

# Design LINES

THE TENNESSEE BOARD OF ARCHITECTURAL AND ENGINEERING EXAMINERS

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## – NEW AND PROPOSED RULES –

The State Board of Architectural and Engineering Examiners adopted the following proposed rules at the April 9, 2015 regularly scheduled meeting. These rules were filed with the Secretary of State on September 15, 2015, and will become effective ninety (90) days after their filing on December 14, 2015 without a hearing unless petitions are filed with the Secretary of State requesting a hearing in accordance with Tenn. Code Ann. § 4-5-202.

- Proposed Rules 0120-01-.25 Renewal of Registration, 0120-02-.03 Service in Areas of Competence, 0120-02-.04 Public Statements, 0120-04-.03 Applications, 0120-04-.08 Renewal of Registration, 0120-05-.08 Exemptions, 0120-05-.13 Reciprocity, and 0120-06-.03 Disclosure Requirements are amended to delete gender-specific language.
- Proposed Rule 0120-01-.06 Applications – Engineer Intern is amended to set the engineer intern application fee at \$15.00 (the fee was inadvertently omitted when the rule was last amended, resulting in an emergency stay of this rule) and to change the application procedure to reflect a change in the law allowing applicants to apply for engineer intern certification after passing the required examination rather than applying for admission to the examination (see the Legislative Update in

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## 2016 MEETING SCHEDULE

February 10-12.....Committee/Board Meetings/Hearings  
April 13-15.....Committee/Board Meetings/Hearings  
June 1-3.....Committee/Board Meetings/Hearings  
August 10-12.....Committee/Board Meetings/Hearings  
October 5-7Planning Session/Board Meeting (location to be determined)  
December 7-9.....Committee/Board Meetings/Hearings

Unless otherwise indicated, all meetings are held in Nashville, Tennessee, in the Davy Crockett Tower, 500 James Robertson Parkway. Please contact the Board office at 615-741-3221 or 800-256-5758 to verify times and locations, as the meeting schedule is subject to change. Meeting agendas and minutes are available on the Board's website ([www.tn.gov/commerce/section/architects-engineers](http://www.tn.gov/commerce/section/architects-engineers)).

## NEW AND PROPOSED RULES *continued from page 1*

this newsletter). Also, Rule 0120-01-.21 Reexamination – Engineer Intern is repealed in light of this change to the application procedure.

- Proposed Rules 0120-01-.11 Education and Experience Requirements – Architect, 0120-01-.12 Education and Experience Requirements – Landscape Architect, and 0120-04-.05 Experience Requirements are amended to allow experience credit for teaching with full-time faculty status in a college or university offering an approved architectural, landscape architectural, or interior design curriculum. In addition, Rule 0120-04-.05 Experience Requirements is amended to exempt interior design educators from the client reference requirement.
- Proposed Rule 0120-01-.13 Examinations – General is amended to delete gender-specific language and an obsolete provision regarding failure to turn in examination papers. Additionally, language is added stating that failure to

cooperate with the Board's or any appropriate examination authority's investigation of examination irregularities may result in invalidation of an applicant's examination results or other action determined by the Board.

- Proposed Rule 0120-02-.02 Proper Conduct of Practice is amended to delete gender-specific language and to state that if a registrant becomes aware of a decision taken by an employer, client, or contractor, against the registrant's advice, which violates applicable Federal, State or Local Laws, Regulations, and Codes which may affect adversely the safety, health and welfare of the public, the registrant shall report the decision to the authority having jurisdiction charged with the enforcement of the applicable Federal, State or Local Laws, Regulations, and Codes. The current language of the rule requires reporting such decisions to local building inspectors or other public officials, which restricts its applicability to

registrants who design buildings. Additionally, paragraph (6) of the rule, which addresses qualifications-based selection, is amended to update a statutory citation and to clarify that a registrant may not submit any information as part of a proposal for a public project to the state or any of its political subdivisions that would enable the governmental entity to evaluate the proposal on any basis other than the competence and qualifications of the registrant to provide the services required. This reflects current law as prescribed at Tenn. Code Ann. § 12-4-107(a).

- Proposed Rules 0120-02-.06 Acceptance of Work and 0120-04-.10 Professional Conduct are amended to delete gender-specific language and to adopt new language regarding misrepresenting one's

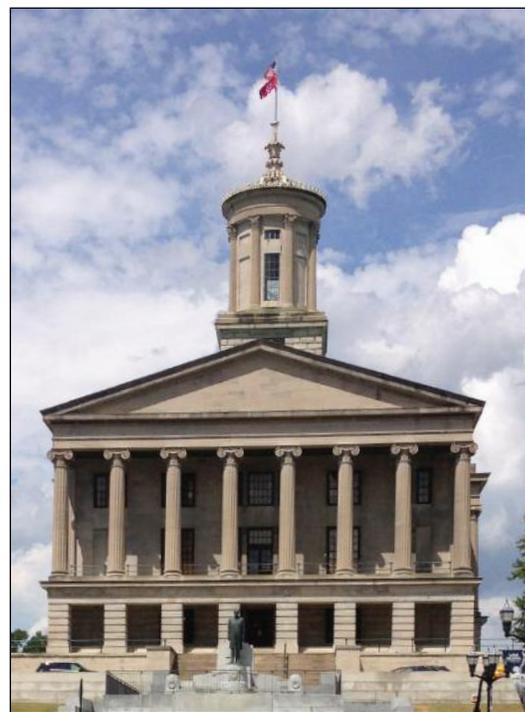
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## LEGISLATIVE UPDATE

The 109th General Assembly convened on January 13, 2015, and adjourned on April 22, 2015. Several bills impacting the Board and its registrants were introduced in the General Assembly this year. These bills included:

- Senate Bill (SB) 0081/House Bill (HB) 0071, which amended Tennessee Code Annotated, Title 62, Chapter 2, to authorize the Board to deny certain certificates of registration to persons with felony convictions and to remove certain board notifications to governmental entities when revoking or suspending certificates of registration. The bill also amends the engineering statutes to remove the requirement for engineer intern candidates to apply for admission to the Fundamentals of Engineering (FE) examination, and to delete an obsolete provision regarding payment of a reexamination fee. This bill passed and became Public Chapter 291.
- SB 0978/HB 0823, which increases, from \$25,000 to \$50,000, the threshold for public works projects that require a registered architect, engineer, or landscape architect in Tennessee Code Annotated § 62-2-107. This bill passed and became Public Chapter 403.

Legislation may be viewed and tracked on the General Assembly's website ([www.capitol.tn.gov](http://www.capitol.tn.gov)). Public Acts are available on the Secretary of State's website (<http://sos.tn.gov/>).



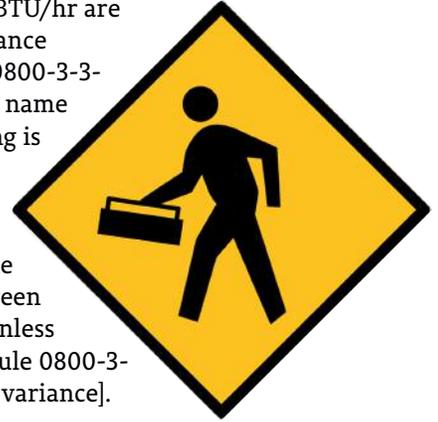
# JURISDICTIONAL REQUIREMENTS FOR BOILER AND WATER HEATER INSPECTION CLEARANCES

The Boiler Unit of the Tennessee Department of Labor and Workforce Development's Workplace Regulations and Compliance Division has requested assistance from the Board of Architectural and Engineering Examiners to share information regarding the correct inspection clearance for the placement of boilers and water heaters in new construction and buildings undergoing renovations where the boiler or water heater size or placement has changed.

The jurisdiction mandates that boilers and water heaters 100,000 BTU/hr of heat input and above (including wall-mounted instantaneous water heaters) submit an "Application for Permission to Install" so that these items can be registered and inspected. Those units 200,000 BTU/hr and above have the additional requirement of being built to the ASME Code of Construction, while those less than 100,000 BTU/hr are exempt from registration and inspection.

The inspection clearance required during installation set forth by both the National Board Inspection Code [NBIC 2.3.3 Clearances] and the Tennessee Boiler Rules and Regulations [Rule 0800-3-3-.04(13) Clearance] is three feet. There are additional requirements for boilers placed in a battery or with top-opening manholes.

However, Case Code: BC98-03 states that potable water storage heaters (hot water heaters) that do not exceed a heat input of 400,000 BTU/hr are exempt from the clearance requirements of Rule 0800-3-3-.04(13)(a), provided the name plate and code stamping is in view or as stated in Rule 0800-3-3-.03(23). There is a minimum clearance of at least one and one-half feet between all sides of the vessel unless further permitted in Rule 0800-3-3-.04(13)(b) [requires a variance].



Commonly construction/renovation plans do not provide for the 18 inch inspection clearance required by the jurisdiction. Often improper alternative clearances suggested in accordance with the manufacturer's recommendations are used due to the absence of clearly stated jurisdictional requirements. Consequently, improperly installed items have to be relocated, as well as associated piping and equipment, delaying construction and greatly adding to project cost.

Compounding the problem is that some designs don't provide equipment areas large enough to accommodate the items being installed or moved. Rooms are often overcrowded with other equipment that has also not properly been accounted for. Further compounding the problem are designs submitted from firms outside of Tennessee who are not familiar with these requirements.

The Boiler Unit appreciates the Board of Architectural and Engineering Examiners sharing this information with those who are involved in boiler installations, and we invite you to view updates, regulations, and permitting information at <http://www.tn.gov/workforce/article/boilers>.

## IDP STREAMLINE WENT INTO EFFECT JULY 1

On July 1, 2015, the National Council of Architectural Registration Boards (NCARB) streamlined the Intern Development Program (IDP) by no longer requiring elective hours. Effective July 1, the IDP requires 3,740 total hours defined by the existing 17 experience areas. Tennessee's laws and rules currently require a minimum of three (3) years of architectural experience and completion of IDP for registration as an architect (see Tenn. Code Ann. § 62-2-501 and Rule 0120-01-11). Although the Tennessee Board will recognize applicants with 3,740 hours as having completed the IDP requirement, additional experience may be necessary in order to meet Tennessee's minimum experience duration requirement. NCARB recommends that interns continue to report all experience. Doing so will help facilitate licensure and reciprocity in jurisdictions like Tennessee that require additional experience. Visit [www.ncarb.org](http://www.ncarb.org) for more information.

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# NCARB ACCEPTS THIRTEEN SCHOOLS FOR “INTEGRATED PATH” TO LICENSURE

As part of its ongoing efforts to facilitate architectural licensure, the National Council of Architectural Registration Boards (NCARB) has accepted proposals from thirteen (13) architecture schools to implement an integrated path to licensure within academic programs accredited by the National Architectural Accrediting Board (NAAB). This initiative will result in a more structured experience for students enrolled in an NCARB-accepted path that offers the ability to complete the requirements for architectural licensure at the time of graduation. The NCARB Integrated Path initiative invites programs accredited by the NAAB to propose approaches that would result in completing the requirements of the Intern Development Program (IDP) and the opportunity to take each division of the Architect Registration Examination® (ARE®) before graduation. Passing all ARE divisions prior to graduation is not required.

The acceptance of initial participants culminates a two-year effort of the Council’s Licensure Task Force (LTF) to design an integrated path framework that promotes individual academic program flexibility while addressing all regulatory requirements for architectural licensure. The LTF, composed of licensing board members, former presidents of related architectural organizations, recently

licensed architects and aspiring architects, deans and instructors, and members of the public, reviewed existing programs requiring experience as a pre-graduation requisite and conducted a Request for Interest & Information and a formal Request for Proposals as part of its deliberations.

NCARB has established a new Integrated Path Evaluation Committee (IPEC) to oversee the ongoing work of this initiative. It is anticipated that the IPEC will continue to coach accepted programs, promote engagement with jurisdictional licensing boards regarding necessary law or rule changes to incorporate integrated path candidates, and oversee the acceptance of future program applicants.

The first thirteen (13) accepted schools represent a wide range of accredited B.Arch and M.Arch programs in nine jurisdictions, and are split between public and private institutions. Each program will implement the integrated path according to the schedule developed with their administration and faculty. Starting dates may vary from school to school. Integrated path students in each program will be part of existing accredited degree programs. A list of accepted programs is available on the NCARB website ([www.ncarb.org](http://www.ncarb.org)).

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## UPDATE ON NATIONAL COUNCIL ACTIVITIES

The Tennessee Board of Architectural and Engineering Examiners continues to participate in meetings of the following national regulatory councils: the National Council of Architectural Registration Boards (NCARB), the National Council of Examiners for Engineering and Surveying (NCEES), the Council of Landscape Architectural Registration Boards (CLARB), and the Council for Interior Design Qualification (CIDQ). The national councils assist member boards by developing uniform national examinations and model laws and regulations, among other responsibilities.

The following issues were discussed at the NCARB Annual Meetings in Philadelphia, Pennsylvania on June 18-22, 2014, and in New Orleans, Louisiana on June 17-20, 2015:

- **Proposed BEA Changes:** In 2014, annual meeting attendees received an overview of proposed changes to streamline the Broadly Experienced Architect (BEA) program. The BEA program allows applicants to demonstrate their learning through experience to meet the education requirements of the NCARB Education Standard. A resolution was presented at the 2015 Annual Meeting that would have amended the Certification Guidelines to discontinue the BEA Program and replace it with alternative education and experience requirements for certification. The original resolution would have required five (5) years of continuous licensure in any U.S. jurisdiction and documentation of work experience verified in

accordance with the requirements of the Intern Development Program (IDP). Applicants with a pre-professional degree in architecture would have been required to document two times (2x) the experience requirement of IDP; all other applicants (including those without a college degree) would have been required to document five times (5x) the experience requirement of IDP. An amendment passed requiring applicants to hold a four (4) year baccalaureate degree, and requiring applicants with a degree in a field other than architecture to document three times (3x) the experience requirement of IDP. However, the amended resolution failed to obtain the absolute majority of votes required by the Bylaws and did not pass. NCARB will continue to engage its members on this issue in order to reach a consensus view on the

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## UPDATE ON NATIONAL COUNCIL ACTIVITIES *continued from page 4*

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revised criteria for certification.

- **BEFA Changes:** In 2014, attendees also received an overview of proposed changes to streamline the Broadly Experienced Foreign Architect (BEFA) program. Under the current BEFA program, foreign architects must have a recognized education credential and seven years of post-licensure experience in their home country. They are also required to submit an experience dossier and participate in an interview. A resolution passed at the 2015 Annual Meeting to discontinue the current BEFA program and amend the requirements for certification of foreign architects to require foreign architects to record IDP experience and pass the Architect Registration Examination (ARE) in order to obtain an NCARB Certificate. This change will take effect on July 1, 2016.
- **IDP Changes:** Proposed changes to the Intern Development Program (IDP) were also presented at the 2014 Annual Meeting. The proposed changes included the removal of the elective hour requirement (thus requiring 3,740 core hours) and a modification of the framework to reduce the experience areas to 6 areas corresponding to the 6 divisions of ARE 5.0. These changes were later approved by the NCARB Board of Directors (see the “NCARB Update” article in the 2014 newsletter and the “IDP Streamline” article in this newsletter for additional details).

Prior to the 2014 annual meeting, the Board of Directors approved a proposed change to allow interns to earn partial IDP credit for valid work experience not previously reported within the six-month timeframe specified by the reporting requirement. This change became effective on July 1, 2014.

At the 2015 Annual Meeting, delegates were presented with an outline of a “Broadly Experienced Intern” proposal that would provide a new experience path for professionals with valid work experience that falls outside the limits of the Intern Development Program (IDP). NCARB is currently seeking feedback from member boards to help shape a final proposal.

- **Future Title Task Force:** A Future Title Task Force was formed to review the terminology used for those who are architect candidates and those who are licensed architects. The task force recommended the sunset of the term “intern” while reserving the title “architect” for licensed persons. NCARB has begun the process of removing the term “intern” from program names and publications.
- **Bylaws Changes:** A resolution passed in 2014 amending the qualifications for serving as a regional director on the NCARB Board of Directors in the Bylaws. Effective March 1, 2017, all regional

directors and officers must hold an active NCARB Certificate. Another resolution passed in 2015 amending the Bylaws to allow public members serving on member boards to serve as Public Director members on the NCARB Board of Directors.

The following issues were discussed at the NCEES Annual Meetings in Seattle, Washington on August 20-23, 2014, and in Williamsburg, Virginia on August 19-22, 2015:

- **Decoupling of Experience and Examination Requirements:** A motion passed at the 2014 Annual Meeting to amend the Model Law to disconnect (or decouple) the experience requirement from the taking of the PE exam. This change would allow candidates to sit for the PE exam before completing the required experience.
- **Continuing Education Registry:** A motion passed in 2014 to task NCEES with developing a continuing education registry that will allow registrants to upload, track, and maintain a record of continuing education activities.
- **Additional Education Requirements for Engineering Licensure:** A position statement on future engineering education requirements for licensure as a professional engineer was adopted at the 2015 Annual Meeting (NCEES Position Statement 35). The development of the position statement follows a 2014 vote to remove from the NCEES Model Law and Model Rules the additional education requirements for engineering licensure that were set to take effect in 2020 in order to allow work on implementation to continue without a set effective date. These requirements called for an engineering licensure candidate to obtain a master’s degree or its equivalent before initial licensure.
- **Expanding International Use of Exams:** In 2014, the Council voted to authorize the negotiation of a contract for examinations and/or examination services between NCEES and the Chinese Institute of Engineers (CIE) for offering the examinations in Taiwan. At the 2015 Annual Meeting, delegates voted to authorize the negotiation of a contract with the Egyptian Engineering Syndicate to offer the Fundamentals of Engineering exam in Egypt to graduates of the country’s engineering programs, regardless of whether they are accredited by the ABET Engineering Accreditation Commission.
- **Promoting the Surveying Profession:** In 2015, member boards voted to fund two initiatives to promote surveying education and licensure. NCEES member boards voted to fund a meeting of surveying organizations to discuss how to best attract a diverse cross section of people to the profession. The group will recommend additional outreach opportunities to promote surveying as a career, including potential collaborations with

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## UPDATE ON NATIONAL COUNCIL ACTIVITIES *continued from page 5*

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other organizations. Delegates also voted to implement a new initiative to support surveying education at the college level. The program will recognize up to ten professional surveying programs of distinction each year, awarding each up to \$10,000.

- **Structural Engineering Licensure:** A 2015 motion calling for a committee or task force to be charged with amending the Model Law and Model Rules to provide for a protected Structural Engineer title and restricted structural engineering practice failed by a narrow margin (32-31).

The following issues were discussed at the CLARB Annual Meeting in Reston, Virginia on September 24-27, 2014:

- Member Board Executives (MBEs) discussed positive regulatory public relations and communications, streamlining the licensure process, emerging trends in regulation, and best practices. Following the exchange, MBEs met at CLARB headquarters and received information on Council Records, paths to CLARB certification, the Landscape Architect Registration Examination (LARE) registration and exam process, and online resources for member boards.
- A proposal to simplify CLARB's Exam Eligibility Standard was presented. Under this proposal, exam candidates must either hold an accredited degree in landscape architecture or be approved by a member board.
- Attendees participated in a discussion of how changing demographics (a bigger, older, and more diverse population) will impact the future of licensure and regulation.
- Critical Conversations addressed (1) proposed changes to CLARB governance (e.g., adding a MBE to the CLARB Board of Directors, adding an "at-large" member to the Board of Directors, changes to the Nominations Committee, and either eliminating the Alternate Regional Director position or redefining the position), (2) a "Model Board" proposal to encourage strategic thinking among boards, and (3) LARE data and trends. It was revealed that most exam candidates (89%) have an accredited degree in landscape architecture, and most candidates wait two or more years to start the LARE. Many candidates are unaware that they can sit for the LARE immediately after graduation in most jurisdictions (including Tennessee). Additionally, most candidates take only one exam section at a time. Section 4 (Grading, Drainage and Construction Documentation) has the lowest pass rate.
- Attendees participated in a mini-forum on the future of licensure, during which drivers and trends in education, experience, and examination were

discussed. Member Board Members also participated in a full-day training program delivered by the Council on Licensure and Regulation (CLEAR) designed to prepare regulatory board members for effective service.

The following issues were discussed at the CIDQ Annual Council of Delegates Meeting in Albuquerque, New Mexico on November 14-15, 2014:

The theme for the meeting was "Forty and Forward," marking the 40th anniversary of the National Council for Interior Design Qualification (NCIDQ) examination.

- **NCIDQ Examination Updates:**
  - o The number of candidates sitting for the Interior Design Fundamentals Exam (IDFX) and Interior Design Professional Exam (IDPX) has increased, while the number of Practicum candidates remains steady.
  - o Translation of the exam into French is underway. The first French exam will be offered in fall 2015.
  - o The Practicum exam will be computerized in 2017. Like the next version of the ARE (ARE 5.0), the computerized Practicum exam will include new item types (e.g., "drag and drop" questions).
- **2014 Accomplishments:**
  - o A practice analysis was conducted, and over 700 responses were received. The practice analysis will be used to guide exam development. Over \$10,000 was raised in the "Forty and Forward" campaign, which helped fund the practice analysis.
  - o Several technology improvements were announced, including changes to MyNCIDQ for exam candidates and certificate holders and new software being used to ensure fair grading of Practicum exams. All CIDQ data is now "cloud-based."
- **Proposed Bylaws Changes:** Three (3) proposed changes to the bylaws were reviewed that are intended to expand the pool of candidates for CIDQ officer positions.
  - o The first proposed revision would decrease the number of CIDQ Directors that must have served as a member of a CIDQ member board.
  - o The second proposed revision would expand the officer qualifications to allow an officer candidate to be the Chair of a Council committee or task force or to have been president of a national interior design professional organization, such as the American Society of Interior Designers (ASID) or the International Interior Design Association (IIDA).

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# BOARD AWARDS **\$300,000** IN GRANTS TO **12** STATE UNIVERSITIES



Monday, April 27, 2015

**NASHVILLE – The Tennessee Department of Commerce and Insurance announces today grants totaling \$300,000 have been awarded to 12 Tennessee universities from the Tennessee Board of Architectural and Engineering Examiners.**

Since the program began in 2002, the Board has awarded over \$2.9 million in grant funds. Funding is provided annually from the Board's revenues or reserve funds. The Tennessee General Assembly and Governor Bill Haslam authorized funding for the grants (2014 Public Acts, Chapter 919, Section 7, Item 26).

"The Board appreciates the opportunity to assist in the education of architecture, engineering, landscape architecture, and interior design students," said John Cothron, Board Executive Director. "Education is the foundation for developing the knowledge and skills needed to practice the design professions and to protect the public's health, safety and welfare."

Grant funds cover a range of uses including purchasing computers, laboratory or instructional equipment, library resources, or paying the costs of intern development program fees or examination fees for students in accredited architectural, engineering, landscape architectural and interior design programs.

Universities receiving grant funds this year include:

- Christian Brothers University – \$14,477 to the School of Engineering. Funds will be utilized to purchase a horizontal band saw, materials testing equipment, a glass digital temperature controller, microprocessor stations, and flowmeters.
- Lipscomb University – \$13,501 to the College of Engineering. Funds will be utilized to pay Fundamentals of Engineering (FE) examination fees for students and to purchase 3D

printers, 3D digitizers, and a servomotor, which is used to introduce students to basic control concepts. The FE exam is typically the first step in the process leading to licensure as a Professional Engineer (PE), and may be taken by students in the senior year of an engineering curriculum.

- Middle Tennessee State University, – \$1,372 to the College of Behavioral and Health Sciences for the interior design program. Funds will be utilized to purchase LED light meters and reference materials.
- O'More College of Design—\$1,342 to the School of Interior Design. Funds will be utilized to purchase an interactive projector for a lecture room.
- Tennessee State University—\$18,867 to the College of Engineering. Funds will be utilized to purchase a solar concepts learning system, a light meter, infrared thermometer kits, and desktop computers.
- Tennessee Technological University—\$39,813 to the College of Engineering. Funds will be utilized to purchase video conferencing equipment to facilitate distance education partnerships with other higher-education institutions in Tennessee.
- Union University—\$12,306 to the Department of Engineering. Funds will be utilized to pay FE examination fees for students and to purchase a 3D printer.
- University of Memphis—\$21,624 to the College of Engineering; \$22,798 to the College of Communication and Fine Arts for the architecture and

interior design programs. Funds will be utilized to purchase a four-axis milling machine for the College of Engineering, and enhancements to instructional and presentation spaces for the architecture and interior design programs.

- University of Tennessee-Chattanooga—\$26,036 to the College of Engineering and Computer Science; \$1,593 to the College of Health, Education and Professional Studies for the interior design program. Funds will be utilized to purchase equipment and software for mechanical engineering classes and laboratories, and cameras with accessories for the interior design program.
- University of Tennessee-Knoxville—\$43,095 to the College of Architecture and Design; \$42,973 to the College of Engineering. Funds will be utilized to purchase a desktop scanning electron microscope for the College of Engineering, and computer software, a plotter, and large LCD displays for the College of Architecture and Design.
- University of Tennessee-Martin—\$14,822 to the College of Engineering and Natural Sciences. Funds will be utilized to purchase a tool room mill that will be used to make parts used in student and faculty projects and to teach courses that deal with computer numerical control (CNC) technology.
- Vanderbilt University—\$25,381 to the School of Engineering. Funds will be utilized to pay FE examination fees for students and to purchase an experimental photo-elastic stress measurement system.

## REVISED POLICY FOR REVIEW OF SPRINKLER SHOP DRAWINGS

**The following revised policy was adopted by the Board on June 4, 2015:**

A fire protection sprinkler system contractor registered pursuant to Tennessee Code Annotated, Title 62, Chapter 32, Part 1, through its responsible managing employee, shall submit shop drawings of proposed fire protection sprinkler system installations. After receipt of the shop drawings, the authority having jurisdiction (AHJ) will review the drawings and will approve or disapprove the shop drawings.

This policy is not intended to circumvent the requirement for plans prepared and sealed by registered architects and/or engineers where appropriate; rather, the policy is intended to allow the sprinkler system contractor to submit shop drawings to provide for the installation of the sprinkler systems. These drawings shall be coordinated with the architect or engineer of record. The architect or engineer of record shall always provide the design intent of the system and shall review and approve or disapprove the shop drawings submitted by the sprinkler system contractor. Attached and incorporated herein by reference is a copy of the policy of the Tennessee State Board of Architectural and Engineering Examiners which sets forth the architect's or engineer's design responsibilities concerning sprinkler drawings. The goal is for the design drawings to provide sufficient information to indicate compliance with applicable building codes and ensure that the builder or installing contractor will not be required to make engineering decisions. The registered architect or engineer shall also provide design from the point of

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The Board and Staff wish to extend our sympathies to the families and friends of these individuals who have honored their professions:

### ARCHITECTS

James P. Bales, #11764,  
Chattanooga, TN  
Jerry Lee Bond, #19508,  
Johnson City, TN  
Sho-Ping Chin, #104825, Boston, MA  
Michael Graves, #21456, Princeton, NJ  
Joseph John Herman, #104913,  
Marietta, GA  
Earl M. Kidd, #16139, Birmingham, AL  
Oscar T. Marshall III, #5734,  
Memphis, TN  
Hugh V. Northern, Jr., #5958,  
Memphis, TN  
Robert L. Ratte, #19458, Ridgefield, CT  
Arnold Schwarzbart, #8890,  
Knoxville, TN  
John K. Warriner, Jr., #14639,  
Jonesboro, AR

### ENGINEERS

Randall M. Atchley, #22231,  
Knoxville, TN  
Charles D. Barnes, Jr., #100595,  
Lilburn, GA  
Gregg R. Beitel, #22958,  
Murfreesboro, TN  
John D. Bennett, #7334, Moore, SC  
Robert R. Bigelow, #9931, Oak  
Ridge, TN  
Richard W. Burow, #6827,  
Kingsport, TN  
Robert L. Cangelosi, #113188,  
Baton Rouge, LA  
William J. Coad, #21385, Saint  
Louis, MO  
Aldo F. Colandrea, #114401,  
Southgate, MI  
Otho E. Craft, Jr., #22492, Wise, VA  
Willard W. Diel, #7749, Gallatin, TN

Charles D. Ferguson, #102002,  
Dyersburg, TN

Ottis H. Freeland, Jr., #4050,  
Savannah, TN

William A. Goodwin, #2679,  
Franklin, TN

Dewey J. Gray, #9085, Culleoka, TN

Richard K. Harsh, #109676,  
Ravenna, OH

Raymond A. Haynes, #3940,  
Knoxville, TN

Dennis T. Kenna, #15190,  
Knoxville, TN

John F. Killian, #21036, Nashville, TN

William Edward Krauss, PhD,  
#103768, Madison, TN

Richard B. McCain, #113728,  
Labadie, MO

Charles P. McCann, #13462,  
Nashville, TN

William F. McGee, Jr., #19192,  
Midwest City, OK

David L. McKenzie, #104574,  
North Kansas City, MO

Roger Martin Millar, Sr., #110216,  
Germantown, TN

Roger A. Neidel, #16062, Thompsons  
Station, TN

George W. Oliphant, #2367,  
Kingsport, TN

John H. Pashley, #8486,  
Oak Ridge, TN

Robert William Patricoski, #114102,  
Glen Ellyn, IL

Joseph N. Payne, #4975, Nashville, TN

Raymond B. Pohlman, Jr., #4745,  
Memphis, TN

Harold F. Polston, #3878,  
Nashville, TN

Lloyd F. Shook, #18358,  
Collierville, TN

John A. Smith, #7932, Panama City, FL

Dean A. Waters, #10045,  
Vonore, TN

Lee R. Willis, #11404,  
Knoxville, TN

Joseph Augustus Yarid, #107071,  
Winter Park, FL

If you have a name that should be recognized in this section, please contact the Board office.



Joyce Shrum, who processed the architect, landscape architect, and interior designer applications for the Board, retired in April 2015 after 22 years of state service. Wanda Garner ([wanda.garner@tn.gov](mailto:wanda.garner@tn.gov)) and Frances Smith ([frances.p.smith@tn.gov](mailto:frances.p.smith@tn.gov)) have assumed her duties. Joyce was a pleasure

to work with, and she will be greatly missed by the Board and staff. Enjoy your retirement, Joyce!

Rule changes approved by the Board at the August 14, 2013, rulemaking hearing became effective on May 1, 2015 (with the exception of Rule 0120-01-.06 Applications – Engineer Intern, which has been stayed pending the correction of an error). A summary of the rule changes and modifications made at the rulemaking hearing were published in the Spring/Summer 2013 and Fall/Winter 2013 Design Lines newsletters. The text of the rulemaking hearing rules is available on the Board’s website (<http://www.tn.gov/commerce/section/architects-engineers>).

At the June 4, 2015, Board meeting, Robert G. Campbell, Jr., P.E., was elected to serve as Board Chair; Susan K. Ballard,

ASID, R.I.D., NCIDQ, was elected to serve as Vice Chair; and Frank W. Wagster, AIA, was elected to serve as Secretary. All officers will serve from July 1, 2015, to June 30, 2016.

Richard Bursi, P.E. (Memphis, Tennessee) was recently reappointed to serve as an associate engineer member representing West Tennessee. Mr. Bursi will serve until June 30, 2019.

Robert Campbell, Jr., P.E. (Knoxville, Tennessee) was recently reappointed to serve as an engineer member representing East Tennessee. Mr. Campbell will serve until June 30, 2019.

Frank W. Wagster, AIA (Jackson, Tennessee) was recently reappointed to serve as an architect member representing West Tennessee. Mr. Wagster will serve until June 30, 2019.

## REVISED POLICY

*continued from page 8*

service—that point at which the system is dedicated solely to fire protection—to the building.

This policy is also not intended to result in the fire protection sprinkler system contractor being assigned the architect’s or engineer’s design responsibilities concerning sprinkler drawings. The design architect or engineer shall not require the sprinkler contractor to provide shop drawings sealed by a registered engineer. The designer shall not assign the engineering responsibilities to the sprinkler contractor. This is not intended to prevent a fire protection sprinkler system contractor from providing design-build services.

## Formal Disciplinary Actions Taken by the Board

**James C. Bundy, R.A. #21096**  
(*revoked*) *Abingdon, Virginia*

**VIOLATION:** Practice outside area(s) of competence. Rule 0120-02-.03.

**PENALTY:** Voluntary revocation of certificate of registration.

**FINAL ORDER:** December 4, 2014

**Jerald Emery Hasbrouck, P.E.**  
#113874  
*Hasbrouck Engineering, Inc.,*  
*Engineering Firm #6780*  
*Columbus, Ohio*

**VIOLATION:** Disciplined in another jurisdiction. Tenn. Code Ann. § 62-2-308(a)(1)(B) and rule 0120-02-.07(5)(b).

**PENALTY:** Indefinite suspension of registration pending appeal of decision in home state.

**CONSENT ORDER:** March 13, 2015

**Sarfraz Hussain Kathawala, P.E.**  
#100621  
*Germantown, Tennessee*

**VIOLATION:** Practiced engineering on an expired certificate of registration. Tenn. Code Ann. §§ 62-2-101 and 62-2-105.

**PENALTY:** \$500 civil penalty.

**CONSENT ORDER:** March 2, 2015



# Information On Examinations



The Board would appreciate your sharing information about these professional examinations with interns in your office.

## ARCHITECTURE

Interns wishing to sit for the ARE before completing the Intern Development Program (IDP) must file an application for early exam eligibility with the Board and request that NCARB transmit a record summary to the Board office confirming that they have enrolled in IDP. Upon completion of IDP, a complete NCARB record must be transmitted to the Board and references must be submitted before registration may be granted.

### Exam Results (9/1/14-9/7/15)

	Total	Pass	% Pass
Constr. Doc. & Services	74	49	66%
Prog., Planning & Practice	84	58	69%
Structural Systems	52	33	63%
Bldg. Design & Const. Sys.	54	41	76%
Schematic Design	73	64	88%
Site Planning & Design	61	47	77%
Building Systems	62	48	77%

## ENGINEERING

- Fundamentals of Engineering Examination (FE) –

The FE exam is now offered in a computer-based format. The exam is given during assigned windows of time at Pearson VUE test centers rather than on specific April and October dates. Also, the FE exam is now delivered as seven freestanding, discipline-specific exams (Chemical, Civil, Electrical and Computer, Environmental, Industrial, Mechanical, and Other Disciplines), and exam fees are paid directly to NCEES. Examinees continue to apply to the Board for authorization to sit, although application deadlines no longer exist since the exam is offered throughout the year. The FE Reference Handbook and exam preparation materials are available at [www.ncees.org](http://www.ncees.org).

- Principles and Practice of Engineering (PE) and Structural Engineering Examinations –

The application deadline for new applicants for the spring Principles and Practice of Engineering/Structural Engineering exams is December 1. The fall deadline is June 15. All supporting

documents (references, transcripts, etc.) are due in the Board office within thirty (30) days after the application deadline. The exams will be given in Nashville, Knoxville, and Memphis on:

April 15-16, 2016  
October 28-29, 2016

To facilitate scheduling of the exams, retake requests should be received by the Board office by February 1 for the spring exam and by August 15 for the fall exam. Registrants wishing to take other exam disciplines must submit an application to add an exam discipline (available on the Board's website) by January 1 for the spring exam and by August 1 for the fall exam. All exam fees are now paid directly to NCEES when reserving a seat for the exam.

Following approval by the Tennessee Board to sit for an exam, applicants must register with NCEES at [www.ncees.org](http://www.ncees.org) to pay the exam fee and reserve a seat for the exam. For information regarding exam study materials, which calculators are permitted in the examination room and exam specifications, please visit the NCEES website.

### Exam Results

#### Fundamentals of Engineering

	Total	Pass	% Pass
January-December 2014	326	240	74%
January-April 2015	215	153	71%

#### Principles and Practice of Engineering

	Total	Pass	% Pass
October 2014			
Chemical	8	4	50%
Civil	110	58	53%
Control Systems	4	3	75%
Electrical & Computer	35	16	46%
Environmental	6	1	17%
Fire Protection	2	0	0%
Mechanical	34	24	71%
Metallurgical & Materials	2	1	50%
Mining & Mineral Processing	1	0	0%
Nuclear	3	1	33%
Petroleum	1	1	100%
All Disciplines	206	109	53%

	Total	Pass	% Pass
April 2015			
Agricultural & Biological	2	2	100%
Chemical	5	2	40%
Civil	106	47	44%
Electrical & Computer	27	13	48%

Environmental	6	1	17%
Industrial	2	1	50%
Mechanical	25	12	48%
All Disciplines	173	78	45%
Structural Engineering (16-hour)			

	Total	Acceptable	% Pass
October 2014			
Vertical Component	9	3	33%
Lateral Component	11	3	27%

	Total	Acceptable	% Pass
April 2015			
Vertical Component	5	0	0%
Lateral Component	6	1	17%

Note: To pass the Structural exam, an acceptable result must be obtained on both the vertical and lateral components. Three (3) candidates passed the Structural exam in the October 2014 and April 2015 administrations.

National pass rates are available on the NCEES website ([www.ncees.org](http://www.ncees.org)).

## LANDSCAPE ARCHITECTURE

The Landscape Architect Registration Examination (LARE) is now completely computerized, and candidates register directly with the Council of Landscape Architectural Registration Boards (CLARB) for all exam sections following approval by the Board to sit for the exam. The LARE is divided into four sections:

- Section 1—Project and Construction Administration
- Section 2—Inventory and Analysis
- Section 3—Design
- Section 4—Grading, Drainage and Construction Documentation

Additional information regarding the LARE, including current fees and exam dates, is available at CLARB's website ([www.clarb.org](http://www.clarb.org)).

	Total	Pass	% Pass
Exam Results (12/14)			
Section 1	2	2	100%
Section 2	1	1	100%
Section 3	2	1	50%
Section 4	4	3	75%

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# NEW REGISTRANTS

*The Board and staff congratulate the following registrants who passed their respective professional examinations and were registered between July 1, 2014, and June 30, 2015:*

## **ARCHITECTS** (Architect Registration Examination)

Michael Leo Benner  
Lauren Rogers Bush  
Matthew Aaron Cox  
Christopher Michael Davis  
Susan Scott Davis  
Julie Ann De Luna  
Katlyn Frances Dench  
William Anthony Doyle IV  
Christopher Richard Green  
Kristin Elsbeth Harney  
Clinton Hale Harris  
Lauren Ashley Harris  
Katherine Bidwell Haywood  
Aaron Joseph Heidel  
Joshua David Johnson  
Forrest Hunt Kirkpatrick  
Sophorn Kuoy  
Elliott Lambert  
Garret Lee Lukens  
Brian Andrew Martinelli  
Eric William McGinnis  
Matthew Brian Noll  
Matthew Brandon Parks  
Peter Lloyd Paul IV  
James Gregory Pruitt  
Emily Holland Dover Saylor  
James Bradford Schmiedicke  
Anna Daley Smith  
Fleming Wood Smith IV  
Daniel Raymond Tansey  
Jacob S. Thomas  
Jason Andrew Tucker  
Scott Alan Wenz  
Stephanie O'Neal Wilbanks  
Michael Wiley Winter  
Janie Marie Wright

## **ENGINEERS** (Principles and Practice of Engineering Examinations)

Omar Acevedo Sepulveda  
Duncan Blake Adrian  
Nathan Grey Ainsworth  
Dana Marie Alexander  
Mario Christopher Andriulli  
Daniel Michael Bailey  
Neill Allen Belk  
Brandon Michael Berger  
Paul David Bess  
Bryan Elliott Biss  
Stefan Josef Bobot, Jr.  
Bryan Lewis Boggs  
Travis John Bonar  
Michael Tyler Boone

Brent Edward Borden  
Charles Cory Borum  
Isaac Lane Bosley  
Amanda Kate Bowen  
Nicholas Daron Brabson  
Craig Stephen Bradford  
Chad Ellison Branam  
Thomas Coty Brett  
Daniel Albert Brough  
Barry Cecil Brown  
Jason Thomas Brunner  
Justin Michael Bryan  
Lindsay Brooke Bryant  
Matthew Winston Bullard  
Edward Caldwell Burchett  
Ryan Albert Calvy  
Karen Teal Carboni  
David Luis Carrasco  
Michael Weston Casto  
Ryan Andrew Chastain  
Christopher Robin Cherry  
Ryan Lucas Clark  
Keri Leigh Clayton  
Adam Christopher Cloar  
David Raymond Coan  
Richard Logan Colbert  
Zackary Robert Cole  
William Christopher Coleman  
Nathan Lloyd Conard  
John R. Cook  
Joseph Alexander Cooper  
John William Crawford  
Cody Gary Crews  
Darla Dora Dare  
Kristen Michelle Dehaven  
Meredith Anne Neal Delk  
Andrew Paul Derenski  
James Andrew Dickenson  
Robert Scott Dillingham  
Jason Daniel Dittrich  
Brian David Donlon  
John Edwin Drewnowski III  
Brandon Lee Duggan  
Cory Ray Duggin  
Bryan Scott Embry  
Lynn Douglas Evans  
Jason Daniel Feuge  
Sarah Beth Fick  
Kevin Thomas Fix  
Brian Collins Flagg  
Mason Thomas Floyd  
Mary Elizabeth French Ewers  
Ryan Matthew Frye  
Laura E. Fulton  
Andrew Philip Gillespie  
Rebecca M. Glaspie  
Matthew Alan Goranson  
Travis Charles Graves

India Lynn Gregory  
Alan Wade Grissom  
Cayce Madison Grissom  
Tyler Watson Gross  
Jeremy Thomas Haley  
Christopher Lawrence Hall  
Justin Christopher Hall  
Daniel Maurice Hanks  
Richard Aaron Hanks  
Draghina Haures  
Aaron Michael Henry  
Paul Lester Hensley  
Dallas Andrew Hinds  
George Claiborne Hoover  
Ryan Adam Hopson  
Josh Edward Horton  
Sharon E. Howard  
Andrew Allen Hughes  
Joshua Landon Hughes  
Evans Culwell Hunt  
Drew Wilder Irons  
Eric Steven Jackson  
Tyler Clark Johnson  
Brent Allen Jones  
Johnathon Douglas Jones  
Jeffery Paul Karafa  
Garrett Anthony Karnowski  
Matthew Daub Keiter  
Kyle Bradley Keith  
Lina S. Khoury  
Nicholas Anthony Krug  
Matthew C. Kuykendall  
William Joseph Laine  
John Frank Langford, Jr.  
Thomas McKager Lawhorn  
Kristen Mae Leffel  
Ryan James Leister  
Roger Lee Lemond  
Matthew Wren Lowder  
Jonathan Robert Lund  
Arnold Blaine Lynch, Jr.  
Joshua Miles Marshall  
Joseph Daniel Martek  
Andrew James Mathews  
Ryan Matthew McCaulley  
Matthew Lee McDaniel  
Loren Vidnovic McDonald  
Mary Denise McFarlin  
Katherine Erin McGinnis  
Kyle R. McKinney  
Robert Glenn McRee  
Martin Luke Medley II  
Neel Harshad Mehta  
Nathan H. Melson  
Jeffrey Alan Merryman  
Robert J. Milazzo  
Nicholas Karl Miller  
James Michael

Millraney  
Matthew Eric Moore  
Zachary Lee Moore  
Joshua David Murphy  
Houston H. Neal  
Joshua Wayne Neal  
Philip Hollis Neal, Jr.  
Andrew Nguyen  
Michael Dillon Nix  
Brandon Shane Noe  
Robert Erwin Noe  
Jordan Lee Panter  
David Jason Perry  
Spero Michael Peters  
Ryan Anthony Philpott  
Ryan Edward Pickett  
William Tod Pinson  
Emma Campbell Pitts  
Justin Kendall Plaisted  
Melissa Anne Portell  
Ian Alton Powell  
Bryan Michael Rainey  
Keith Michael Rainey  
Elyse Nicole Rester  
Joshua Holman Richardson  
Jeremy Ray Ricks  
Brian John Rivera  
Ashley Lanette Rose-Nalin  
Kabir Singh Sandhu  
Matthew D. Schlicker  
Steven M. Sellers  
Joshua Michael Sharp  
Steven Ross Sherwood, Jr.  
Emily Dawn Shrum  
Steve V. Skubey  
Adam Cullen Sloan  
Nathan Daniel Stewart  
Christopher Francis Stoltz  
Matthew Clement Storey  
Adam Chance Sudberry  
Derek Scott Thompson  
Christopher Leo Tjon  
William Brad Tomlinson  
Ryan Joseph Trentham  
Gina Marie Trupiano  
John Whitnell Tucker  
Baskar Vairmohan  
Jacob Julius Van Dyke  
Ricky Adam Vance  
Scott Richard Waite  
Sarah Anne Walker  
David Benjamin Wallus  
Mark Robinson Ware  
Joshua Ryan Watson  
Spencer David Whittier  
Vincent David Wicinski

*cont. page 12*

## NEW REGISTRANTS *continued from page 11*

Wallis Ashley Wimbish  
Andrew Paul Wisniewski  
Zachary Cain Wolfe  
Raymond Reese Yontz  
Jason Youngblood  
Matthias Zeiml

### LANDSCAPE ARCHITECTS (Landscape Architect Registration Examination)

Clifford Lee Brooks  
Chase Anthony Dettorre  
Jamie Marie Dickinson  
April Michelle Grant  
Micah Hargrove  
Erin Michelle Monk-Tharp  
Nathan Daniel Oliver

### REGISTERED INTERIOR DESIGNERS (National Council for Interior Design Qualification Examination)

Amy Leanne Cradic  
Jessica M. Elvert  
Adrienne Akin Faulkner  
Elizabeth Mixon Florence  
Jennifer Lynn Glass  
Adrienne Marie Glover  
Lindsay Elisabeth Maggipinto  
Tiffany Nicole Lueck Robbins  
Barrie Elizabeth Ryan  
Julie Lynn Walker  
Rebecca Denton Whitson  
Jenna Christine Wise  
Natalie Claire Wright

## Examinations *continued from page 10*

### Exam Results (4/15)

	Total	Pass	%Pass
Section 1	4	4	100%
Section 2	4	4	100%
Section 3	3	3	100%
Section 4	3	2	67%

## INTERIOR DESIGN

The National Council for Interior Design Qualification (NCIDQ) exam is offered every spring and fall. The exam is divided into three sections: the Interior Design Fundamentals Exam (IDFX), the Interior Design Professional Exam (IDPX), and a Practicum Exam (PRAC). To obtain an application for the exam, call the Council for Interior Design Qualification (CIDQ) at 202-721-0220, or visit [www.ncidqexam.org](http://www.ncidqexam.org). After passing the exam and becoming NCIDQ certified, you may apply to the state board for registration as a registered interior designer.

## UPDATE ON NATIONAL COUNCIL ACTIVITIES *continued from page 5*

• The third proposed revision would make changes to the Nominating Committee structure.

The Board of Directors will continue to discuss these proposals, and action may be taken at the next annual meeting.

### • Other Issues:

• The Board of Directors is studying new pathways to NCIDQ Certification for educators and individuals with degrees from accredited architecture programs.

• Presentations were delivered on the importance of interior design regulation, the impact of interior design on the public's health, safety and welfare, and legislative strategies.

• Several ideas and topics were discussed during breakout sessions, including:

- The need for CIDQ to adopt and maintain model practice act language.
- Increasing the value of CIDQ membership for member boards.
- The unification of interior design professional societies.
- The development of a white paper by CIDQ and the interior design professional societies to promote practice acts.

## NEW AND PROPOSED RULES

*continued from page 2*

qualifications to a prospective or existing client or employer.

- Proposed Rule 0120-02-.07 Misconduct is amended to delete gender-specific language, to add a new paragraph (6) stating that a registrant may not utilize the seal of another registrant without the other registrant's knowledge or consent, and to delete language regarding failure to pay the professional privilege tax. Due to a change in the law, registrants who are delinquent paying the professional privilege tax now have their renewals held in abeyance without the need for a formal hearing and discipline by the Board.

A proposed rule (Rule 0120-01-.28 Military Applicants – Spouses – Expedited Registration) was filed with the Secretary of State on May 21, 2015, to provide for expedited issuance of licenses for veterans and their spouses, waiver of renewal requirements for those on active duty, and the acceptance of military education, training or experience if substantially equivalent to state standards, as required by 2013 Public Acts, Chapter 122. This rule took effect on August 19, 2015.

The complete language of the new and proposed rules is available on the Board's website:

(<http://www.tn.gov/commerce/section/architects-engineers>).

Questions regarding the rules may be directed to John Cothron, Executive Director, at [john.cothron@tn.gov](mailto:john.cothron@tn.gov).

## DID YOU KNOW?

The Board of Architectural and Engineering Examiners has a new website:

<http://www.tn.gov/commerce/section/architects-engineers>. The entire TN.gov website was recently redesigned to make it easier for you to find information.

The Frequently Asked Questions about Qualifications-Based Selection for Public Projects document has been revised and is available on the Board's website on the News and Information page.

This year's NCARB by the Numbers explores the behavior of aspiring architects on the path to licensure in an entirely new format, allowing for a more comprehensive picture of the architecture profession. Download your copy at <http://www.ncarb.org>.

## ADDRESS CHANGES

It's the rule...if you move, you need to give the Board your new mailing address within 30 days (Rules 0120-01-.27 and 0120-04-.13). We would also appreciate knowing when you change employers. This is your personal responsibility and not your employer's. We know you want to receive your license renewal notices and other important communications promptly. Address changes may be submitted by e-mail to Frances Smith at [frances.p.smith@tn.gov](mailto:frances.p.smith@tn.gov). Please provide us with your e-mail address, as well, since most of our communications are now electronic.

## Tennessee Board of Architectural and Engineering Examiners

*Robert G. Campbell, Jr., PE, Chair*  
*Susan K. Ballard, ASID, RID, NCIDQ, Vice Chair*

*Frank W. Wagster, AIA, Secretary*  
*Harold (Hal) P. Balthrop, Jr., PE*  
*Wilson Borden, Public Member*

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