

ASCE

SOUTHERN IDAHO SECTION

JULY ANNOUNCEMENTS

See the ballot form below to elect board members for the ASCE Southern Idaho Section, Younger Member Forum, and Snake River Branch. Please follow the directions on the ballot and submit your votes by the end of the day, August 7th.

Ballots submitted after August 7th will not be counted.

Follow Us On Social Media!



Congrats!

Congratulations to Dr. Mustafa Mashal, Ph.D., C. ENG., CP Eng., P.E., M.ASCE for being selected by the Alfred Noble Joint Prize Committee to receive the 2020 Alfred Noble Prize for his paper "Low Damage Seismic Design for Accelerated Bridge Construction" Journal of Bridge engineering, July 2019. We are so proud of you and your continuous contribution to the profession of Engineering!



His paper can be found in the ASCE Library

<https://ascelibrary.org/>

Follow Us On Social Media!



Meeting Announcement

Stay tuned for the upcoming September meeting announcement!

*Interested in presenting?
Contact Kip Davidson at kipd@horrocks.com if you are interested in presenting on a topic during the 2020 – 2021 year!*

Fall Graduate Courses – Boise State University

See below for a list of fall graduate courses offered by Boise State University including:

- Hydraulics
- Pavement Analysis & Design
- Structural Steel Design
- Geotechnical Engineering Design
- Geoenvironmental Engineering

If you have any questions, please contact Bhaskar Chittoori, Associate Chair, bhaskarchittoori@boisestate.edu

2020-2021 OFFICIAL BALLOT
SOUTHERN IDAHO SECTION - AMERICAN SOCIETY OF CIVIL ENGINEERS

Ballot to fill board positions for the Southern Idaho Section, Snake River Branch, and Younger Member Forum. Vote for the following positions. The nominees receiving the most votes will be placed on the Section, Branch or YMF Board. The Board will then vote on the position each successful nominee will be placed.

Submit your ballot on or before **August 7, 2020** via; email to mmcdonald@to-engineers.com, or mail to, T-O Engineers, c/o Michelle McDonald at 2471 S. Titanium Place Meridian, Idaho 83642.

You must be a current ASCE member to be eligible to vote and reside in the Southern Idaho Section to vote for the Section and YMF board positions. You must reside in the Snake River Branch boundaries to vote for the branch board positions (see attached map).

Please include your membership number and county of residence:

→ **ASCE Member Number:**

→ **County of Residence:**

Southern Idaho Section Board Positions (All SIS members may vote once for each position)

President:

☐ Lauren Nuxoll, PE, M.ASCE

☐ _____

President Elect/Treasurer:(Vote for 1, or Write In)

☐ Dan Zimmerman, PE, M.ASCE

☐ _____

Vice President:(Vote for 1, or Write In)

☐ Kip Davidson, PE, M.ASCE

☐ _____

2020-2021 OFFICIAL BALLOT
SOUTHERN IDAHO SECTION - AMERICAN SOCIETY OF CIVIL ENGINEERS

Secretary: (Vote for 1, or Write In)

☐ Sarah Kuhn, PE, M.ASCE

Professional Engineer with over 5 years' experience in environmental engineering and consulting. Graduated from the University of Minnesota in 2015, became a licensed PE in Montana in 2019, and moved to Boise in early 2020 to join the NewFields Mining and Energy Services team. My professional focuses have been in the design, construction, operation and maintenance of environmental remediation systems, as well as the remediation and monitoring of soil, groundwater, surface water, and air medias within the oil, gas, and mining industries. Personally, I am an avid outdoor enthusiast, aspiring home cook, and enjoyer of all things sci-fi and fantasy. Most weekends you can either find me exploring the outdoors, playing board or card games at home, or trying new recipes with my fiancé, Evan, and our pets Charlotte the dog and Henry the cat. I am new to Idaho and ASCE, but I am excited about the opportunity to get more involved with the engineering community here.

☐ Nawid Mousa, EI, M.ASCE

My name is Nawid Mohammad Mousa, I graduated from Boise State University in the Fall of 2014 with a Bachelor of Science Degree in Civil Engineering. I am currently serving as President of Southern Idaho Section Young Member Form (YMF). I have served as YMF's Secretary and Treasure. I was also a member of the ASCE Student Chapter at Boise State for four years. I actively participated in many facets of the Student Chapter, including my involvement as a member of the bridge design team. Currently, I am a staff engineer at River Structures Consulting. I enjoy being part of the Southern Idaho Section and would like to contribute more to the Section as an elected member of the Board.

☐ _____

2020-2021 OFFICIAL BALLOT
SOUTHERN IDAHO SECTION - AMERICAN SOCIETY OF CIVIL ENGINEERS

Southern Idaho Section YMF Board Positions (All SIS members may vote once for each position)

President:

☐ Lucas Marsh, PE, M.ASCE

☐ _____

President Elect/Treasurer:(Vote for 1, or Write In)

☐ Will Rice, PE, M.ASCE

☐ _____

Vice President:(Vote for 1, or Write In)

☐ Colton Bedke, PE, M.ASCE

☐ _____

Secretary: (Vote for 1, or Write In)

☐ Mir Tamim, PE, M.ASCE

☐ _____

Outreach Coordinator: (Vote for 1, or Write In)

☐ Gary Ratliff, EI, M.ASCE

My name is Gary Ratliff. I graduated from BYU-Idaho in April of 2019. I work at Keller Associates as a Project Engineer for transportation projects. Recently, I passed the PE Exam in October 2019 and I am currently working on my 4 years of experience to become a licensed engineer. I grew up in Southern California and now live in Idaho with my wife and daughter. I attended the ASCE student chapter at BYU-Idaho and recently was on a discussion panel to talk about civil engineering after college life with the student chapter. I want to serve in the Younger Member Forum Secretary capacity to be more involved with the professional community and to connect with other engineers in Idaho.

☐ _____

2020-2021 OFFICIAL BALLOT
SOUTHERN IDAHO SECTION - AMERICAN SOCIETY OF CIVIL ENGINEERS

Snake River Branch (SRB) Board Positions (Only SIS members residing in the SRB boundaries may vote once for each position)

President:

☐ Tyson Knudsen, PE, M.ASCE

☐ _____

President Elect: (Vote for 1, or Write In)

☐ Brent "Husk" Crowther, PE, M.ASCE

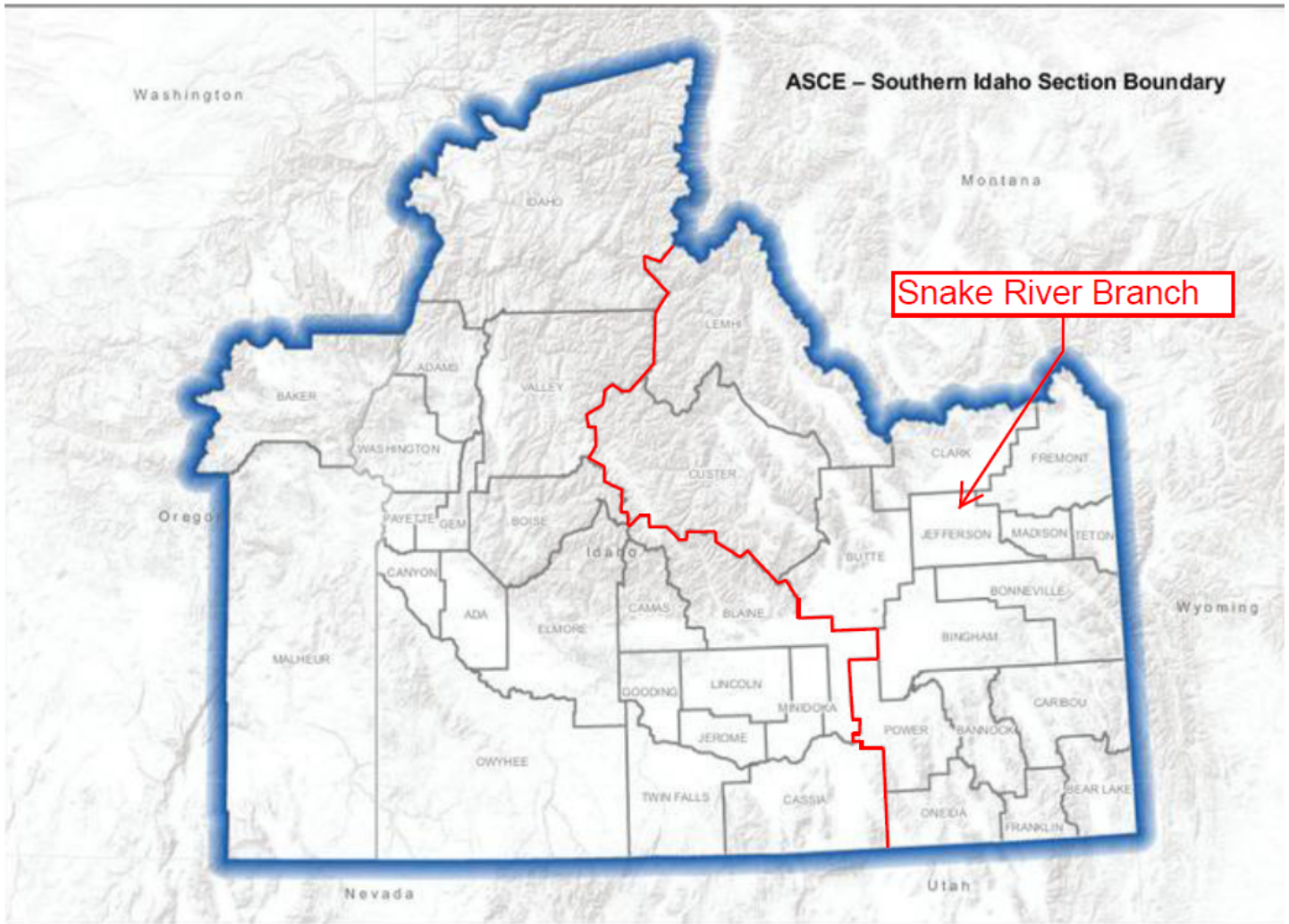
☐ _____

Secretary/Treasurer: (Vote for 1, or Write In)

☐ Nathan Harris, Ph.D., PE, M.ASCE

☐ _____

2020-2021 OFFICIAL BALLOT
SOUTHERN IDAHO SECTION - AMERICAN SOCIETY OF CIVIL ENGINEERS



Graduate Courses

Department of Civil Engineering

FALL 2020

Below is a list of courses being offered by the civil engineering department. These courses will be offered either as quasi online classes or Hybrid classes (50% of the students attend face-to-face in class and 50% attend remotely). All face-to-face sessions will be recorded and posted online.

CE 436/536 Hydraulics

Instructor: Mojtaba Sadegh, Ph.D.

Days/Times: Wed-Fri 12:00-1:15 PM

This course covers the basic physical principles that govern flow in open channels. Emphasis is on the physics of free-surface flow and includes: open channel flow design principles, uniform flow, gradually varied flow, steady and unsteady flows, and mechanics of sediment transport. Course will discuss conservation of mass, momentum and energy principles in a variety of natural and man-made channels to offer conceptual, analytical and mathematical skills to predict and describe the behavior of water flow. Computer aided analysis and engineering design with the U.S. Army Corps' HEC-RAS software (1D and 2D) is also exercised in this class.

CE 440/540 Pavement Analysis & Design

Instructor: Yang Lu, Ph.D., P.E.

Days/Times: Tue-Thu 3:00-4:15 PM

This is a combined senior undergraduate and graduate-level pavement design and analysis course. The course contents cover structural design principles of highway pavements; flexible and rigid pavement materials characterization, testing, and mix design; engineering analysis of stresses and strains in typical highway pavement structures due to loading from traffic and climate; and construction, maintenance and management aspects necessary for those who would like to work in the field of road infrastructure and pavement design. Furthermore, the course will introduce the Mechanistic-empirical (ME) analysis and design of highway pavements with the evaluation of current design practices, such as traffic consideration, pavement performance models, and actual thickness design of pavements using the AASHTO Pavement ME program. Several guest lectures on engineering practical topics, e.g. Superpave materials design, performance design specifications, and highway maintenance practices, will be offered by senior engineers from highway agencies and industry.



BOISE STATE UNIVERSITY

CE 452/552 Structural Steel Design

Instructor: Robert Hamilton, Ph.D., P.E.

Days/Times: Mon/Wed 1:30-2:45 PM & Fri 1.30-4.15 PM

This is a first course in the design of structural steel. This course will follow the methodology laid out by the American Institute of Steel Construction (AISC), using their current specifications. Students will learn to design components of a structure, such as beams and columns, while looking at multiple failure mechanisms. The course will primarily focus on strength design (LRFD), however, allowable stress design (ASD) will also be covered.

CE 460/560 Geotechnical Engineering Design

Instructor: Arvin Farid, Ph.D., P.E.

Days/Times: Mon-Wed 3:00-4:15 PM

This course is the first of a series of design courses focusing on geotechnical engineering. The course is more than an introductory course and focuses in depth on sequential tasks needed for geotechnical design of infrastructure from site investigation and soil exploration to design of shallow foundations, soil retaining structures, and deep foundations (with more focus on driven piles) under various conditions. Other geotechnical topics such as design of drilled shafts and earthquake impacts on design are also introduced and discussed. The course is currently required for graduate students within the Geotechnical & Geoenvironmental Engineering discipline and elective for other graduate and undergraduate students.

CE 497/597 Geoenvironmental Engineering

Instructor: Arvin Farid, Ph.D., P.E.

Days/Times: Tue 6:00-8:45 PM

This is an introductory course into the field geoenvironmental engineering ranging from introducing concepts and practices in geoenvironmental engineering, subsurface environmental problems, and (U.S.) geoenvironmental regulations to principles of soil-water-contaminant interactions, reactive transport, geochemistry, liners and barriers design for containment and landfill design, and remediation methodologies. The course is an elective course for both graduate and undergraduate students.

If you have any further questions please contact the Bhaskar Chittoori, Associate Chair, bhaskarchittoori@boisestate.edu



BOISE STATE UNIVERSITY