

SPRING 2020

Mississippi PEPLS Newsletter

Mississippi Board of Licensure for Professional Engineers and Surveyors

660 North Street, Suite 400, Jackson, Mississippi 39202

Website: www.pepls.state.ms.us Office Phone: 601-359-6160

Who We Are

The Mississippi Board of Licensure for Professional Engineers and Surveyors was established by the state legislature in 1928. The Board's mission is to safeguard life, health, and property, and to promote the public welfare by providing a complete and thorough registration process for Professional Engineers and Professional Surveyors (PEPLS), ensuring that each is properly qualified to practice in the state of Mississippi. The Board also regulates the practice of engineering and surveying in the state through investigation and disciplinary authority granted by Title 73, Chapter 13 of the Mississippi Code.



Back row (left to right): Dr. Dennis D. Truax, Joe E. Lauderdale, Patrick Martino, Carey Hardin, Mike Thornton, Sarah Tracy;

Front row (left to right): Bill Mitchell, Steven A. Twedt, Richard Thomas Tolbert

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Board Officers

Steven A. Twedt, PE – Board President

Richard Tolbert, PS – Vice President

Bill Mitchell, PE/PS – Secretary

Rules & Regulations

What's new in Rules & Regulations As of January 1, 2020

Rule 1 - Ex-Officio of the Board changed from the Secretary to the President for Council attendance and to require a surety bond of the Board President.

Rule 3 – Update deadline for paper and pencil examinations. Paper and pencil examinations are offered in April and October on dates set by NCEES.

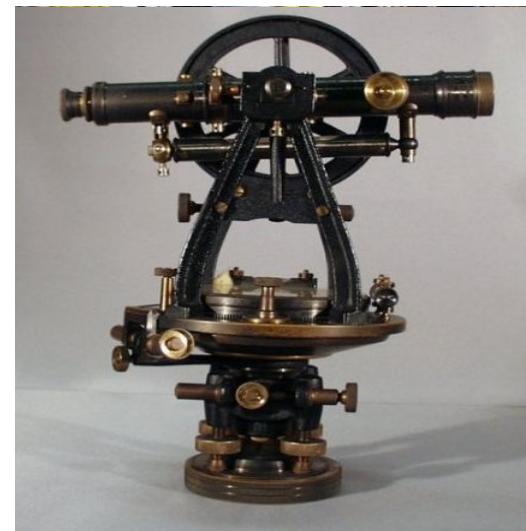
Rule 3.1, paragraph 3 – amended to read as follows: “An application not properly completed, not containing all of the required information, or not accompanied by the required fee will be deemed incomplete with a statement of the reason for non-approval.

Rule 8 – the Board updated the surveying curricula to reflect the following course requirements:

Subject	Required Minimum Semester Hours
Surveying	12
Mathematics (Algebra, Trigonometry, Calculus)	6
Technical Courses (Advance Mathematics, Advanced Surveying, Statistic)	6
Graphics (CAD, Computer Science, Drawing, GIS)	6
English (Composition, Oral Communication, Technical Writing)	6
Electives*	26
Minimum Total Hours	62

* Recommended Electives include: Accounting, Astronomy, Business Law, Dendrology, General Business, Land Law, Legal Research, Public Policy, Real Estate Law, and Urban Planning.

Rule 9.1 – for purposes of evaluating experience the board defined a formal cooperative engineering education defined as a ABET accredited program of fifty-two (52) weeks or more and equates to six (6) months of experience credit. A formal cooperative engineering education of at least twenty-six (26) weeks but less than 52 weeks will be granted three (3) months of experience credit. No experience credit of less than three months will be given.



Rules & Regulations

What's new in Rules & Regulations (continued)

Rule 9.1.5 - the Board has eliminated the mandate for supervisor PE references for those with ten (10) or more years of experience.

Rule 9.10 – an application for initial professional surveyor licensure (first licensure in any state) must have property line surveying experience for at least fifty (50) percent of the minimum required experience.

Rule 9.11 – Amended to reflect that two years of qualifying mentoring experience acquired through a board-approved mentoring arrangement equates to one (1) year of qualifying engineering experience.

Rule 11 –the Board decoupled the experience component as a prerequisite for the PPE examination. As of February 2020, PE applicants who qualify will no longer make application to the Mississippi Board of Licensure for Professional Engineers and Surveyors to take the PE exam. Instead, individuals will be allowed to register directly with NCEES, prior to having obtained the four years of engineering experience, provided they already meet the following criteria:

- hold a Bachelor of Science degree in engineering from an EAC/ABET-accredited program
- have taken and passed the NCEES Fundamentals of Engineering Examination.
- are a Mississippi resident
- have the FE exam and their education VERIFIED in their NCEES account.

Only those individuals that have met the education requirements and have passed the FE exam may sit for the PE exam prior to having gained the required experience.

After you have taken and successfully passed the NCEES Fundamentals of Engineering Examination; the NCEES Principles & Practice of Engineering Examination; AND, have obtained four (4) full years of qualifying engineering experience from the date you received your ABET EAC accredited degree in engineering, you are then eligible to complete the Mississippi “licensure application”.

Rules 11.18 – As of January 1, 2020, the board has further delineated the requirements for licensure and now waive the PE requirements for those with a PhD in engineering from an appropriate program.

Rule 23 –As of January 1, 2020 no more than eight (8) professional development hours (PDHs) obtained during a twenty-four (24) hour period will be applied towards meeting the continuing professional competency requirements.

The rules and regulations dated January 1, 2020 are available on the agency website.

License Renewals

All licenses expire annually on December 31st, if not renewed. Renewals (for both Licensees and Firms) must be completed online.

Expired license renewals will continue to be accepted through Tuesday, June 30, 2020 (with the appropriate late fee).

All renewals (Licensees and Firms) must be completed online.

Licensees must have obtained all continuing education PDH's prior to renewal and will be required to enter in continuing education PDH's into the system in order to renew for 2020.

For renewal of an expired license, a 10% per month late fee is assessed for a max of 6 months, after which re-licensure is required.



NCEES seeks civil engineer's professional expertise and advice

NCEES is currently seeking licensed civil engineers to participate in a professional activities and knowledge study, or PAKS, for the PE Civil exam. The results of this online survey will be used to update specifications for the exam, which is used throughout the United States for licensing purposes.

NCEES requires a cross section of licensed professional engineers practicing civil engineering—including those working in industry, consulting, the public sector, and academia—to complete an online survey about the tasks and knowledge required of a licensed civil engineer with four to six years of experience to practice in a manner that safeguards the health, safety, and welfare of the public. The survey can be completed in approximately 40 minutes.

“These studies help NCEES ensure its licensing exams remain relevant to current professional practice,” explained Director of Exam Services Tim Miller, P.E. “The value of this PAKS depends on the number of people who participate, so NCEES is eager to get a large response from professional engineers across all areas of civil engineering.”

For more information: Contact: Sonya Dawson, P.E., NCEES Exam Development Engineer at 864-624-5455 or via E-mail at sdawson@ncees.org



surveyor noun

Save Word

sur-vey-or | \ ser-'vā-er \

Definition of *surveyor*

: one that surveys

especially : one whose occupation is surveying land

NSPS members sought to participate in O*NET Occupational definition of 'Surveyor'

NSPS members have been asked a number of times to participate in similar definition research efforts; most recently, related to the definition of the categories "Survey Technician" and Geodetic Surveyor". The response in both of these instances was very good.

The current request from O*NET provides a great opportunity for NSPS members to "define" who we are as Surveyors. NSPS is seeking volunteers for this effort as their policy prohibits the dissemination of its members' names/contact information without their consent.

Contact Curt Sumner (Curtis.sumner@nsp.us.com) to offer your assistance, and provide contact information through which O*NET can send information about the project.

"We will always have STEM with us. Some things will drop out of the public eye and will go away, but there will always be science, engineering, and technology. And there will always, always be mathematics."

- Katherine Johnson, Mathematician and former NASA employee

Agency Grant supports student learning and economic development

Students and faculty from the Mississippi Mineral Resources Institute (MMRI) and Department of Geology and Geological Engineering at the University of Mississippi (UM) are working on a research project in Charleston, Mississippi to identify potential locations to open new gravel pits that could be used for economic development in the area. Charleston is one of the three communities involved with M Partner, a UM initiative that seeks to match university capabilities with the goals and needs of local communities.

The U.S. Geological Survey is funding the educational mapping project, or EDMAP, which is designed to teach students geologic-mapping techniques through rigorous field mapping. Learn more at the following link:

<https://news.olemiss.edu/drilling-holes-fulfilling-goals/>

The drilling equipment for the project was purchased with a grant from the **Mississippi Board of Licensure for Professional Engineers and Surveyors** and supplemented by funding from MMRI, UM and the National Center for Physical Acoustics and the School of Engineering.



Featured Article: Professionalism and Ethics


Written by: William C. "Bill" Mitchell, PE, PLS

Careers in Science, Technology, Engineering and Math (STEM) are repeatedly ranked as one of the most trusted professions nationally and internationally. In most surveys, STEM professions rank in the top five with health care workers normally topping the list. Engineering and surveying professions which fall under the umbrella of STEM careers are based on mathematics and science which are much more objective than the foundations of many other professions. Therefore, I feel these occupations are more straight forward with opinions and solutions to presented problems and are more concrete and leave less room for interpretation. For example, a structural beam will either support a load safely or fail; a pump will provide a maximum amount of energy; and a generator is designed to safely create a maximum electrical load. These solutions are reasonably narrow in range which provide for more agreement among STEM professionals.


Engineers and surveyors are "professional applied scientists" that accurately and honestly design and document the solutions to everyday challenges. This quality of honesty coupled with conscientiousness is the formula for professionalism. Although professionalism is intertwined with a good knowledge of ethics, I feel some of the nuances of ethics in the engineering and surveying profession need frequent reviews for the practitioners.

Title 73, Chapter 13 of the Annotated Mississippi Code of 1972 addresses Professional Engineers and Surveyors. Section 5 of the Code creates the "Board of Licensure for Professional Engineers and Surveyors", and Section 15 provides the Board with the power and authority to "Establish standards of conduct and ethics". The Board's Rules and Regulations, Chapter 17: CODE OF PROFESSIONAL CONDUCT addresses these regulations in 9 rules. I recommend that all engineers and surveyors review the "Code of Conduct" periodically but certainly whenever changes to the code or rules and regulations are announced.

A copy of the annotated MS Code of 1972 as well as the newly approved Rules and Regulations (dated January 1, 2020) are available for download on the agency website: www.pepls.state.ms.us



WHAT IS TRIG-STAR?



Sponsored by the National Society of Professional Surveyors (NSPS), Trig-Star is a competition that recognizes and rewards high school students who excel in mathematics, particularly Trigonometry, and their teachers. The goal of the program is to demonstrate practical uses for mathematics and bring greater awareness of the surveying profession.

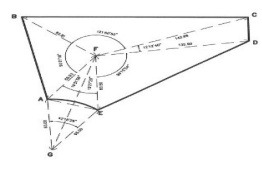
NATIONAL TRIG-STAR AWARDS

NSPS hosts the National Trig-Star Awards each year. The First, Second, & Third place winners, as well as their teachers, receive monetary awards.

For more information visit
www.trig-star.com

TRIG-STAR PROBLEM LOCAL CONTEST

ABC HOME CONSTRUCTION COMPANY HAS BEEN HIRED TO BUILD A NEW HOUSE ON LOT 22, AND HAS HIRED A SURVEYOR TO SURVEY THE LOT. THE SURVEYOR'S FIELD MEASUREMENTS ARE AS SHOWN. DETERMINE THE REQUIRED LOT DIMENSIONS BASED ON THE GIVEN FIELD MEASUREMENTS.



KNOWN: DISTANCE OS = 86.00' DISTANCE OE = 86.00' ANGLE AOB = 92°15'00"
DISTANCE OA = 86.00' DISTANCE OB = 86.00' DISTANCE OC = 142.00'
DISTANCE OD = 110.00' DISTANCE OE = 86.00' ANGLE EOB = 90°00'00"
ANGLE BOC = 121°00'00" ANGLE COD = 121°00'00" ANGLE ODC = 94°10'00"
ANGLE AOE = 100°00'00" ANGLE BOE = 100°00'00"

FOUND: ARC LENGTH AE = _____ (6 POINTS)
DISTANCE AB = _____ (6 POINTS)
DISTANCE BC = _____ (6 POINTS)
DISTANCE CD = _____ (6 POINTS)
CHORD LENGTH AE = _____ (6 POINTS)

REQUIRED ANSWER FORMAT: DISTANCES - NEAREST HUNDRETH

PAGE TOTAL: _____ POINTS

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Congratulations!

**Congratulations to all the examinees who passed the 2019 exams!
July 1, 2019 to December 31, 2019**

Fundamentals of Engineering

Bridget Abadie
Spencer Ables
Yasser Alzobaidi
Sheila Arias Roman
Jeff Bagley
Stephen Ball
Parshuram Bhusal
Eliza Bigham
Shelby Bottin
David Bridges
Taylor Carmichael
Myers Carpenter
Nicholas Chastain
Sean Cummins
Naim Daghmash
Matthew DeRocher
Dylan DeRosia
Zachary Donnelly
Alexander Drew
Justin Dugas
James Fildes

Samuel Folmar
Michael Gatlin
Samuel Glorioso
Caitlin Golding
Savanah Grass
James Hammer
Turner Harrod
David Henry
Donald Hopper
William Horner
Kyle King
Tyler Kozaritz
William Kyle
Ethan Laird
James Lawson
Madeline Lewis
William Lewis
Jeremiah Matthews
Federico Mendieta Ruiz
Caitlin Mikesell
Grady Miller

Anish More
Robert Otts
Timothy Parrish
Sara Raines
Jasiel Ramos-Delgado
Robert Rogers
Cade Scroggins
Lucas Simmons
Ronald Smith
Richard Snyder
Chandler South
Parker Sowers
Jonah Stevens
Wesley Toner
Derrick Troutman
Forrest Upchurch
Howard Weaver Jr.
Daniel Wells
Silas Whitaker
Locke Williams
Chase Wrenn
Nana Zhu

Principles & Practice of Engineering

Stephanie Bell
Justin Carter
William Clark
Randall Davis
Joshua Davis
Adam Edwards
Jeremy Greene
Levi Grundel
William Hendrix

Justin Hill
Hunter Hudson
Matthew Kirkland
Janie Knight
Joseph Lutz
Edith Martinez
Wesley McCain
Phillip Olivi
John Rushing

Garrett Smith
Quinton Stevenson
James Tobermann
William Van Landeghem
Ethan Veazey
Ethan Wise
Aaron Wright



**Congratulations to all the examinees who passed the 2019 exams!
(continued)**

Fundamentals of Surveying

Adam Hamby

Principles & Practice of Surveying

James Fraiser

Jason Greenwood

Troy Hill

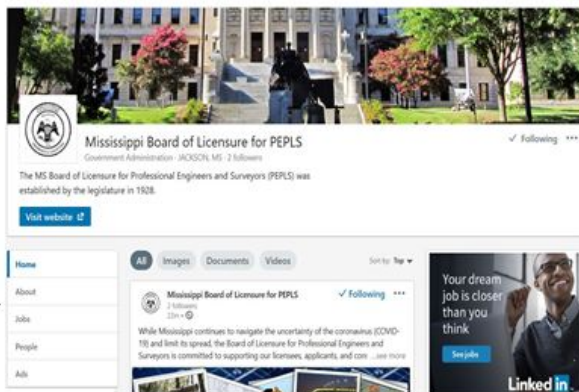
Mississippi 2-HR Professional Surveying Exam

Troy Hill

Carol Jackson

Jules Toups

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Meet the PEPLS Board

Mississippi Board of Licensure for Professional Engineers & Surveyors



Board President
Steven A. Twedt, PE
Biloxi, Mississippi
Post 5, 2nd District, Southern,
Appointment expires
05/31/2020



Board Vice President
Richard Thomas Tolbert, PS
Madison, Mississippi
Post 7, 1st District, Central,
Appointment expires
07/01/2020



Board Secretary
Bill Mitchell, PE/PS
Gulfport, Mississippi
Post 2, 2nd District, Southern,
Appointment expires
07/01/2021



Sarah Tracy, PE
Madison, Mississippi
Post 1, 1st District, Central,
Appointment expires
07/01/2020



Carey Hardin, PE
Starkville, Mississippi
Post 3, 3rd District, Northern,
Appointment expires
07/01/2022



Patrick Martino, PS
Biloxi, Mississippi
Post 8, 2nd District, Southern,
Appointment expires
07/01/2021



Michael Thornton, PS
Coffeetown, Mississippi
Post 9, 3rd District, Northern,
Appointment expires
07/01/2022



Joseph E. Lauderdale, PE
Jackson, Mississippi
Post 4, 1st District, Central,
Appointment expires
07/01/2019



Dr. Dennis D. Truax, PE
Starkville, Mississippi
Post 6, 3rd District, Northern,
Appointment expires
07/01/2017

Mississippi Board of Licensure for Professional Engineers & Surveyors

ADDRESS

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Follow us on Twitter!
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Meet the Agency staff

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Executive Director



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Board Investigator

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Licensing Officer

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Savannah Brown
Receptionist & Intern Enrollment Specialist

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Monica Gilmore
Staff & Communications Officer
E-mail: mgilmore@pepls.state.ms.us