

December 2018

EDITOR:

Jeff Kastner, University of Cincinnati

The Chair's Message



Greetings from Erie, Pennsylvania! I hope your Fall Semester has gone well and is winding down nicely. I want to take this opportunity to provide you with a brief “state of affairs” for the ASEE North Central Section.

Elections: The results of the 2018 elections for ASEE NCS Board positions were announced at the ASEE North Central Section Conference (NCS). A new meet the Executive Board Members section has been added to the newsletter (see Page 3) Nicholas Baine (Grand Valley State University) was elected for a one-year term as Vice-Chair. Stefanos Papanikolaou (West Virginia University) and David Sanchez (University of Pittsburgh) were elected as directors for two-year terms. Mahender Mandala was elected as director for one-year term. We welcome our new Executive Board

members and look forward to working together. The complete list of our officers appears at the end of the newsletter.

Future Section Conferences: The Spring 2019 NCS conference will be held at Grand Valley State University in Grand Rapids, MI from March 22-23 (see more details on Page 4). The ASEE NCS regional conference has been averaging more than 120 attendees each year, with 60 to 70 peer-reviewed paper presentations from undergraduate and graduate students and faculty. This conference is a great opportunity for you to present your scholarship and teaching as well as a chance for your students to present their work in a professional setting. As always, we strive to keep registration and other costs affordable. Please consider joining us next spring at Grand Valley State University for a great regional conference! It has also been determined that our 2020 Spring conference will be hosted by West Virginia University; and the 2021 Spring conference will be at the University of Toledo.

Section Awards

I will encourage you to become involved with ASEE by nominating your colleagues for the Section Teaching Award (see Page 2 for more details), participating in our section’s regional conferences, and submitting your work and your students’ work to the section conference. I hope you see you at the 2019 ASEE-NC Section Conference at Grand Valley State.

Best regards,

Karinna M. Vernaza, Ph.D.

Future Events:

- ✓ Spring 2019: ASEE – North Central Sectional Conference
 - March 22-23, Grand Valley State University, Rapids, MI
 - See Page 4 for more details
- ✓ Summer 2018: ASEE Annual Conference
 - Tampa Bay, Florida, See Page 6 for more Details
- ✓ Spring 2020: ASEE – North Central Sectional Conference
 - West Virginia University, Morgantown, W.V.
- ✓ Spring 2021: ASEE – North Central Sectional Conference
 - The University of Toledo, Toledo, Ohio

Executive Board Members:

- ✓ Meet re-elected and new Executive Board Members (see Page 3)
- ✓ Updated list see Page 7

Upcoming Deadlines:

- ✓ **Abstracts** submission for the 2019 ASEE-NCS conference
 - **December 22, 2018**
 - See Page 4 for more details
- ✓ **Nominations** for the 2019 ASEE-NCS Outstanding Teaching Award
 - **January 15, 2019**
 - See below for more details

2019 NCS Outstanding Teaching Award

Nomination for the ASEE NCS Member due January 15, 2019.

The process for nominations for the ASEE North Central Section (NCS) Outstanding Teaching Award will open in November. Candidates for the award must be submitted using the on-line system at the ASEE Nationals Website. Members of ASEE who wish to nominate someone must Log In at:

<https://www.asee.org/> Select the ASEE Award Nominations topic, and scroll down and select the ASEE Section Outstanding Teaching Award for NCS. Select the member of ASEE NCS you wish to nominate, and upload the nomination materials. Review topics to be addressed as part of the “Accomplishments” for the nominee at: <http://www.asee.org/member-resources/awards/guidelines/awards-nomination-guidelines>

The Award: The award consists of a certificate, prepared by ASEE National Headquarters, and a \$750 honorarium, presented by the North Central Section. Presentations are made at the spring conference with notation in the ASEE Annual Awards Banquet Program. **Note: Travel to the conference is not included in the award.**

All nominations must be submitted on-line through the ASEE National website:

<https://www.asee.org/>

Meet the Re-Elected and New ASEE- NCS Executive Board Members



Dr. Nicholas Baine, ASEE-NCS Vice Chair

Assistant Professor, Electrical Engineering, Grand Valley State University

Ph.D. in Engineering, *Wright State University, Dayton, OH*

Dr. Baine's research interests include electronic navigation and control systems. His recent work has been in both the area of integrity monitoring of vision based navigation systems as well as the repurposing and control of large-scale lithium-ion battery packs



Dr. Stefanos Papanikolaou, ASEE-NCS Director

Assistant Professor, Dept. of Mechanical and Aerospace Engineering, and Dept. of Physics, West Virginia University

Ph.D. in Physics, University of Illinois, Urbana-Champaign

Dr. Papanikolaou's primary research interest is in statistical and multiscale physical modeling approaches of mechanical behavior of materials. The aim is to develop reduced-order models and machine learning approaches to provide non-trivial classification of large data sets. His main teaching interests are crystal plasticity, statistical mechanics, gas dynamics and kinetic theory, numerical methods in engineering, thermodynamics, solid mechanics, mechanics of materials. He is also interested in developing online courses and using online tools for facilitating active learning in engineering classrooms.



Dr. David Sanchez, ASEE-NCS Director

Assistant Professor, Civil and Environmental Engineering, Univ. of Pittsburgh

Ph.D. in Civil and Environmental Engineering, University of Pittsburgh

Dr. Sanchez's research include areas within Sustainable and Environmental Engineering: analytical Chemistry for water quality, real-time sensor design (rivers, green infrastructure, aquaculture, hydroponics), Bio-electrochemical system materials, Modeling Global/National Water Use intensities. His Engineering Education research focuses particularly in the areas of Sustainability ABET outcomes, Student Well-being and Habits, Academic Integrity, and Design Teams.



Dr. Mahender Mandala, ASEE-NCS Director

Visiting Assistant Professor, Dept. of Bioengineering, Univ. of Pittsburgh

Ph.D. in Rehabilitation Science, University of Pittsburgh

Dr. Mandala's research interests include Assistive Technology, Rehabilitation Engineering, Design Research, Medical Product Design, and Engineering Education. He has been involved in the development of a digital design critique tool for use within engineering design education. He is actively involved in the Freshmen Engineering Program and enjoys teaching Engineering Design and Computing.

2019 ASEE - North Central Section Conference

Engineering Education and Industry: Finding the Balance between Practice and Theory



**Grand Valley State University
Grand Rapids, MI
March 22 – 23, 2019**



Abstract are due on December 15th and are submitted through the conference paper management systems: <https://openconf.org/ASEENCS2019/openconf.php>



Please go to <https://www.gvsu.edu/engineering/asee-ncs-conference-information-176.htm> to access information about the conference. Shown below is the home page, which provides links for all necessary information including abstract deadlines, registration, and accommodations.


GRAND VALLEY STATE UNIVERSITY

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ASEE AMERICAN SOCIETY FOR
ENGINEERING EDUCATION

ASEE NCS Conference Information

2019 American Society for Engineering Education

NORTH CENTRAL SECTION CONFERENCE

MARCH 22-23, 2019

GRAND VALLEY STATE UNIVERSITY
301 WEST FULTON STREET
GRAND RAPIDS, MICHIGAN 49504

HOST SITE INFORMATION

College of Engineering and Computing
School of Engineering
Planning Committee - *Coming Soon!*

Email Planning Committee

AUTHOR AND REVIEWER INFORMATION

Call for Papers
Author's Kit
Paper & Abstract Submission Instructions

Paper Submission System
Criteria for Best Paper Awards
Call for Reviewers - *Coming Soon!*

Lists of Reviewers - *Coming Soon!*

LOGISTICS

Hotel Accommodations
Registration - *Coming Soon!*
Interactive Map of Parking/Conference Locations

We have a conference rate set up at the Holiday Inn a block from the School of Engineering. For reservations, mention GVSU ASEE NCS 2019.

<https://www.hlgdt.com/>

Note: We have two campuses. ASEE NCS 2019 will be held downtown Grand Rapids at the School of Engineering.

PDF Map of Parking/Conference Locations

ASEE NCS 2019 is being held at Kennedy Hall of Engineering and the L.V. Eberhard Center.

Conference parking is in the Fulton Lot.

PROGRAM INFORMATION

Schedule at a Glance - *Coming in Spring!*
Schedule - *Coming in Spring!*
Proceedings - *Coming in April!*

List of Authors - *Coming in Spring!*

OTHER SECTIONAL INFORMATION

ASEE North Central Section Website
Past & Future ASEE NCS Conferences

2019 ASEE Annual Conference & Exposition

Tampa, FL | June 16–19, 2019

Join us for the 126th Annual Conference & Exposition!
Tampa Convention Center
Tampa, Florida
June 15 - 19, 2019

*The only conference dedicated to all disciplines of
engineering education...*

We are committed to fostering the exchange of ideas, enhancing teaching methods and curriculum, and providing prime networking opportunities for engineering and technology education stakeholders such as: deans, faculty members, and industry and government representatives. The conference features more than 400 technical sessions, with peer-reviewed papers spanning all disciplines of engineering education.

For more information:

<https://www.asee.org/conferences-and-events/conferences/annual-conference/2019>



<https://www.tampagov.net/tcc/home>

ASEE NORTH CENTRAL SECTION EXECUTIVE BOARD

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