The Nebraska Professional

Nebraska Board of Engineers and Architects

Volume 33, Fall 2022

University of Nebraska–Lincoln wins 2022 NCEES Engineering Education Grand Prize

NBEA Board Members and members of the winning team from UNL celebrate the award at an event in Omaha. Pictured (L to R): NBEA Director Jon Wilbeck, NBEA board members Jason Sulter S.E., P.E., and Bruce Dvorak, Ph.D., P.E.; Clarence Waters, Ph.D., UNL; student team members Matt DeCock, Alex Dukart, Ben Schnatz, Isabel Anderson, Jenna Irwin, Addie Devney, and Makenna Widholm; Jacob Bullock, mentor, Alvine Engineering, Pete Uhing, P.E., evaluator, Clark & Enersen; and Nate German, mentor, Alvine Engineering.

NCEES announced that the University of Nebraska–Lincoln is the grand prize winner of the 2022 NCEES Engineering Education Award. The university received the award for a project completed by the Charles W. Durham School of Architectural Engineering and Construction. The award jury met virtually on June 7, 2022, to select the $25,000 grand prize winner.

For the school's project, *Tarrant County College Student Success Center* in Forth Worth, Texas, a team of students was tasked with completing a design for a student success center on the Tarrant County College campus in Fort Worth, Texas. The team faced many design challenges, including providing resiliency to handle natural disasters, emergency planning utilities, and overall building performance enhancements. The jury praised the project for its integration of students, faculty, and professional engineers on a complex, real-world project.

Clarence E. Waters, Ph.D, with UNL's Durham School of Architectural Engineering and Construction, said projects such as this bring real value to the students. "In addition to allowing students to understand the constraints and requirements of the project stakeholders, working on a real-world project also gives the students the opportunity to work alongside potential future employers and colleagues," said Waters.

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

A jury of NCEES members and representatives from academic institutions and engineering societies selected the winners from 21 entries. The jury members considered the following criteria: successful collaboration of faculty, students, and licensed professional engineers; protection of public health, safety, and welfare; multidiscipline and/or allied profession participation; knowledge or skills gained; and effectiveness of display board, abstract, and project description.

Isabel Anderson, a Master of Architectural Engineering student during this class and a team project leader, said the participation of professional engineers improved the experience. "With the help from many of the professional engineers, we (students) were able to work through the initial phase where the tasks seemed overwhelming and gain focus to make significant progress on our designs. They helped us work through the complexities of the project while pushing us to learn as much as we could before we came to them with our questions."

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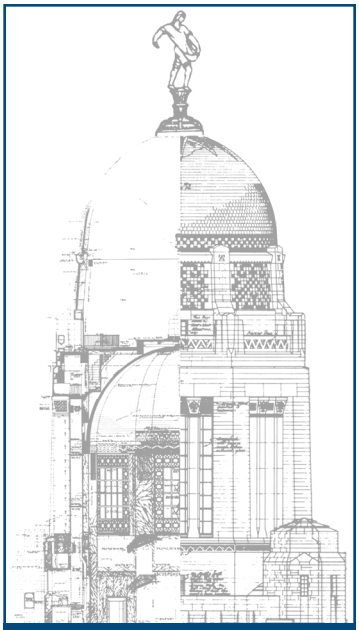
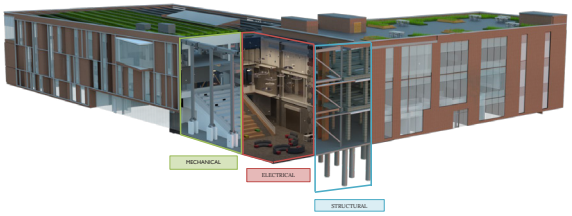


Tarrant County College Student Success Center
Fort Worth, Texas

Interdisciplinary Capstone Project

Project Overview

Interdisciplinary teams engineered fully integrated designs for the Student Success Center on the Tarrant County College campus in Fort Worth, Texas, a 3-story, 153,490sf building with classrooms, administration spaces, and a large atrium. The budget of $42M includes the base engineering of the building with additional project challenges:
1) resiliency to handle natural disasters; 2) emergency planning for utilities; and 3) overall building performance enhancements.
The intent is to create an inviting space focused and designed around the college's desire to be one college, student ready, and to serve the community.



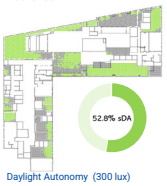
Design Challenges

Resilient Building – Natural Disasters
- Community Shelter
- Safe Room
- Protected Utilities
- EF-3 rated facility
- EF-5 rated storm shelter
- Protection of mechanical and electrical systems that were designed with resiliency and redundancy in mind
- EF-5 rated windows to maintain structural integrity and thermal performance while allowing daylight in the space

Emergency Planning - Utilities
- Full Power for 2 Days
- 40% Square Footage Powered for 5 Additional Days
- 2 Dedicated Emergency Panels

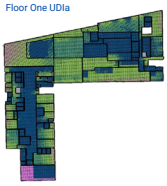
Building Performance Enhancement
- 54.6% Reduction over ASHRAE 90.1 Baseline
- Improved Daylight Access of Regularly Occupied Spaces with 53-67% sDA
- Integrated Acoustic Solutions
- Green Roof with Photovoltaics

Floor One sDA

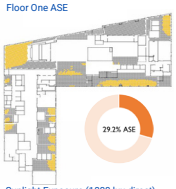


Daylight Autonomy (300 lux)

Floor One UDIa



Floor One ASE



Sunlight Exposure (1000 lux direct)

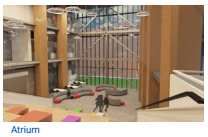
Engineering Design

INTEGRATION

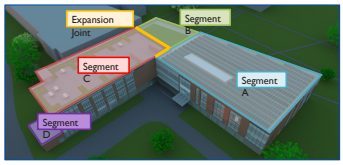
Roof Coordination
- Green roof and photovoltaic array integrated mounting system for improved array efficiency and enhanced thermal performance
- Skylights and solar tubes increase daylight in the building core

Atrium Design
- Curtain wall reduces glare and lowers the solar heat gain while adding an architectural focal point
- Raised floor system for supply air and powered floor boxes
- Custom shading system for control of daylighting
- Suspended, integrated lighting and acoustic fixtures

Shelter and Safe Room Design
- EF-3 rated community shelter
- EF-5 rated safe room
- Mechanical and Electrical systems maintain full operation in emergency conditions



Atrium



Segments A&B EF3 resilient community shelter
Segments C&D EF5 resilient safe room

ELECTRICAL SYSTEMS

Power Systems Design
- 2500 A, 480Y/277V microgrid distribution system
- Photovoltaic array and battery storage system for renewable and off-grid energy
- Diesel generator sets for off-grid power

Lighting Design
- 67% spatial daylight autonomy in occupied spaces from windows, solar tubes, skylights, and light shelves
- One design concept layers lighting mimicking light breaking through a forest canopy in the atrium, branching into the corridors and leading occupants to daylit learning spaces

STRUCTURAL SYSTEMS

Gravity system
- Concrete on metal deck roof and floor slabs
- Steel columns and beams selected for flexibility in design

Lateral systems
- CMU shear walls
- Steel moment frames
- Diaphragm design
- Separate lateral system design for safe room and rest of the building

Foundation systems
- Grade beams
- Gravity drilled shaft piles
- Moment frame drilled shaft piles
- Slab on grade with soil improvement
- Depressed slab in atrium to accommodate underfloor air distribution system

MECHANICAL SYSTEMS

Primary HVAC System
- Geothermal loop field with auxiliary fluid cooler for high energy efficiency and renewable heat source

Secondary HVAC System
- Chilled Beams increase indoor air quality due to extra outdoor air demands
- Air Supplied through DOAS units with integral ERV wheel

Building Energy
- Energy model shows the facility exceeds ASHRAE 90.1 baseline by 55%

Rainwater Recycling
- Rainwater is collected from roof area A and B
- Average annual rainfall exceeds flushing requirements for the building

SPECIAL SYSTEMS

Structural
- Generator room design
- Green roof and pv panel loading
- Angled curtain wall framing
- Exterior mechanical equipment roof enclosure
- Elevated water storage support
- Cistern foundation

Mechanical
- Generator fuel piping and ventilation design
- Underfloor air delivery in three-story atrium

Electrical
- Audio-visual and telecommunication systems
- Fire alarm, security, and lightning protection for occupant safety

Heath, Safety, & Welfare

- Fire alarm and sprinkler system meet life safety requirements
- Security system for safety and peace of mind.
- The entire building can survive an EF-3 tornado and continue normal operations and provide community shelter
- A portion of the building can withstand an EF-5 tornado and is designed as a safe room
- Chilled beams provide 2-3 times ventilation as required by code to prevent spread of disease
- Automatic window shades and light shelves prevent glare in classrooms while carrying daylighting further into the building
- Acoustic paneling and STC rated walls optimize acoustics in learning spaces
- Structural members designed to protect occupants during natural disasters using ASCE 7-10.

LEED

The Leadership in Energy and Environmental Design standard promotes sustainability. In accordance with the college's sustainability initiatives, the team aims to develop a LEED Certification, with the desire to earn LEED Gold by means of light, sound, and thermal comfort.

WELL

WELL V2 Certification considers six design principles based on the project being equitable, global, evidence-based, technically robust, customer focused, and resilient. The Student Success Center has been designed with anticipation of achieving a WELL Gold certificate.

Security
- Pan-Tilt-Zoom Cameras
- Card Access
- Gunshot Detection
- Panic Buttons

Lightning Protection

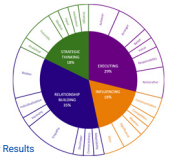
A Prevectron 3 active air terminal was utilized for this project. Energy stored in a capacitor during a storm is released as lightning is about to strike, which brings the strike down safely through the grounding system. This system is efficient as it uses much less material because one active air terminal provides coverage to the entire building.

Prevectron 3

Knowledge and Skills Gained

Soft Skills

Essential skills, often referred to as "soft skills" were developed and honed through this rigorous academic-year activity. These are requirements for professional engineers to make impactful contributions to the built environment.
- Communication
- Organization
- Critical thinking
- Teamwork
- Professionalism



Clifton Strengths Finder Results

Technical Skills

Structural
- Software: Revit, AutoCAD, L-Pile, RAM Structural System, Bluebeam Revu, Enercalc, MasonryIQ, RISA Systems, Excel
- Gravity, lateral, and foundation system selection and design
- Foundation load transfer, structural redundancy, and system evaluation
- Steel, concrete, timber, and masonry design
- Impact-resistance per ICC-500 and FEMA P-361
- Safe room design

Mechanical
- Software: Trane Trace 700, Revit/BIM 360, Bluebeam Revu, GSHP Geothermal, Climate Consultant, VA Design
- Geothermal design, underfloor air distribution, and chilled beam systems
- ventilation practices
- Multi-entrance plumbing design
- ASHRAE 15 Refrigerant Design
- Primary and secondary system design and selection
- Plumbing and fire protection systems design
- Acoustical analysis

Electrical
- Software: Revit, SKM Powertools, 3ds Max, Rhino 3D, Bluebeam Revu, Climate Consultant, SAM, Enscape
- Power systems and distribution design
- Emergency power back-up
- Renewable, sustainable, and on-site generation
- Lighting design
- Daylighting analysis and design
- Telecommunications, fire alarm, security, and audio/visual infrastructure
- Lightning protection system

Industry Collaboration

Industry professionals provided support throughout by sharing expertise and insight to engineering judgement. Collaboration with professionals allowed students to depth and quality to the engineering designs.

Calculated value of donated professional time : **$339,450**

(19) Mentors: Teams of structural, mechanical, and electrical/lighting engineers from industry supported students through the design process on a weekly basis.

(8) Specialty Mentors: Industry members with specific expertise in acoustics, healthy buildings, codes, shading, and tornado design.

(30) Evaluators: Industry professionals provided feedback on documents and presentations for each submittal.

Project Issued	Coordination Plan	Code Analysis	Schematic Design	Design Development 1	Design Development 2	Construction Documents
July 2021	August 2021	September 2021	October 2021	December 2021	February 2022	April 2022

Continued from Page 1

Steve Vo, P.E., a principal and electrical division manager at Professional Engineering Consultants in Wichita, Kansas, served as a mentor for this year's team. "I got involved at UNL itself because of the strong culture of the program, and I really wanted to help mentor students as they grow into this industry," said Vo.

Anderson said her participation in the project helped teach her to collaborate effectively. "I was the team's project manager, and that sometimes meant that my role was not to be just an engineer, but a problem solver and a communicator," said Anderson. "I learned that being present and focused is important but taking the time each day to ask team members how everything else was going in their lives was just as important. This helped me learn a lot about myself and what I someday want my career to look like as an electrical engineer."

The Nebraska Board congratulates the entire project team. ■

Bostelman Begins Term as NCEES Central Zone Vice President

Janice Bostelman, P.E., PMP, recently received her commission as NCEES Central Zone vice president at the conclusion of the organization's annual meeting, held August 23–26 in Carlsbad, California. As vice president, Bostelman will serve on the NCEES board of directors and as the zone's administrative officer through 2025.

"I have been very humbled, honored and blessed to learn so much in the last 5 years about NCEES, it's mission and then to watch in action all of the hundreds of volunteers, member board administrators, and member boards members that give of so much of their time to support their passion in licensure for engineering and surveying," said Bostelman. "I looked at their dedication and felt it necessary to 'give forward' in a role that would allow such. I view my role as an extension of those servant leaders to ultimately uphold the safety, health and welfare of the public above all else."

A resident of Brainard, Bostelman has served on the Nebraska Board of Engineers and Architects since 2017. She served as a member of the NCEES Committee on Examinations for Professional Engineers in 2018–22 and as Central Zone assistant vice president in 2021–22.

Bostelman said one issue she hopes to advance is increasing the value and understanding of licensure. "This I hope to accomplish working with many others through outreach in the education system, promotion of education awards in engineering and surveying, and especially educating the public, "said Bostelman. "So many in the public sector still don't see or understand reasoning behind why they should utilize a professional. There are still many misconceptions about what professionals do. But then when you sit down and educate the public about so many unknown complexities surrounding a project or situation, then they understand."

Bostelman is the owner of Bostelman Engineering, LLC and teaches as an adjunct instructor for Southeast Community College in Milford. She earned a bachelor's degree in chemical engineering from the University of Nebraska–Lincoln and continued her studies in graduate work at the University of Nebraska–Lincoln and the University of New Mexico.

"I had a very wise forward thinking manager that encouraged engineers to get licensed early in their careers," said Bostelman. "I'd like to thank him for that advice so long ago." ■

Architect Alan Wedige appointed to Nebraska Board

Alan D. Wedige, AIA, NCARB, has been appointed to the Nebraska Board of Engineers and Architects by Governor Pete Ricketts.

Wedige, a Nebraska-licensed architect, is the University Architect for the University of Nebraska, Office of the President. In that capacity, Alan serves as a resource to university leadership and provides expertise, counsel, and oversight regarding campus planning, architectural and site design, strategic sustainability, energy planning, and major capital development projects. He is a licensed architect with a bachelor's degree in architecture and construction management and a master's degree in engineering, both from the University of Nebraska-Lincoln.

"It has been great to experience the breadth of knowledge along with the statewide professional engagement the members of the Board and the Board staff have," said Wedige. "I have also been impressed with the amount of national involvement the Board members have, I believe this type of engagement both locally and nationally is vital in maintaining a strong professional position for the engineering and architecture professions in Nebraska."

Prior to joining the University of Nebraska in 1999, Wedige worked in private practice with a focus on historic, aviation, hospitality, and civic architecture and planning. He was also an owner of A.D. Wedige & Associates where he provided architectural drafting services for Lincoln area architects, engineers, and contractors, as well as providing design and project management services.

From his perspective, Wedige said he sees both challenges and opportunities in communicating the value of engineering and architecture to the public. "We all stress the importance of and benefit from good communication, and we all have a multitude of vehicles for communicating," said Wedige. "From my perspective I believe there are approaches we can and should explore to better communicate the value of engineering and architecture outside of our professional circles, vehicles that embrace and more effectively reach the public." ■

New Licensee Ceremony Held at State Capitol

Newly-licensed architects and professional engineers pose with their license certificates in the Rotunda of the Nebraska State Capitol on November 4, 2022. In total, 18 architects and 96 professional engineers received their first license since November 2021.

Board's rules revised; effective October 8, 2022

Governor Pete Ricketts approved proposed changes to the Board's rules (Title 110, Neb. Admin. Code). The changes were the subject of a public hearing the Board held on August 5, 2022. No comments opposing these changes were received.

These changes are summarized below.

Chapter 2. Initial Licensure of Professional Engineers

In 2019, NCEES reduced the amount of general education hours in the NCEES Education Standard from 16 hours to 12. Consequently, Rule 2.2.4.4 is modified and reduces the number of general education hours the Board may credit to an applicant from nine to six. This change aligns with NCEES' reduction and keeps the hours credited as a multiple of three (as most college courses are given 3 semester hours credit).

Due to LB755's passing in 2020, the Board is no longer reviewing a P.E. candidate's experience when applying for the NCEES PE Examination, and instead reviewing experience when they apply for licensure. Rule 2.4.3 is consequently deleted, and subsequent rules in Section 2.4 are renumbered.

Chapter 6. The Licensee Seal

A new Rule Section 6.5 is added to require licensees to provide identifying information such as their name and location of the project on technical documents that constitute the practice of engineering or architecture. In addition, if a licensee uses standard details prepared by a jurisdiction, the name of such entity which prepared the detail must be noted on technical submissions. The Board's position is that this information would help the general public, building officials, state agencies, and other entities identify the individuals and organizations that prepared the work.

Chapter 9. Continuing Education

Rule 9.7.1 is modified to allow Board the ability to audit any licensed architect or professional engineer for continuing education compliance at any time, not just in conjunction with the renewal process. Rule 9.7.3 is changed to change the process and timeline used when the Board disallows some or all of a licensee's continuing education. Both rules are also modified to align rule with current audit procedures.

Chapter 10. Exemptions; Clarification

The definition of a farm building is introduced as New Rule 10.2.5, and uses the definition of an "agricultural building" as used in the state building code (established by N.R.S. §71-6403).

The complete text of these changes can be found in the latest edition of the Board's 2022 E&A Act Handbook under *latest news/ publications* or the link below:

https://ea.nebraska.gov/publications

NCARB NEWS

Get the Latest ARE 5.0 Guidelines

To help candidates better prepare for the Architect Registration Examination® (ARE®) appointment and better understand exam policies, NCARB has updated the *ARE 5.0 Guidelines, including*:

- **Detailed instructions to view provisional feedback:** Before exiting the exam, you have the opportunity to view provisional feedback. Provisional feedback is an accurate predictor of whether or not you passed or failed the exam division, but it's not an official score.
- **A note that NCARB will be conducting random audits to verify application validity for English as a Second Language (ESL) accommodations.** Candidates approved for an ESL accommodation may be selected for an audit at any time, including after an examination has been completed using the accommodation.This note is also included on the application form.
- **More detailed information about the divisional practice exams.** All licensure candidates with active NCARB Records can access our free practice exams for each division. Plus, supervisors and mentors can now access PDF versions of each practice exam—but we strongly encourage candidates to continue using the full practice exams in their NCARB Record.
- **Clarification on two PSI policies that are different from Prometric's:** 1) PSI will not provide compensation for lost time due to test center closures or technical issues, and 2) candidates testing in PSI test centers cannot leave the test center during their appointment, including on a break. Learn more about these policies.
- **An update on NCARB's Approved Test Prep Provider Program:** With our new focus on developing in-house study materials, NCARB is sunsetting the Approved Test Prep Provider Program. Previously approved materials retain their approved status through December 31, 2022.
- **An update to the ARE 5.0 Reference Matrix:** The Project Resource Manual has been replaced by CSI Practice Guides. Candidates can use either reference to prepare for the relevant divisions of the exam.

NCARB has also released PDF versions of each divisional practice exam. These PDFs are intended for supervisors and mentors who may wish to understand the practice exams' content, but don't have access to the Practice Exam Dashboard in their NCARB Record.

NCEES NEWS

FE, PE Exam prices to increase in 2024

At the NCEES Annual Meeting in August 2022, member boards passed two motions to increase FE and PE examination prices. The increases will become effective in January 2024.

Exams are the primary source of revenue for NCEES and must generate a nominal amount of positive income to ensure that sufficient short-term and long-term resources are available. In addition, exam income is used to fund programs and services that support the Council's mission and provide value to the member boards and the general public.

In addition, the current Structural PE exam will be transitioning from a pencil-and-paper format consisting of a vertical section and a lateral section given on two separate days to a computer-based exam consisting of vertical and lateral sections with separate breadth and depth components for each section in four separate exam seatings. The computer-based Structural PE Exam is scheduled to be offered in 2024.

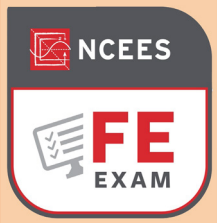
Price includes exam development, scoring, and computer-based exam administration of each section.

The prices effective January 2024 will be as follows:

- FE Exam: **$225** (from $175)
- PE Exam: **$400** (from $375)
- Computer-based Structural PE Exam section: $350

New initiatives promote FE Exam

NCEES has partnered with Credly to provide digital badges to examinees upon passing one of these exams. These digital badges can be displayed through social media, in email signatures, and in digital résumés to recognize their achievement and let others know they are on the path to licensure.



Another new initiative NCEES is working on is providing FE honor cords for students to wear during commencement exercises. "The civil engineering department at the University of South Carolina started doing this a few months ago based on the suggestion of one of their graduating seniors," said David Cox, NCEES CEO. "They had a great response from their students, and we believe this will be a great incentive to take exams before graduating."

NCEES is working with universities to learn more about the process and hope to be able to offer FE honor cords to all students who pass the FE exams prior to graduation.

Licensure Updates

March 30, 2022 - November 10, 2022

NEWLY-LICENSED ARCHITECTS

Danielle L. Banzhaf	Lincoln, NE
Zachary D. Lundgren	Omaha, NE
Maryana C. Heilman	Omaha, NE

NEWLY-LICENSED PROFESSIONAL ENGINEERS

Agricultural & Biological

Trevor A. Hinn	Lincoln, NE

Chemical

David T. Hansen	Lincoln, NE
James W. Rittenberger	Lincoln, NE
Gregory David Macleod	Central Valley, NY
Jordan R. Aders	Seattle, WA

Civil

John H. Abbott	Omaha, NE
Marcia L. Alvardo	Tampa, FL
Deborah J. Androvich	Sevierville, TN
Gregory W. Barsch	Columbus OH
Magdy Z. A. Barsoum	Omaha, NE
Nathan P. Bissonnette	Pasadena, CA
Nicholas J. Bowens	Salem, OR
Joshua R. Christensen	Omaha, NE
Oualala Coulibaly	Bennett, CO
Tucker L. Cox	Omaha, NE
Lauren E. Cramer	Bellevue, NE
Allison J. Crawford	La Vista, NE
Lucas C. De Castro	Columbus, NE
Mark G. Dethlefs	Omaha, NE
Jeffery A. Doudrick	Kansas City, MO
Joshua M. Enot	Oviedo, FL
Samuel W. Fink	Hutchinson, MN
William P. Fraizer	Muskegon, MI
Elliott O. French	Papillion, NE
Derek M. Heckler	Columbus, OH
Elena C. Hoff	Lincoln, NE
Justin D. Insinger	Omaha, NE
Aaron D. Immel	Daphne, AL
Erik M. Johnson	Wallace, NE
Carl W. Jenne	Winter Park, FL
Thomas J. Kalman	Coralville, IA
Austin L. Kellogg	Omaha, NE
Jason M. Kemnitz	Shawnee, KS
Antony M. Kodsy	Omaha, NE
Jordan N. Koskelin	Lincoln, NE
Christopher J. Lambrecht	Omaha, NE
Gabriel J. Larsen	Omaha, NE
Reynaldo Lemus	Lincoln, NE
Andres Llano	Weston, FL
Dayton J. Maul	Kearney, NE
Zaheeruddin A. Mohammed	Houston, TX
Patrick R. Nevison	Paynesville MN
Michael K. Oskey	Salt Lake City, UT
Dana L. Pendleton	Carter Lake, IA
David M. Roebuck	Hamilton, GA
Matthew D. Roth	Omaha, NE
Steven C. Rue	Omaha, NE
Trevor J. Rundhaug	Saint Paul, MN
Gabriel C. Sanudo	Humble, TX
Amy D Schauble	Bellevue, WA
Shawn S. Scherer	Gretna, NE
Matthew B. Schmitz	Chancellor, SD
Ryan C. Scott	Amarillo, TX
Christopher D. Shultz	Lawrence, KS
Joshua E. Siel	Omaha, NE
Luke R. Snyder	Goshen, IN
Frank E. P. Spartz	Austin, MN
David M. Stanek	Sacramento, CA
Chad A. TeVelde	Greeley, CO
Juan M. Toro	Spring, TX
Michael Torres	Salt Lake City, UT
Kashane Vilasineekul	Columbus, OH
Justin L. Ward	Omaha, NE
Blake W. Weatherly	Omaha, NE
Andrew W. R. Youssef	Friendswood, TX

Electrical and Computer

Paul T. Alexander	Litchfield Park, AZ
Mariam Armanious	West Palm Beach, FL
Jason A. Bartl	Cloquet, MN
Tyler D. Clark	Omaha, NE
Lucas D. Dolezal	Omaha, NE
Sean P. Doyle	Omaha, NE
Wyatt M. Howell	Lee's Summit, MO
Dylan A. Hess	Witchita, KS
Heather H. Ingerson	Papillion, NE
Joel M. Jacobs	Bellevue, NE
William R. Jennings, Jr.	Lynchburg, VA
Timothy M. Menter	Lincoln, NE
Alexander T. Nelson	Lincoln, NE
Joshua L. Peach	Fairlawn, OH
Sigmund I. Reboquio	Lewisville, TX
Peter J. Regez	Galena, IL
David M. Repair	Omaha, NE
Benjamin C. N. Shallenberger	Columbus, NE
Jacob D. Workman	Omaha, NE
Dallas H. Wodtke	Fort Collins, CO
Lewis Wong	Murray, UT

Environmental

Samuel P. Hansen	Lincoln, NE
Kari A. Munk	Omaha, NE

Mechanical

Jeff T. Brown	South Jordan, UT
Barry W. Boren	White Hall, AR
Daniale L. Bush	Owensboro, KY
Tyler K. Casados	Englewood, CO
Alicia R. Clark	Ankeny, IA
Sarah A. Doyle	Omaha, NE
Keith A. Dusang	Covington, LA
Darin L. Dux	Pella, IA
Joshua G. Eberle	Houston, TX
Christopher R. Freer	Colorado Springs, CO
Kyle L. Gandee	Sterling, CO
David A. Geck	La Vista, NE
Philip J. Gorospe	Omaha, NE
James L. Hall	Tampa, FL
John A. Hamilton	Memphis, TN
Anton C. Hassebrook	Gothenburg, NE
Adam J. Hawks	Belgrade, MT
Grady M. Henrichs	Omaha, NE
Dwayne B. Herrold	Tulsa, OK
Thomas J. Houle	Chicago, IL
Brian D. Huff	Overland Park, KS
Mary P. Kleinasser	Omaha, NE
Bryant J. Klotthor	Lincoln, NE
John D. Makar	Austin, TX
Joshua D. Mondy	Omaha, NE
Jacob H. Phillips	Omaha, NE
Michael D. Quinn	Elkhorn, NE
Ryan G. Randall	Omaha, NE
Evan C. Rineholt	Platte City, MO
Jonathan W. Ross	Omaha, NE
Tyler V. Shoening	Grand Island, NE
Bradley D. Shaner	Omaha, NE
Douglas S. Thoma	Bellbrook, OH
Patrick H. Vorthmann	Omaha, NE
Griffing E. Walsh	Omaha, NE

Structural

Joshua R. Christensen	Omaha, NE
Andrew M. Coughlin	Bend, OR
Daniel P. Deery, Jr.	Greenville, SC
Eric T. Fedders	Olathe, KS
Christopher J. Krauss	Boulder, CO
Jayson D. Love	Layton, UT
Kevin S. Moore	Moraga, CA
Chuong X. N. Ngo	Omaha, NE
Brian M. Shen	San Francisco, CA
Joshua J. Wilsmann	Fond Du Lac, WI

NEW EMERITUS LICENSEES

Architects Emeriti

John Z. Ballew	Durango, CO
Mark A. Hoistad	Lincoln, NE
Nicolette L. Amundson	Omaha, NE
Stuart J. Bailey	Sartell, MN
Bryce Hastings	Lincoln, NE
Tanya T. Davis	Salt Lake City, UT

Professional Engineers Emeriti

John F. Bailey	Omaha, NE
John W. Barker	Louisburg, KS
Curtis A. Bisgard	Yankton, SD
Paul R. Boslaugh	Bellevue, NE
Larry W. Brittenham	Superior, NE
Scott A. Cowles	Fremont, NE
Gordon W. Craig	Spring, TX
Kendall C. DeJonge	Fort Collins, CO
Eric S. Dixon	Lincoln, NE
Joshua D.Hanes	Thornton, CO
Dennis D. Heermann	Grand Island, NE
Joseph R. Hill	Youngsville, NC
Mark M. Kuhlenengel	Omaha, NE
Matthew G. Rogers	San Diego, CA
Kevin C. Skibiski	Ozark, MO
Joseph T. Rudd	York, PA

IN MEMORIAM

Architects

Dale L. Gibbs	Lincoln, NE
Lynn L. Jones	Lincoln, NE
David F. Lempke	Papillion, NE
Willis Regier	Bellevue, NE
Timothy A. Olson	Polk City, IA

Professional Engineers

Herman R. Bailey	Hoover, AL
Gary K. Munkelt	North Wales, PA
Harold J. Slaight	Omaha, NE
Mervin L. Snowden	Tulsa, OK

Doane's BS in Engineering program earns ABET/EAC accreditation

Doane University's Bachelor of Science in Engineering degree program has been accredited by the Engineering Accreditation Commission (EAC) of ABET. This accreditation applies retroactive coverage to graduates starting from Oct. 1, 2019.

Graduation from an ABET/EAC-accredited engineering program satisfies the education component of licensure as a professional engineer in Nebraska, as referenced in Neb. Rev. Stat. §81-3451(2). ABET accreditation assures that programs meet standards to produce graduates ready to enter critical technical fields that are leading the way in innovation and emerging technologies, and anticipating the welfare and safety needs of the public, according to ABET.

"Accreditation ensures that education provides sufficient training in engineering principles, analytical algorithms, and design methods that are foundational to the engineering profession," said Dr. Cale Stolle P.E., assistant professor of engineering at Doane. "It brings standardization to the curriculum and ensures ongoing self-improvement. Overall, this ensures that the engineering education supplied in Nebraska creates graduates who are more ready and equipped for taking action to better society."

This is the seventh year of Doane's B.S. in Engineering program, which was first offered as a degree program on Doane's residential Crete campus in fall 2016.

Recently Resolved Compliance Cases

The following complaints were reviewed for compliance by the Nebraska Board of Engineers and Architects, and resolved via the action noted. These summaries are provided for licensee education and information, and should not be interpreted as a full description of the complaints described.

In complaints where disciplinary action was taken by the Board per Neb. Rev. Stat. § 81-3444, the names of the individuals and/or organizations involved are included.

21.11 – Unlicensed Practice

Summary: The Board was notified of the submission of unsealed plans from another state agency for the renovation of a single-story building [A - Assembly Occupancy] comprising approximately 3,300 square feet. The plans did not bear the seal of a Nebraska-licensed architect or professional engineer.

Action: This project was subject to the Act due to the building area comprising more than 1,000 square feet of Assembly occupancy. The Board authorized the remediation process to bring the project into compliance with the Act. Per Board Rule 8.4, the remediation professionals conducted reviews, identified deficiencies, and recommended corrections. After deficiencies were identified, the owner chose not to proceed with the project. The Board dismissed the complaint without prejudice but reserved the right to reopen the case if the project restarts.

21.12 – Unlicensed Practice

Summary: The Board was notified of the submission of unsealed plans from another state agency for a 1,840-square-foot, two-story addition [M - Mercantile Occupancy] to an existing 1,122-square-foot building. The plans did not bear the seal of a Nebraska-licensed architect or professional engineer.

Action: This project was subject to the Act due to the building area adversely impacting more than 3,000 square feet of a Mercantile occupancy. The Board authorized the remediation process to bring the project into compliance with the Act. Per Board Rule 8.4, the remediation professionals reviewed the project, identified deficiencies, and recommended corrections. The complaint was dismissed upon the removal of all deficiencies.

21.25 – Unlicensed Practice

Summary: The Board was notified of the submission of unsealed plans to another state agency for the renovation of a single-story building [A - Assembly Occupancy] comprising approximately 2,128 square feet. The plans did not bear the seal of a Nebraska-licensed architect or professional engineer.

Action: This project was subject to the Act due to the change in occupancy from farm building to Assembly and the renovation adversely impacting more than 1,000 square feet. The Board authorized the remediation process to bring the project into compliance with the Act. Per Board Rule 8.4, the remediation professionals reviewed the project, identified deficiencies, and recommended corrections. The complaint was dismissed upon the removal of all deficiencies.

21.38 – Unlicensed Practice

Summary: The Board was notified of the submission of unsealed plans to another state agency for a 2,808-square-foot, single-story Business Occupancy addition to an existing 9,540-square-foot building [F-Factory]. The plans did not bear the seal of a Nebraska-licensed architect or professional engineer.

Action: This project was subject to the Act due to the building area adversely impacting 3,000 square feet of Business occupancy. The Board authorized the remediation process to bring the project into compliance with the Act. Per Board Rule 8.4, the remediation professionals reviewed the project, identified deficiencies, and recommended corrections. The complaint was dismissed upon the removal of all deficiencies.

22.01 – Unlicensed Practice

Summary: The Board was notified of the submission of unsealed plans to another state agency for the renovation of a single-story building [A-Assembly Occupancy] comprising approximately 1,694 square feet. The plans did not bear the seal of a Nebraska-licensed architect or professional engineer.

Action: This project was subject to the Act due to the renovation adversely impacting more than 1,000 square feet of an Assembly occupancy. The Board authorized the remediation process to bring the project into compliance with the Act. Per Board Rule 8.4, the remediation professional conducted their review, identified deficiencies, and recommended corrections. The complaint was dismissed upon the removal of all deficiencies.

22.03 – Unlicensed Practice

Summary: The Board was notified of the submission of unsealed plans to another state agency for the renovation of a single-story building [Assembly (A) Occupancy] comprising approximately 3,805 square feet. The plans do not bear the seal of a Nebraska-licensed architect or professional engineer.

Action: This project was subject to the Act due to the building area comprising more than 1,000 square feet of Assembly occupancy. The owner chose to involve licensed professionals to bring the project into compliance before the Board reviewed the project. Deficiencies were identified and removed. The Board dismissed the complaint without disciplinary action.

22.04 – Unlicensed Practice

Summary: The Board was notified of the submission of unsealed plans to another state agency for the renovation of a single-story building [B-Business] comprising approximately 4,960 square feet. The plans do not bear the seal of a Nebraska-licensed architect or professional engineer.

Action: The Board authorized the remediation process to bring the project into compliance with the Act. Per Board Rule 8.4, the remediation professionals conducted reviews, identified deficiencies, and recommended corrections. The complaint was dismissed upon the engagement of licensees.

22.11 – Unlicensed Practice

Summary: The Board was notified of the submission of unsealed plans to another state agency for the construction of a single-story building, [Storage (S) Occupancy], comprising 12,000 square feet. The plans do not bear the seal of a Nebraska-licensed architect or professional engineer.

Action: This project was subject to the Act due to the building area comprising more than 5,000 square feet of Storage occupancy. The Board authorized the remediation process to bring the project into compliance with the Act. The owner chose not to move forward with the construction of the building. The Board dismissed the complaint without prejudice.

22.12 – Violation of the E&A Act

Summary: The Board received a complaint alleging the Respondent and their employer violated the Act by not employing professional engineers in a project subject to the Act.

Action: The Board reviewed the facts presented, and through its investigation with the licensee and employer, the Board found no apparent violations of the Act. The Board dismissed the complaint.

22.13 – Unlicensed Practice

Summary: The Board was notified of the submission of unsealed plans to another state agency for the construction of a single-story building [Business (B) Occupancy] comprising 12,000 square feet. The plans do not bear the seal of a Nebraska-licensed architect or professional engineer.

Action: The Board authorized the remediation process to bring the project into compliance with the Act. Per Board Rule 8.4, the remediation professionals conducted reviews, identified deficiencies, and recommended corrections. The complaint was dismissed upon the engagement of licensees.

22.15 – Unlicensed Practice

Summary: A complaint was submitted alleging a lumber yard (Respondent) was practicing architecture and engineering without employing licensees or holding a certificate of authorization.

Action: After investigation, the Board determined the Respondent did not regularly employ licensed architects or professional engineers and may have been preparing technical documents on projects not exempt from the Act. The Board found no formal administrative or disciplinary action was warranted but instead chose to issue a letter of caution to the Respondent to inform it not to prepare any technical documents—including those which might be used for pricing purposes or marked "not for construction"—in relation to projects subject to the Act. Further instances of Act violations brought to the Board's attention originating from this respondent may result in penalties described in Neb. Rev. Stat. §§ 81-3442.

STATE OF NEBRASKA BOARD OF ENGINEERS AND ARCHITECTS
PO Box 95165 • Lincoln, NE 68509-5165

DEC	**09**	**Board Meeting**
	26	**Christmas Observed - Office Closed**
JAN	**02**	**New Year's Day Observed - Office Closed**
	16	**Martin Luther King Day - Office Closed**
	20	**Board Meeting**
FEB	**16**	**Board Meeting**
MAR	**16**	**Board Meeting**
APR	**13-14**	**NCEES Structural PE Exams**
	14	**Board Meeting**
	28	**Arbor Day - Office Closed**
MAY	**12**	**Board Meeting**
	31	**Memorial Day - Office Closed**
JUN	**09**	**Board Meeting**
	19	**Juneteenth - Office Closed**

CONTINUING EDUCATION CERTIFICATE
NEBRASKA BOARD OF ENGINEERS AND ARCHITECTS

This is to certify that the person named below has earned 0.25 continuing education hours for Architects and Professional Engineers by thoroughly reading the Fall 2022 edition of the Nebraska Board of Engineers and Architects newsletter, *The Nebraska Professional.*

_____
NAME

I attest, by the responses recorded below, my signature, and on my professional honor, that I have personally read and am familiar with the Fall 2022 edition of the *The Nebraska Professional.*

1. When does NCEES anticipate the Structural PE Exam will be offered via computer-based testing?	
2. Are practicing organizations now required to include its Certificate of Authorization number on technical submissions in accordance with new Rule 6.5?	
3. Does NCARB offer free ARE pracice exams for Record holders?	

_____ _____ _____
Signature **License No.** **Date**

If you claim credit for reading the newsletter and are audited, you must produce this completed certificate as documentation.