members and their board administrators are working hard to assure that the licensure process keeps its integrity and the public is protected. We can be thankful for these people, who work on the front lines to keep intact the great reputation of professional engineers and surveyors.

And finally, we as a Council can be thankful for the great staff that has been assembled in Clemson. As president, I have come to appreciate them more and more for their attention to detail and their anticipation of changing needs. I continue to be amazed at the number of things being accomplished by a small staff working as a team.

So as the politicians settle into their offices, let us be thankful that the campaigning is over for now and they can work to solve the nation’s problems. And let us be thankful that we have the talent of licensed professionals to be part of the solution.

$$V_2 = \frac{20 \text{ k}}{\text{min}} \times \frac{1 \text{ m}^3}{1000} \times \frac{1}{(\pi)(0.5)^2} \times \frac{0.005 \text{ m}^2}{1 \text{ m}^2} \times \frac{1}{6}$$

$$V_2 = 4.24 \text{ m/s}$$

NCEES prepares for first administration of new Structural Engineering exam

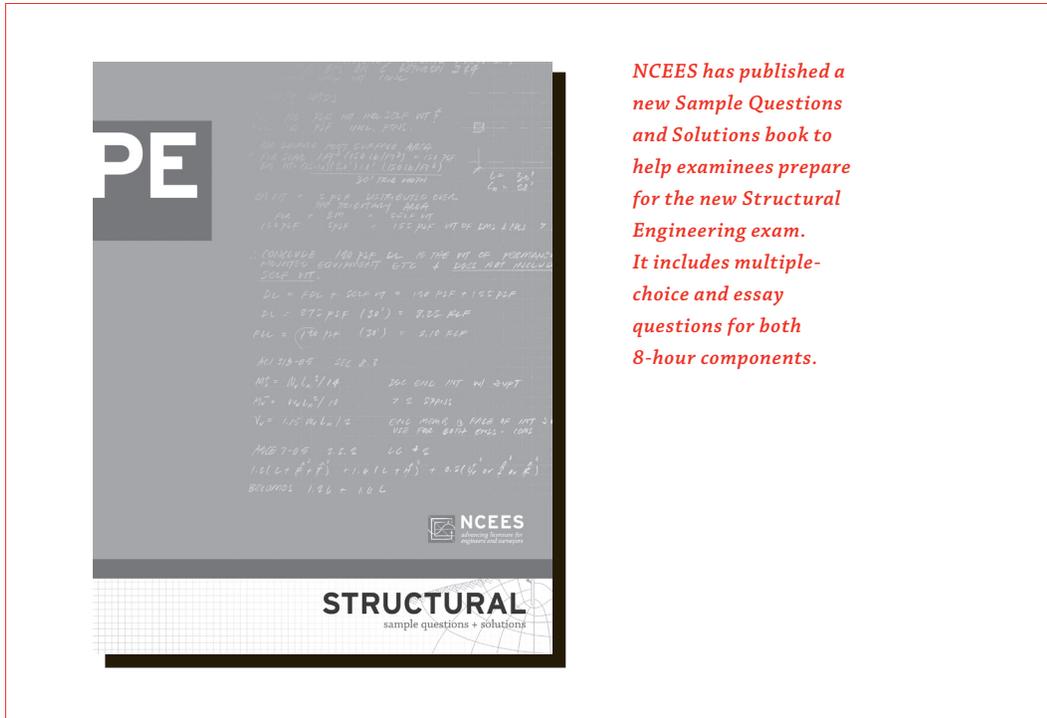
New 16-hour exam will be introduced in April 2011

The close of the October 2010 exam administration also signaled the end of the NCEES Structural I and II exams. NCEES is now preparing for the first administration of the 16-hour Structural Engineering exam, which will be offered for the first time in April 2011. The exam will be used by states that require specialized licensure for structural engineers.

One exam with two components

The Structural Engineering exam is a breadth-and-depth exam offered in two components on successive days. The 8-hour Vertical Forces (Gravity/Other) and Incidental Lateral component, which is offered on a Friday, focuses on gravity loads and lateral earth pressures. The 8-hour Lateral Forces (Wind/Earthquake) component, which is offered on a Saturday, focuses on wind and earthquake loads.

For both components, there is a breadth exam in the morning and a depth exam in the afternoon. The breadth exams contain multiple-choice questions covering a comprehensive range of structural engineering topics. The depth exams contain constructed response, or essay, questions that focus more closely on a single area of practice in structural engineering. Examinees choose either buildings or bridges; they must work the same topic area on both the Vertical Forces and Lateral Forces components.



NCEES has published a new *Sample Questions and Solutions* book to help examinees prepare for the new Structural Engineering exam. It includes multiple-choice and essay questions for both 8-hour components.

Cost of new exam

NCEES has set a price of \$410 for each 8-hour component. Individual licensing boards or their testing services usually add application and administration fees to cover costs such as exam site rental and proctoring services.

What is required to pass?

Examinees must obtain acceptable results on both 8-hour components to pass the Structural Engineering exam. They do not have to get acceptable results on both in a single exam administration period, however. A candidate may choose to attempt only one

component in an exam administration, or he or she may attempt both but only obtain an acceptable result on one. In either case, the candidate would then sit for the other component at a later administration. Some state licensing boards may impose a five-year window for getting an acceptable result on the remaining component.

Resources to familiarize examinees with the exam's format and content are available at ncees.org (see Exams section). These include the exam specifications, which list the topics in each component, and a new book of sample questions and solutions.



JERRY CARTER
NCEES EXECUTIVE DIRECTOR

NCEES staff works to be good stewards of environment and Council resources

I was not surprised by the staff's enthusiasm for these initiatives. What amazed me is how small efforts to help the environment translated into real monetary savings.

One of the things that make my job so rewarding is working with people who are concerned about their community and the environment. In 2008, the NCEES staff created a "Green Team" to find ways to be more eco-friendly as an organization and to better conserve our resources.

At a recent staff luncheon, the team reported on staff efforts to make NCEES a little greener. Our green projects include recycling cardboard and paper, installing motion-sensitive lighting in the kitchens at NCEES headquarters, and donating outdated exhibit equipment to other nonprofit organizations. We also now print NCEES study materials on Elemental Chlorine Free (ECF) paper that meets the guidelines of the Sustainable Forestry Initiative (SFI) and the Rainforest Alliance.

I was not surprised by the staff's enthusiasm for these initiatives. What amazed me is how small efforts to help the environment translated into real monetary savings.

Double-sided printing

We set printer defaults to two-sided printing and spent \$4,400 less on paper and \$2,700 less on toner this year than we did last year. We also donate paper with printing on only one side to local teachers looking for creative solutions to budget shortages. (Our confidential material continues to be shredded and recycled.)

Communicating electronically

Using electronic communication methods saves paper, but it also saves money on printing and postage. We will electronically distribute the updated speakers' kits to our network of volunteers promoting licensure, cutting about \$40,000 in production and shipping costs. The *Zone Update* newsletter is now sent via e-mail, saving over \$1,100 a year, and employee paycheck stubs are posted online at a secure HR site. Annual meeting registration is also online now. Using the RegOnline service costs NCEES about \$1,700; previously, registration materials were printed and mailed for just over \$7,000.

Redistributing supplies

The Green Team periodically collects surplus office supplies from staff, an initiative dubbed Recoup Coup. Some of the reclaimed items are donated to local schools, but most go back on our shelves for other staff members to use. This year, NCEES spent \$400 less on pens alone. Switching to rechargeable batteries for computer mice saved another \$400.

After the April 2010 exam administration, we also donated leftover pencils to local schools. With the date printed on them, we couldn't use the pencils for another exam, but we could use them to help children and their parents save money on supplies.

I am proud of our efforts to be environmentally and fiscally responsible. For me, it is truly a privilege to be a member of the NCEES staff.

$$\Pi_3 : M^0 L^0 T^0 = (L T^{-2})^c (M L^{-3})^d (L^2)^k$$

$$M^0 L^0 T^0 = M^{d+1} L^{-3d+2k} T^{-2c}$$

Ontario removes citizenship, residency requirements for P.Eng.s

On October 25, 2010, the provincial government of Ontario, Canada, passed new legislation that eliminates the requirement to be a citizen or permanent resident of Canada to get a professional engineering license. This move, which will allow U.S. citizens to obtain P.Eng. licenses in Ontario, was one of 66 amendments to the Professional Engineers Act, submitted by Professional Engineers Ontario, the licensing and regulating body for engineering in the province.

NCEES Past President Gene Corley, Ph.D., P.E., S.E., worked with PEO to guide the legislation's development. In receiving a license from PEO, he became the first professional engineer to benefit from the residency requirement's removal. "This is a significant development for the profession to have such an important province join other jurisdictions that issue licensure based on technical merit without other limitations," he said.

Source: CTLGroup news release, November 3, 2010

ENFORCEMENT BEAT

continued from cover

Licensing and certification requirements and identifying potential violations are routinely covered. For example, the board developed a brochure with the N.C. Board of Architecture to address building inspectors' common questions about the professions.

Our investigative staff routinely visits regulatory officials. This is an economical, practical way to interact with regulators and encourage them to be our eyes and ears. Additionally, the board sends them notices of revocations, suspensions, and restrictions.

With the public

A board's very reason for existence is to protect the public, so it is important for the public to be able to easily communicate with the board. Since most everyone first makes contact with the board through its Web site, there are some basic things the public should be able to do online: look up licensees and violators, review complaint procedures and jurisdictional information, obtain rules and laws, and contact enforcement personnel.

Enforcement involves more than simply responding to complaints and disciplining violators. Incorporating proactive education and outreach programs helps boards more effectively enforce licensure laws and protect the public.

Upcoming Events

December 10-11

Structural (Bridge) Cut Score Meeting
Clemson, South Carolina

January 6-7

Evaluation of Applications Task Force Meeting, San Diego, California

January 6-8

Electrical Exam Meeting
Clemson, South Carolina

January 7-8

Structural Exam Item Writing Meeting
San Diego, California

January 13

EPS Committee Meeting
Clemson, South Carolina

January 14-15

Surveying Exam Meeting
Clemson, South Carolina

January 21-22

Civil Exam Meeting
Clemson, South Carolina

Control Systems Exam Meeting
Houston, Texas

January 27-29

FE Exam Meeting
Clemson, South Carolina

January 29

Law Enforcement Committee Meeting
San Diego, California (tentative)

L. Joseph Timms, P.E.
President
Bridgeport, West Virginia

David L. Whitman, Ph.D., P.E.
Past President
Laramie, Wyoming

Dale A. Jans, P.E.
President-Elect
Sioux Falls, South Dakota

Gene L. Dinkins, P.E., P.L.S.
Treasurer
Columbia, South Carolina

Nancy L. Gavlin, P.E., S.E.
VP Central Zone
Chicago, Illinois

David H. Widmer, P.L.S.
VP Northeast Zone
Beaver Falls, Pennsylvania

Govind Nadkarni, P.E.
VP Southern Zone
Corpus Christi, Texas

Patty Mamola, P.E.
VP Western Zone
Reno, Nevada

Jerry T. Carter
Executive Director/Secretary
Clemson, South Carolina

Licensure EXCHANGE

PUBLISHED BY NCEES

**Jerry T. Carter, Executive Director
and Publisher**

**Keri B. Anderson, Manager of
Corporate Communications**

**Jennifer L. Williams and
Doug McGuirt, Editors**

**Ragenia P. Thompson, Graphics and
Print Coordinator**

ISSN NO. 1093-541X
VOLUME 14, ISSUE 6

All articles within *Licensure Exchange* may be reprinted with credit given to this newsletter and to NCEES, excluding those articles reproduced in *Licensure Exchange* with permission from an original source.

POSTAL NOTICE

Licensure Exchange is published bimonthly by NCEES, 280 Seneca Creek Road, Seneca, SC 29678-9214.

Periodicals postage paid at Clemson, SC 29633

Postmaster: Send address changes to *Licensure Exchange*, P.O. Box 1686, Clemson, SC 29633-1686



P.O. Box 1686
(280 Seneca Creek Rd)
Clemson, SC 29633 USA

PERIODICALS
POSTAGE PAID
CLEMSON, SC
29633

New editions of PE exam study materials published NCEES updates titles in Sample Questions and Solutions series

NCEES has published new editions of several books in its Sample Questions and Solutions series of exam study materials.

NCEES now offers separate Sample Questions and Solutions books for the PE Civil exam subdisciplines: Construction, Geotechnical, Structural, Transportation, and Water Resources and Environmental. All five books contain the same sample morning questions, which cover a broad range of civil engineering topics.

Previously, sample questions for PE Civil exam subdisciplines were published together. The change brings a lower price—\$15 less than the all-in-one book—and more samples, as Tim Miller, P.E., NCEES director of exam services, explained.

“The previous version had 20 questions for the common morning portion and 20 for each of the five afternoon options. Now, we include 40 morning questions and 40 afternoon questions, making a full-length practice exam, with solutions, for each subdiscipline,” he said.

Study materials for the PE Chemical and PE Environmental exams also have been updated to fit the exams’ new specifications, which will first be used for the April 2011 administration of the exams.

New Structural Engineering exam study materials

NCEES has published a Sample Questions and Solutions book for the new 16-hour Structural Engineering exam, which will be introduced in April 2011. For each of the exam’s two components, the book includes 40 multiple-choice questions and four building and three bridge essay questions and solutions. (For more information on the new exam, see page 9.)

The NCEES Sample Questions and Solutions series can be ordered online at ncees.org.