

2010 ITEEA Presentations by NCETE Collaborators

| Thursday, March 18 | Friday, March 19 |
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| <p>11:00-11:50am Hilton, Gwynn Room (4th floor) Research and Practice for Engineering Professional Development Recommendations for research and practice for engineering-oriented professional development at the secondary level will be presented, based on two national symposia and previous research. <i>Presenters: Jenny Daugherty, Rodney Custer, DTE, Tom Erekson, DTE, Daniel Householder, DTE, and Joe Meyer</i></p> | <p>7:00am–8:45am FTE Spirit of Excellence Breakfast Location: Hilton Charlotte Cost: \$25; ticket required Featured Speaker: Roger Hill, University of Georgia Description: This breakfast is a celebration of excellence and recognition of outstanding individuals who are destined to become the next generation of leaders in the profession. The main presenter will be Roger Hill who will speak on the topic of "Excellence" from his perspective as a national leader with considerable experience in our profession. Recognition of 21st Century Fellows <i>William Havice, DTE, and Roger Hill</i></p> |
| <p>1:00pm–1:50pm CCC, Room 211B Infuse Engineering Design Into Your STEM Classes Teachers learn to infuse hands-on engineering design into STEM classes. Supervisors learn how engineering design can become an important part of teacher professional development. <i>Presenters: Mauricio Castillo, Vincent Childress, and Ethan Lipton, DTE,</i></p> | <p>11:00am–11:50am Hilton, Gwynn Room (4th floor) Learning Effects and Attitudes of Design Strategies on Secondary Students Using experimental design methodology, two technological design strategies (predictive analysis and trial-and-error) were compared to measure learning and attitudinal effects of high school students. <i>Presenters: Robert Wicklein, DTE, and John Mativo</i></p> |
| <p>2:00pm–2:50pm CCC, Room 218B Getting Into Their Heads A report of the conceptions, misconceptions, and interests that male and female students brought to the study of technology in four middle schools. <i>Presenters: Kenneth Welty and Jeffrey Sullivan</i></p> | <p>3:00pm–3:50pm CCC, Room 212B NCETE: The First Five Years Five years of progress in research and capacity building by the National Center for Engineering and Technology Education (NCETE) will be described. <i>Presenters: Christine Hailey, Kurt Becker, Daniel Householder, DTE, and Chandra Austin</i></p> |
| <p>3:00pm–3:50pm CCC, Room 213A How Students Think and Learn With STEM Design Ever wonder what students are thinking and learning when doing STEM design? Verbal cognition and interview results from an open-ended STEM design challenge. <i>Presenters: Matthew Lammi, Nathan Mentzer, and Cameron Denson</i></p> | <p>3:00pm–3:50pm Hilton, Caldwell Room (3rd floor) Design for a Practical Green Energy Education This presentation shares foundations necessary and examples to learn green technology, including design for energy needs for now and the future. <i>Presenter: John Mativo</i></p> |
| <p>4:00pm–4:50pm CCC, Room 213A 3D Projectile STEM Design Challenge Students engage in a comprehensive STEM design challenge of an aeronautical 3D projectile including ideation, predictive analysis, modeling, test, evaluation, redesign, and retest. <i>Presenters: Matthew Lammi and Scott Greenhalgh</i></p> | <p>4:00pm–4:50pm CCC, Room 219B A Case Study: Teaching Engineering Concepts in Science A high school advanced competitive science program that was designed solely to reinforce math and science concepts by using engineering design curriculum. <i>Presenter: David Stricker</i></p> |
| <p>4:00pm–4:50pm Hilton Gwynn Room (4th floor) Impact of Technology on Learning: Gen Ed Course Learn more about a new course, first implemented in the Fall of 2009, that has been approved to meet general education requirements at UW-Stout. <i>Presenter: Brian McAlister</i></p> |   <p>NCETE is supported by the National Science Foundation Under Grant No. ESI-0426421.</p> |