Message from the Chair of the Division
Dr. Charles Riley, Oregon Institute of Technology
charles.riley@oit.edu

Thank you to all of our members who published and presented this year in Tampa. And many thanks to our dedicated attendees who braved too-small rooms to gain insights and discuss the depth and breadth of civil engineering education. Congratulations again to this year’s awardees who have demonstrated excellence for us all and have served our profession so admirably. I look forward to this year as chair of the division. If there are any initiatives you would like to see the division take on, please let me know. While our primary activities revolve around the annual conference there may be more that we can do. Indeed, Steve Burian, your fearless program chair for this year, and others are already engaging other divisions to collaborate more effectively at the annual conference. I look forward to seeing you all again in Montreal!

Message from the Program Chair
Dr. Steven J. Burian, PE, University of Utah
burian@eng.utah.edu

Dear Friends! As we begin the fall semester, I wish to share two Civil Engineering Division highlights. First, I was in awe of CJ Riley and the Division Program he put together for the ASEE Annual Conference in Tampa this past June. CJ created an organized collection of thought-provoking sessions and productive meetings that was hotter than a Tampa afternoon. The quality of the papers and posters in these sessions was only exceeded by the quality of the social events. I wish to thank CJ for the incredible effort. I look forward to having his wise counsel as I take on the challenge of achieving the same level in Montreal in 2020. Second, you will have seen the call for papers for next year’s conference. We have an exciting program designed by the standing committees and through collaboration with numerous other divisions. Check it out and please consider sharing your great work in engineering education to advance our profession and provide yourself a rewarding experience. My very best wishes to you for a successful academic year!
The Civil Engineering (CE) Division seeks papers for presentation at the 2019 ASEE Annual Conference and Exposition to be held in Tampa, Florida, June 16-19, 2019. Paper submission is a two-step process: (1) Abstract submission, review, and acceptance; followed by (2) Paper submission, review, and acceptance. The submission and review process is double blind; do not include names of authors or institutions within the title or body of the Abstract. Abstracts are limited to 500 words and should provide a clear statement of the objectives of the work, its relevance to the civil engineering community, assessment methods used, and major findings. Authors of accepted Abstracts will be invited to prepare full papers for peer review.

**ASCE Liaison Committee**
Tom Lenox, tlenox@asce.org, 703.887.3320
Jim O’Brien, jobrien@asce.org, 703.295.6055
Leslie Nolen, lnolen@asce.org, 703.295.6106

**Educational & Professional Issues of Strategic Importance to the Civil Engineering Profession and ASCE**

ASCE has been working proactively to address several educational and professional issues of strategic importance to the future of the civil engineering profession. To this end, this session will explore several of the issues that are being addressed (or should be addressed) by ASCE. This might include, but is not limited to, the following topics:

- The “Raise the Bar” initiative – Where is ASCE going? Where should ASCE be going?
- The new *Civil Engineering Body of Knowledge, Third Edition* (BOK3):
  - A progress report from the leaders of the BOK3 Task Committee (BOK3TC).
  - Attaining the affective domain outcomes of BOK3.
  - The *User’s Guide* to BOK3.
  - BOK3 – perspectives of some department heads.
  - The Civil Engineering BOKs – the 15-year history of their development
- A Gap Analysis: BOK3 versus the accreditation criteria for civil engineering programs.
- The sociology of professions and the distinct & distinguished role of the civil engineering technologist.
- Should ASCE promote discipline specific licensure of engineers? If yes, how?
- The new changes to Criterion 3 and Criterion 5 of the EAC/ABET General Criteria – lessons learned from the “first to be evaluated.”
- ABET accreditation – neither necessary nor sufficient for ASCE’s strategic interests?
- The 2019 Civil Engineering Education Summit: design, processes, and expected outcomes.
- How can the ASCE/department head connection be strengthened?

**Committee on Effective Teaching**
Clifton Farnsworth, cfarnsworth@byu.edu
Jim Kaklamanos, kaklamanosj@merrimack.edu
Joel Lanning, joel.lanning@uci.edu

**Your Best in 5 Minutes: Demonstration of Hands on and Virtual In-Class Teaching Aids**

Short papers describing your most impactful classroom moments including demonstrations, student activities, or experiences. In this unique session, papers do not require a research question, data or conclusion. Presentations will be short (5 minutes!) and concise to give attendees many ideas during the presentation period. The demonstrations, accompanied with pedagogy-rich papers, could include physical models, interactive videos, or embedded technology. The audience will be active participants. All civil engineering sub-disciplines are welcome!

**Innovations in Introductory Civil Engineering Courses**

The division is interested in new ideas to improve the introduction to civil engineering experience. This includes course design, projects, and other innovations.
2020 ASEE Annual Conference  
Civil Engineering Division Call for Papers

**Vertical Integration of Design Through the Curriculum**

This session seeks examples of ways in which programs effectively integrate design from freshman through senior years.

**Committee on Instructional Technology**
Doug Schmucker, doug.schmucker@utah.edu  
Matthew Sleep, matthew.sleep@oit.edu

**Tales from the Flip Side**

Papers are requested that include data-driven results of hybrid and flipped learning and teaching models with a particular focus on modified and/or adapted approaches vis-à-vis traditionally defined alternative methods.

**Committee on Educational Policy**
Scott Hamilton, shamilton@ycp.edu  
Rodolfo Valdes-Vasquez, Rodolfo.valdes_vasquez@colostate.edu

**Connectedness and Belonging in the Civil Engineering Community**

We invite papers investigating best practices and successes in inclusion and diversity efforts intended to create a welcoming and supportive environment at all levels and aspects of civil engineering education.

**Creating a Culture of Integrity**

We invite papers exploring policies and practices that foster ethical behavior and development.

**Committee on Professional Practice**
Norb DeLatte, norb.delatte@okstate.edu  
Claire Dancz, cdancz@clemson.edu  
Matt Lovell, lovellmd@rose-hulman.edu

**Effective Approaches to Bring Engineering Practice into the Curriculum**

This session will review the effectiveness of methods of integrating engineering practice into the classroom. This might come through hiring or development of tenure track faculty, adjuncts, professors of practice, guest lectures, field trips, attending local professional society meetings, or others. Is there evidence to show which of these approaches are more effective?

**Applications of Sustainability Rating Systems in Civil Engineering Curriculum**

The Formal Engineering Education Committee, a subcommittee of ASCE Committee on Sustainability, seeks papers on the applications of sustainability rating systems (e.g., LEED, Envision, Living Building Challenge, Green Roads) in Civil Engineering curriculum. This session will provide an opportunity to share curricular materials, lessons learned, or related ideas pertaining to sustainability rating systems that address the environmental, social, and economic impacts of all types and sizes of infrastructure projects. Special emphasis on role of engaging practitioners in using sustainability rating systems and their potential to contribute instructional practice.

Above: Montreal, Canada.
Civil Engineering Division Awards
Presented at the 2019 Division Banquet

Stephen J. Ressler Best Paper Award
Susan Conrad, PhD, Portland State University
Kenneth Lamb, PhD, PE, California State Polytechnic University, Pomona
Timothy James Pfeiffer, PE, GE, Foundation Engineering, Inc.

The Stephen J. Ressler Best Paper Award is given for the best paper on a topic in civil engineering education, presented at the ASEE annual conference and published in the Proceedings in the year prior to the award. Each co-author is awarded an engraved plaque and one complimentary ticket to all CE Division social events at the ASEE annual conference at which the award is presented. The winning paper this year was entitled “Where Grammar, Content, and Professional Practice Meet: The Case of the Passive Voice.”

Large-Scale Experimentation in a Structural Steel Design Course,” which was a collaboration between Jenna Williams, Mark W. Wright, Michael J. Deigert, and Anahid Behrouzi. The award consists of a $500 reimbursement for conference registration. The recipient receives an ASEE certificate and is invited to attend CE Division events.

Glen L. Martin Practitioner Service Award
Craig Musselman, PE, Pres. CMA Engineers

The Glen L. Martin Practitioner Service Award is awarded to an engineering practitioner for distinguished service to or support of civil engineering education. While the recipient can be a former faculty member, the distinguished service must occur over a period of time when the recipient served as an engineering practitioner in a position not normally held by an engineering educator.

Gerald R. Seeley New Faculty Best Paper Award
Anahid A. Behrouzi, PhD, A.M.ASCE, California State Polytechnic University, San Luis Obispo
Mike Deigert, SE, California State Polytechnic University, San Luis Obispo

The Gerald R. Seeley Award is awarded to a civil engineering faculty member with five or fewer years of teaching experience. The basis for selection is the quality of a paper submitted for presentation in a CE Division session at the ASEE Annual Conference. This year’s paper was entitled “Exposing Undergraduates to Design, Fabrication, and

Above: Kenneth Lamb, Stephen J. Ressler Best Paper Award Recipient.

Above: Anahid Behrouzi and Mike Deigert, Gerald R. Seeley New Faculty Best Paper Award Recipients

Above: Craig Musselman, Glen L. Martin Practitioner Service Award Recipient
George K. Wadlin Distinguished Service Award
Al Estes, PhD PE, F.ASCE, California State Polytechnic University, San Luis Obispo

The George K. Wadlin Distinguished Service Award is given to a member of the Division for outstanding service in support of civil engineering education and the Civil Engineering Division of ASEE. The recipient is awarded an engraved plaque and a complimentary ticket to all CE Division social events at the ASEE annual conference.

ExCEEd New Faculty Teaching Award
Anahid A. Behrouzi, PhD, A.M.ASCE, California Polytechnic State University, San Luis Obispo

The award was established by ASCE’s Project ExCEEd and the Committee on Faculty development to recognize and reward outstanding new faculty. Nominees are judged based on a Letter of Endorsement from their current Department Chair/Dean, Curriculum Vitae, and Teaching Portfolio.

Thomas A. Lenox ExCEEd Leadership Award
Scott R. Hamilton, PhD, PE, F.ASCE, York College of Pennsylvania

The award honors an ASCE member who has shown exceptional leadership and dedication to educational activities within the organization and is presented at the American Society for Engineering Education Annual Conference.

ASCE Journal of Professional Issues Outstanding Associate Editor Award
(2017) Brock Barry, PhD, PE, F.ASCE, United States Military Academy
(2018) Mark Tumeo, PhD, PE, JD, F.ASCE

The Journal of Professional Issues in Engineering Education and Practice presents issues of broad professional interest and diverse views of engineering education, and professional practice. Topics include engineering education at all levels, professional practice issues, ethics, and history/heritage.
George K. Wadlin Distinguished Service Award

The George K. Wadlin Distinguished Service Award is given for outstanding service in support of civil engineering education. This award often goes to the most senior past division chair who has maintained strong contact with the division and provided strong support over the years. Sometimes, ASCE will have a candidate they would like to have considered because of their strong service to civil engineering education. Past award winners are displayed below.

<table>
<thead>
<tr>
<th>Year</th>
<th>Name</th>
<th>Year</th>
<th>Name</th>
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<tbody>
<tr>
<td>2018</td>
<td>Kevin Sutterer</td>
<td>2002</td>
<td>Vincent P. Drnevich</td>
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<td>2017</td>
<td>Norm Dennis</td>
<td>2001</td>
<td>Richard O. Anderson</td>
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<td>2016</td>
<td>Dennis Fallon</td>
<td>2000</td>
<td>William E. Kelly</td>
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<td>2015</td>
<td>Ronald W. Welch</td>
<td>1999</td>
<td>Donn E. Hancher</td>
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<td>2014</td>
<td>Kristen L. Sanford</td>
<td>1998</td>
<td>William J. Wilhelm</td>
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<td>2013</td>
<td>Jim Hanson</td>
<td>1997</td>
<td>Gerald R. Seeley</td>
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<td>2012</td>
<td>Wilfred Nixon</td>
<td>1996</td>
<td>Daniel J. McGinley</td>
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<td>2011</td>
<td>J.P. Mohsen</td>
<td>1995</td>
<td>E. Walter LeFevre</td>
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<td>2010</td>
<td>Jeffrey S. Russell</td>
<td>1994</td>
<td>Frederick W. Beaufait</td>
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<td>2009</td>
<td>Stewart G. Welsh</td>
<td>1993</td>
<td>James F. McDonough</td>
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<td>2007</td>
<td>Stephen J. Ressler</td>
<td>1991</td>
<td>Marvin E. Criswell</td>
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<td>2006</td>
<td>James M. Nau</td>
<td>1990</td>
<td>Ronald W. Eck</td>
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<td>2005</td>
<td>Alan L. Prasuhn</td>
<td>1989</td>
<td>Glen L. Martin</td>
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<td>2004</td>
<td>Howard C. Dunn, Jr.</td>
<td>1988</td>
<td>Peter G. Hoadley</td>
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<td>2003</td>
<td>Thomas A. Lenox</td>
<td>1987</td>
<td>George K. Wadlin</td>
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Gerald R. Seeley Award

The Gerald R. Seeley Award is awarded to a civil engineering faculty member with five or fewer years of teaching experience. The basis for selection is the quality of a paper submitted for presentation in a CE Divisions session at the ASEE Annual Conference. Past award winners are displayed below.

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<tr>
<td>2018</td>
<td>No recipient</td>
<td>2010</td>
<td>Steve Hart</td>
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<td>2017</td>
<td>Mary Katherine Watson</td>
<td>2009</td>
<td>Brock E. Barry</td>
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<tr>
<td>2016</td>
<td>Simon T. Ghanat</td>
<td>2008</td>
<td>Tanya Kunberger &amp; Diane Bondehagen</td>
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<td>2015</td>
<td>Nicole Leo Braxtan &amp; Goli Nossoni</td>
<td>2007</td>
<td>Decker Hains</td>
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<td>2014</td>
<td>Matthew D. Lovell</td>
<td>2006</td>
<td>Andrea Surovek</td>
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<td>2013</td>
<td>Berndt Spittka</td>
<td>2005</td>
<td>Scott R. Hamilton</td>
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<td>2012</td>
<td>Michelle Oswald</td>
<td>2004</td>
<td>Andrew T. Rose</td>
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<td>2011</td>
<td>Ellie Fini</td>
<td>2003</td>
<td>Tonya Emerson (Nilsson)</td>
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### Civil Engineering Division Officers 2019-2020

**Immediate Past Chair**  
Dr. Andrea L. Welker, PE  
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Professor  
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**Secretary-Treasurer**  
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(843) 953-6588

**Newsletter Editor**  
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The Citadel  
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(843) 953-7686

**Midterm Director**  
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Lecturer  
Santa Clara University  
[Email](mailto:tnilsson@scu.edu)  
(408) 554-6867

**Awards Chair**  
Dr. Brock Barry, PE  
Professor  
US Military Academy  
[Email](mailto:brock.barry@westpoint.edu)  
(479) 575-8695
M406·Writers, Experts, and the Workforce in Civil Engineering

Moderators: Dr. Norb Delatte P.E. and Dr. David A. Saftner

Strategies to Improve Engineers’ Writing of Executive Summaries by Dr. Cara N. Morton P.E (Washington State University) and Anna Karin Roo (Washington State University)

Workforce Development Needs and Objectives of Today’s Transportation Engineering Professional by Dr. Kevin Chang P.E. (University of Idaho, Moscow), Dr. Benjamin David Lutz (California Polytechnic State University, San Luis Obispo), and Dr. Shane A. Brown P.E. (Oregon State University)

Impact of an Embedded Expert Model on Course Transformation in Engineering by Dr. Molly McVey (University of Kansas), Dr. Caroline R. Bennett P.E. (University of Kansas), and Dr. Andrea Follmer Greenhoot (University of Kansas)

Comparison of Mentors’ and Mentees’ Perceptions of Mentees’ Research Skill Gains at The Citadel by Dr. Simon Thomas Ghanat P.E. (The Citadel), Dr. Mary Katherine Zanin (The Citadel), Dr. Dena Garner (The Citadel), Dr. Deirdre D Ragan (The Citadel), Dr. Jeffery M. Plumblee II (The Citadel), Dr. Daniel B. Bornstein (The Citadel), and Mr. John H. Lewis Jr (The Citadel)

U506·Active and Out There: Labs and Active Learning

Moderators: Dr. Matthew W Roberts P.E. and Mr. James Michael Thompson P.E.

Student Perceptions of High-Impact Learning Activities and Teaching Strategies by Dr. Veera Gnameswar Gude P.E. (Mississippi State University), Dr. Benjamin S. Magbanua Jr. (Mississippi State University), and Dr. James L. Martin P.E. (Mississippi State University)

Creating a Library of Group Activities that Promote Active Learning in the Undergraduate Soil Mechanics Classroom by Dr. Gretchen Bohnhoff P.E. (University of Wisconsin, Platteville) and Dr. Kristin M. Sample-Lord P.E. (Villanova University)

Learning by Doing: Collaborative Active Learning Hands-On Project-Based Homework for a Large Gateway Engineering Class by Dr. Ricardo Zaurin P.E. (University of Central Florida)

A Scavenger Hunt Activity to Welcome First-year Students to the Civil Engineering Department by Dr. Anne Dudek Ronan P.E. (New York University)

Using Your Campus as a Laboratory: An Adaptable Field Trip on Geomorphology for Engineering Geology by Dr. Kristin M. Sample-Lord P.E. (Villanova University), Dr. Virginia Smith (Villanova University), Prof. Patricia Gallagher P.E. (Drexel University (Eng. & Eng. Tech.)), and Dr. Andrea L. Welker (Villanova University)

M306·Innovation and Fun in the Civil Engineering Classroom

Moderators: Dr. Camilla M. Saviz P.E. and Dr. Joel Lanning P.E.

Assessment of Active and Team-based Learning Techniques in a Transportation Engineering Introductory Course by Dr. Alexandra Kondyli
(University of Kansas), Dr. Molly McVey (University of Kansas), and Christopher Patrick Melgares (University of Kansas)

**Using Themes and Pop Culture References to Make Introductory Civil Engineering Courses More Engaging** by Dr. Anthony Battistini (Angelo State University)

**Teaching and Assessment of Innovation and Creativity in Civil Engineering: Why? How? Now!** by Dr. Angela R. Bielefeldt (University of Colorado, Boulder) and Dr. Audra N. Morse P.E. (Michigan Technological University)

**Homework Assignment Self-Grading: Perspectives from a Civil Engineering Course** by Dr. Kevin Chang P.E. (University of Idaho, Moscow)

**Developing a Framework for Approaching Open-ended Problems Across the Civil and Environmental Engineering Curriculum** by Dr. Jennifer Mueller PE P.E. (Rose-Hulman Institute of Technology) and Dr. Michelle K. Marincel Payne (Rose-Hulman Institute of Technology)

Diversity, Inclusion and the ExCEEd Teaching Workshop by Dr. Allen C. Estes (California Polytechnic State University, San Luis Obispo)

**Civil Engineering Program Criteria: A Snapshot of How Programs Meet the Criteria** by Dr. Scott R. Hamilton (York College of Pennsylvania), Dr. David A. Saftner (University of Minnesota Duluth), and Dr. Camilla M. Saviz P.E. (University of the Pacific)

**The Role of the Civil Engineering Body of Knowledge in ASCE’s Raise the Bar Effort** by Horst Brandes (University of Hawaii), Mr. Eric L. Flicker (Pennoni Associates Inc.), and Ms. Kelly Dooley P.E. (American Society of Civil Engineers)

**The ASCE Raise the Bar Initiative: A New Paradigm Based on Credentialing in the Medical Profession** by Dr. Stephen J. Ressler P.E. (U.S. Military Academy) and Dr. Thomas A. Lenox Dist.M.ASCE, F.ASEE (American Society of Civil Engineers)

**M406: Your Best in 5 Minutes: Demonstrations of Hands-On and Virtual In-Class Teaching Aids**

*Moderators:* Dr. Luciana Barroso and Dr. Brock E. Barry P.E.

Improving Student Writing Outcomes Through Dynamic Feedback, Design Oriented Projects and Curriculum Modification by Mr. Matthew
2019 Annual Conference
Session Summaries

Willi Brand (University of California, Irvine) and Dr. Joel Lanning P.E. (University of California, Irvine)

A Simple Physical Model to Assist in Fluid Mechanics Calculations by Dr. Anne Dudek Ronan P.E. (New York University)

Work in Progress: Moving from Outside to Inside - Traffic Engineering Field Exercises through Virtual Reality by Dr. Elizabeth G. Jones (University of Nebraska, Lincoln), Mr. Mostafa Soltaninejad (University of Nebraska, Lincoln), and Claudia Ponce de Leon (Affiliation unknown)

Bringing Graphs Alive in Structural Dynamics by James M. Thompson (Carnegie Mellon University)

Fighting “Plug and Chug” Structural Design through Effective and Experiential Demonstrations by Joel Lanning (University of California, Irvine) and Dr. Matthew W. Roberts (Southern Utah University)

Pushing and Shoving: Improving Student Understanding of Support Reactions with Hands-on Demonstrations by Dr. Tonya Lynn Nilsson P.E. (Santa Clara University) and Dr. Laura Doyle (Santa Clara University)

The Critical Pick: A Crane Rigging Demonstration by Major David M. Flaherty (United States Military Academy)

Monitoring and Controlling a Construction Project in the Classroom by Col. Brad Wambleke P.E. (United States Military Academy) and Major Todd Mainwaring (United States Military Academy)

Experiencing Failure - Recreating the Hyatt Regency Collapse to Teach Statics, Ethics, and Lifelong Learning by Dr. Laura Doyle (Santa Clara University) and Dr. Tonya Lynn Nilsson P.E. (Santa Clara University)

Interactive Physical Experiments in an Advanced Undergraduate Structural Dynamics Course by Charles D. Facciolo (Daedalus Structural Engineering) and Dr. Anahid Behrouzi (California Polytechnic State University - San Luis Obispo)

T106B - It's All About the Student: Integration, Problem Solving, Critical Thinking, and Self-Efficacy

Moderators: Lt. Col. Jakob C Bruhl P.E. and Dr. Rajarajan Subramanian

Factors Contributing to the Problem-Solving Heuristics of Civil Engineering Students by Mr. Sean Lyle Gestson (Oregon State University), Dr. Shane A. Brown P.E. (Oregon State University), Mr. Matthew Stephen Barner (Oregon State University), Dr. Masoud Ghodrat Abadi (California State University, Sacramento), and Dr. David S. Hurwitz (Oregon State University)

Measuring Undergraduate Student Design Self-Efficacy within an Undergraduate Civil Engineering Curriculum by Dr. Mary Katherine Watson (The Citadel), Dr. William J. Davis P.E. (The Citadel), Dr. Timothy W. Mays (The Citadel), Dr. Ronald W. Welch P.E. (The Citadel), and Prof. John C. Ryan (The Citadel)

Student-Facilitated Online Discussions to Encourage Critical Thinking in Civil Engineering by Dr. Aliye Karabulut Ilgu (Iowa State University) and Sühan Yao (Iowa State University)
Work in Progress: Integrating Civil Engineering Design Software into the Curriculum to Enhance Career Readiness Skills by Prof. Todd M. Brown P.E. (University of Hartford), Dr. David Pines (University of Hartford), and Mr. Don Quinn

E-Learning Tools to Facilitate Instruction of a Large Enrollment Structural Engineering Course by Ms. Maelle van Thienen (University of Auckland, New Zealand), Dr. James Boon Piang Lim (University of Auckland), Dr. Anahid Behrouzi (California Polytechnic State University, San Luis Obispo), Mr. Pablo Garcia (Xorro Solutions Ltd), and Mr. Wyatt Banker-Hix P.E. (California Polytechnic University, San Luis Obispo)

Board 16: Work in Progress: Design of “Risk and Resilience” Focused Courses for Undergraduate Engineering Education Towards a Hazard-Resilient Built Environment by Prof. Lei Wang P.E. (University of the District of Columbia), Dr. Pradeep K. Behera P.E. (University of the District of Columbia), Dr. Sasan Haghani (University of the District of Columbia), and Dr. Jiajun Xu (University of the District of Columbia)

T306·Civil Engineering Division Poster Session

Moderator: Dr. Steven J. Burian P.E.

Board 17: Design and Small-Scale Testing of 3D Printed Seismic Isolators by Dr. Jenna Wong P.E. (San Francisco State University), Ms. Lakshmi Priya Lakshimipathy (Indian Institute of Technology, Madras), Mr. Panfilo Jesus Armas (Affiliation unknown), Mr. Andres Ernesto Paredes (Affiliation unknown), Chris Park (Affiliation unknown), and Jorge Antonio Campos (Affiliation unknown)

Board 15: Introducing Students to Engineering by Helping Them RePicture Their World by Lynn Mayo P.E. (RePicture Engineering, PBC) and Carolyn Breden Voter (University of Wisconsin-Madison)

T506·Tales from the Flip Side

Moderators: Dr. Matthew Sleep and Dr. Mary Katherine Watson

Call It What You Want: Blending Project-based Learning and the Flipped Classroom Model in a Civil Engineering Course by Dr. Angel Ari Perez-Mejia (Quinnipiac University)
Design and Preliminary Data from a Partially Flipped Classroom (PFC) Study in a Geotechnical Engineering Course by Dr. Kimberly Warren (UNC Charlotte) and Meagan Padro (UNC Charlotte)

Flipping the Classroom - Do Student Learning Gains and Perceptions Vary Based on Gender? by Dr. Laura Doyle (Santa Clara University) and Dr. Tonya Lynn Nilsson P.E. (Santa Clara University)

Evaluation of a Flipped Classroom in Structural Steel Design by Dr. Brian J. Smith (University of Notre Dame)

Exposing Undergraduates to Design, Fabrication, and Large-Scale Experimentation in a Structural Steel Design Course by Jenna Williams (California Polytechnic State University, San Luis Obispo), Mr. Mark William Wright LEED Green Associate (California Polytechnic State University, San Luis Obispo), Mr. Michael James Dietz (California Polytechnic State University), and Dr. Anahid Behrouzi (California Polytechnic State University, San Luis Obispo)

Longitudinal Integration of the Same Design Project in Multiple Structural Engineering Courses by Dr. Matthew Swenty P.E. (Virginia Military Institute), Dr. Benjamin Z. Dymond (University of Minnesota Duluth), and Ms. Sara Ojard (Affiliation unknown)

Bias and Precision in Instructor Grading of Concept Inventories in Geotechnical Engineering Courses by Dr. Simon Thomas Ghanat P.E. (The Citadel), Dr. James Kaklamanos (Merrimack College), Dr. Tanya Kunberger P.E. (Florida Gulf Coast University), Dr. Corrie Walton-Macaulay Ph.D., P.E. (Saint Martin's University), Dr. Suresh Immanuel P.E. (University of Evansville), Dr. David A. Saftner (University of Minnesota Duluth), Dr. Brock E. Barry P.E. (U.S. Military Academy), Shawn Griffiths (University of Wyoming), Dr. Craig M. Shillaber (Northeastern University), and Dr. Chris Swan (Tufts University)

A Collaborative Process Leading to Adoption of ASCE BOK3 Consistent with ABET by Dr. Kevin G. Sutterer (Rose-Hulman Institute of Technology), Dr. John Aidoo (Rose-Hulman Institute of Technology), Prof. James H. Hanson P.E. (Rose-
Addressing the Cognitive and Affective Domain of Ethics Across the Civil and Environmental Engineering Curriculum by Dr. Jennifer Mueller PE P.E. (Rose-Hulman Institute of Technology), Dr. Matthew D. Lovell (Rose-Hulman Institute of Technology), and Dr. Michael Robinson P.E. (Rose-Hulman Institute of Technology)

Civil Engineering: A Liberal Education Degree of the 21st Century by Dr. Emily F. Cutrer (Texas A&M University-Texarkana), Miss Melissa M. Nelson, and Dr. James K. Nelson Jr. P.E. (Texas A&M University System)

Is it Time for a Three-Year Accredited Civil Engineering Degree in the United States? A Critical Review by Dr. Brian J. Swenton P.E. (University of Evansville) and Dr. Matthew Swenton P.E. (Virginia Military Institute)

W406·The Civil Engineering Body of Knowledge, 3rd Edition: Preparing the Future Civil Engineer

Moderators: Dr. Thomas A. Lenox, Dist.M.ASCE, F.ASEE and Ms. Leslie Nolen

The Evolution of the Civil Engineering Body of Knowledge: From the First Edition to the Third Edition by Dr. Decker B. Hains (Western Michigan University), Dr. Kenneth J. Fridley (University of Alabama), Dr. Thomas A. Lenox Dist.M.ASCE, F.ASEE (American Society of Civil Engineers), Ms. Leslie Nolen CAE (American Society of Civil Engineers), and Mr. James J. O’Brien Jr. (American Society of Civil Engineers)

The 5Ws of the Third Edition of the Civil Engineering Body of Knowledge by Dr. Kenneth J. Fridley (University of Alabama), Dr. Decker B. Hains (Western Michigan University), and Ms. Leslie Nolen CAE (American Society of Civil Engineers)

Constituent Input in the Process of Developing the Third Edition of the Civil Engineering Body of Knowledge (CEBOK3) by Dr. Angela R. Bielefeldt (University of Colorado, Boulder), Dr. Brock E. Barry P.E. (U.S. Military Academy), Dr. Kenneth J. Fridley (University of Alabama), Ms. Leslie Nolen CAE (American Society of Civil Engineers), and Dr. Decker B. Hains P.E. (Western Michigan University)

Achieving the Civil Engineering Body of Knowledge in the Affective Domain by Dr. Norman D. Dennis Jr. P.E. (University of Arkansas) and Dr. Decker B. Hains P.E. (Western Michigan University)

The CEBOK3 and ABET Accreditation Criteria: A Gap Analysis by Dr. Kenneth J. Fridley (University of Alabama), Dr. Decker B. Hains (Western Michigan University), Dr. Audra N. Morse P.E. (Michigan Technological University), and Ms. Leslie Nolen CAE (American Society of Civil Engineers)

Session W306 presenters.
Curricular Changes Needed to Conform to the CEBOK3 – Three Case Studies by Dr. Kenneth J. Fridley (University of Alabama), Dr. Angela R. Bielefeldt (University of Colorado, Boulder), Dr. Kevin G. Sutterer P.E. (Rose-Hulman Institute of Technology), Dr. Derek Guthrie Williamson (University of Alabama), and Dr. W. Edward Back (University of Alabama)

Department Head Perspectives on the Current CEPC and the BOK3 by Dr. Norb Delatte P.E. (Oklahoma State University), Dr. Brock E. Barry P.E. (U.S. Military Academy), Dr. Audra N. Morse P.E. (Michigan Technological University), and Dr. Camilla M. Saviz P.E. (University of the Pacific)

W506: Sustainability in Civil Engineering Education: Service Learning, Capstone Integration, Student Affect and Rating Systems

Moderators: Dr. Claire L. A. Dancz and Dr. Matthew D. Lovell

Education for Sustainable Civil Engineering: A Case Study of Affective Outcomes among Students by Dr. Angela R. Bielefeldt (University of Colorado, Boulder)

Sustainability Service Learning as a Mechanism for Acquiring New Knowledge by Dr. Deborah Besser P.E. (University of St. Thomas), Dr. Travis Welt (University of St. Thomas), Hannah Dasyam (University of St. Thomas), and Dr. Tripp Shealy (Virginia Tech)

A Real-World Approach to Introducing Sustainability in Civil Engineering Capstone Design by Dr. Leslie R. Brunell P.E. (Stevens Institute of Technology (School of Engineering and Science))

Lessons Learned: Applications of Sustainability Rating Systems in Civil Engineering Capstone Design Courses by Dr. Norb Delatte P.E. (Oklahoma State University) and Mrs. Tricia Heather Hatley (Freese and Nichols, Inc)

Advancing Freshmen Engineering Education by Utilizing the Impact of 2017 Storms on U.S. Infrastructure by Dr. Jagadish Torlapati (Rowan University), Dr. Ralph Alan Dusseau P.E. (Rowan University), Mr. Tri Tam Nguyen (Affiliation unknown), Mr. Tony Andrew Carlino (Rowan University), and Ms. Victoria Lee Barry (Rowan University)
Historian’s Report

Important Notes

CE Division’s Historical Files

The Historian maintains many administrative documents (agendas, minutes, and treasurer reports), past newsletters, and approximately 30 hard copies of the booklet ASEE Civil Engineering Division – Divisions Chairs 1935-1993. These files are fairly complete for the period from 1975 to the present. There are no documents on file for any date prior to 1975. And the Historian maintains a database of Division Officers and award winners between 1975 and the present – available upon request. The newest Award winners will be added to the CE Division web site every other year. So CHECK IT OUT!

Inventory of Division Newsletters

Our semiannual newsletters are a valuable source of historical information. In 2006, we scanned our entire inventory of past newsletters into PDF files. This inventory has been continually updated since 2006, and was maintained on a website by our past Webmaster, but has been moved to the ASEE website.

ASEE Civil Engineering Division – Divisions Chairs 1935-1993 and Beyond

Single copies of ASEE Civil Engineering Division, Division Chairs, 1935-1993 will be distributed free of charge to any Division member upon request. I have 10 copies set aside for historical purposes. To supplement Division Chairs, 1935-1993, The Historian has been collecting the pictures and biographies of all Division Chairs for the years since 1993. We have obtained a short biographical sketch and an acceptable head-and-shoulders color picture from all of our Past Chairs between 1993 and 2016. This document has been posted as a more “dynamic – i.e., COLOR” Division Chairs document to the Division web site. So CHECK IT OUT!

Special Thanks to our Division members!

As you will note from the trivia questions, many of our past leaders have retired or stopped participating in our annual conference. Please help me congratulate all of our long-standing members who were part of division activities prior to 2012! Let’s celebrate our future by asking those that have been participating since 2012 to be recognized! All of us must reach out to our CE faculty peers and get them involved both at the regional and national level of ASEE! We must mentor others as they have mentored so many of us to ensure we have a terrific Division with great programs, engaged members, and outstanding leaders. May we all continue to “Raise the Bar!” There is still much work to be done to continually produce the civil engineering leaders of tomorrow.

Ronald W. Welch
The Historian (2011- )
Dean of Engineering, The Citadel
Phone: (843) 953-6588
Email: ronald.welch@citadel.edu
Historian’s Report  
Division Trivia

30 Years Ago (AY 1988-89)
- The Division Chair was ______________ of Tennessee Technical University.
- The freshman Director was _______...he liked to wear shorts!
- The annual conference was held in _______. Theme was _______ make the Difference.
- A Division focus was on software and the biggest problem seems to be ________.

25 Years Ago (AY 1993-94)
- The Division Chair was ________ of the University of New Hampshire.
- The annual conference was held in __________________________.
- The balance is the Division’s BASS Account was $14,251.

20 Years Ago (AY 1998-99)
- The Division Chair was ___________ of the Lawrence Technological University.
- The annual conference was held in ________________________.
- The Executive Board expressed their concern about using the name “RAP Session” for the Monday evening event – stating that “the name is an anachronism” and “the words conjure up an image of 40-50 __________ men sitting in a large circle.” After formally polling the Division membership, it was decided that the name of the event should be ________ Session.
- The relatively new ASCE Director of Educational Activities (__________) briefed the Division about the first-ever ExCEED Teaching Workshop – to be held in the ______ at the ____________________ led by ________________________.
- Much of the discussion during the R.A.P. Session was devoted to the new policy passed by ASCE in October 1998 – Policy Statement # 465 titled “__________________.”

15 Years Ago (AY 2003-04)
- The Division Chair was ______________ of Purdue University.
- The annual conference was held in ________________________.
- The most well-attended technical session was called “The Fundamentals of Fun.” One of the papers presented in this session was “If She Weighs the Same As a ________ Then She’s a _____________ – Using A Classic Monty Python Movie to Stimulate Transfer of Learning.” By ________________.

10 Years Ago (AY 2008-09)
- The Division Chair was _____________ from The Citadel.
- The annual conference was held ________________.
- The most attended sessions dealt with new ____________________.
- The most fun at the conference was riding the mechanical bull by ________________.

5 Years Ago (AY 2013-14)
- The Division Chair was ________________ from the University of Iowa.
- The annual conference was held ________________.
- The Division sponsored 11 Sessions with one focused on assessment of ‘__________ ABET Outcomes’ and another ‘Beyond BS: Issues Affecting __________’.
### Historian’s Report

#### Past Conferences

<table>
<thead>
<tr>
<th>Year</th>
<th>Annual Meeting</th>
<th>Chair</th>
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<tbody>
<tr>
<td>2018-2019</td>
<td>Tampa, FL</td>
<td>Andrea Welker</td>
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<tr>
<td>2017-2018</td>
<td>Salt Lake City, UT</td>
<td>Sean St. Clair</td>
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<tr>
<td>2016-2017</td>
<td>Columbus, OH</td>
<td>Brock Barry</td>
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<tr>
<td>2015-2016</td>
<td>New Orleans, LA</td>
<td>Kevin Hall</td>
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<td>2014-2015</td>
<td>Seattle, WA</td>
<td>Yusuf Mehta</td>
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<tr>
<td>2013-2014</td>
<td>Indianapolis, IN</td>
<td>Matthew Roberts</td>
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<tr>
<td>2012-2013</td>
<td>Atlanta, GA</td>
<td>M. Asghar Bhatti</td>
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<tr>
<td>2011-2012</td>
<td>San Antonio, TX</td>
<td>Shashi Nambisan</td>
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<td>2010-2011</td>
<td>Vancouver, BC, CAN</td>
<td>Kevin Sutterer</td>
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<td>2009-2010</td>
<td>Louisville, KY</td>
<td>Norm Dennis</td>
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<td>2008-2009</td>
<td>Austin, TX</td>
<td>Dennis Fallon</td>
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<td>2007-2008</td>
<td>Pittsburgh, PA</td>
<td>Ron Welch</td>
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<td>2006-2007</td>
<td>Honolulu, HI</td>
<td>Kristen Sanford Bernhardt</td>
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<td>2005-2006</td>
<td>Chicago, IL</td>
<td>Jim Hanson</td>
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<td>2004-2005</td>
<td>Portland, OR</td>
<td>Wilf Nixon</td>
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<td>Vince Drnevich</td>
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<td>Nashville, TN</td>
<td>Steve Ressler</td>
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<td>2001-2002</td>
<td>Montreal, Quebec, CAN</td>
<td>J. P. Mohsen</td>
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<td>Sam Clemence</td>
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<td>1999-2000</td>
<td>St. Louis, MO</td>
<td>Jim Nau</td>
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<td>1998-1999</td>
<td>Charlotte, NC</td>
<td>Alan Prasuhn</td>
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<td>Milwaukee, WI</td>
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<td>Edmonton, Alberta, CAN</td>
<td>Bob Henry</td>
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<td>University of Illinois at Urbana-Champaign, , IL</td>
<td>Fred Beaufait</td>
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<tr>
<td>1990-1991</td>
<td>New Orleans, LA</td>
<td>M. Dean Parsons</td>
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## Historian’s Report
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<tr>
<th>Year</th>
<th>Annual Meeting</th>
<th>Chair</th>
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<tr>
<td>1989-1990</td>
<td>Toronto, Ontario, CAN</td>
<td>William Highter</td>
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<td>1988-1989</td>
<td>Lincoln, NE</td>
<td>Noel Tolbert</td>
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<td>1987-1988</td>
<td>Portland, OR</td>
<td>Mardith Thomas</td>
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<tr>
<td>1986-1987</td>
<td>Reno, NV</td>
<td>Gerald Seeley</td>
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<td>1985-1986</td>
<td>Cincinnati, OH</td>
<td>Colby Ardis</td>
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<td>1984-1985</td>
<td>Atlanta, GA</td>
<td>Roger Seals</td>
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<td>1983-1984</td>
<td>Salt Lake City, UT</td>
<td>Ron Eck</td>
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<td>1981-1982</td>
<td>Texas A&amp;M University, College Station, TX</td>
<td>Marvin Criswell</td>
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<td>1980-1981</td>
<td>University of Southern California, Los Angeles, CA</td>
<td>Gordon Batson</td>
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<td>University of Massachusetts, Amherst, MA</td>
<td>Eugene Chesson</td>
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<td>1978-1979</td>
<td>Louisiana State University, Baton Rouge, LA</td>
<td>Donald L. Bender</td>
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<tr>
<td>1977-1978</td>
<td>University of British Columbia, Vancouver, CAN</td>
<td>William J. Wilhelm</td>
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