

# **2016 Denver High Impact STEM Conference**

## *Detailed Schedule*

Thursday, June 9<sup>th</sup>

**12:30AM-1:30 PM | Registration and Lunch**

*Marcus Commons, Daniels College of Business*

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**12:30AM-1:30 PM | Welcome and Opening Session**

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**1:30 PM-2:00 PM | Introduction of the 4 Tracks**

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Track 1 - Undergraduate Research in the STEM Curriculum

Track 2 - Models for Community Engagement focused on STEM

Track 3 - Sustainability: Responsibility and Engagement across all disciplines

Track 4 - Strengthening the Liberal Arts: Humanities, Social Sciences and STEM in Partnership

**2:00 PM-3:45 PM | Track Session**

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### A NOTE ON THE TRACK BREAK OUT SESSIONS

This session gives you the opportunity to familiarize yourself with the 4 tracks offered and hear from all the track leaders.

On Friday, June 10<sup>th</sup>, there will be a morning and afternoon track break-out session. Each session is scheduled for three hours and contains two program options. We have tried to spread the sessions on common themes over the two break-out periods, so that you can pursue one theme in depth or cover a range. We've asked all track leaders to keep the sessions as interactive and lively as possible. We regard all of our participants as partners in learning and encourage you to contribute your expertise to all the sessions you attend.

There are many options to consider. Past experience has shown that teams that meet in advance to map out how they will take advantage of the range of opportunities within each session may get the most out of the conference.

**3:45 PM-5:00 PM | Poster Session and Reception**

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**Friday, June 10<sup>th</sup>**

**7:30 AM-8:00 AM | Breakfast**

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**8:15 AM-8:30 AM | Morning Welcome**

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**8:30 AM-11:30 AM | Track Break Outs (Track 1 & 4)**

***Margery Reed Hall***

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**Track 1 - Undergraduate Research in the STEM Curriculum**

Cynthia Maguire, [cmaguire@mail.twu.edu](mailto:cmaguire@mail.twu.edu)  
*Texas Woman's University*

Dick Sheardy, [rsheardy@mail.twu.edu](mailto:rsheardy@mail.twu.edu)  
*Texas Woman's University*

Steve Bachofer, [bachofer@stmarys-ca.edu](mailto:bachofer@stmarys-ca.edu)  
*St. Mary's College of California*

Track 1 will focus on SENCER ways of doing undergraduate research. Such courses develop students' higher order thinking skills while providing experiential learning opportunities and community service. Participants will see/hear applications of SENCER methods to a variety of undergraduate research topics and learn practical ways of assessing SENCER courses.

**Track 4 - Strengthening the Liberal Arts: Humanities, Social Sciences and STEM in Partnership**

Eliza Reilly, [elizareilly@gmail.com](mailto:elizareilly@gmail.com)  
*SENCER National Center*

Stephen Carroll, [scarroll@scu.edu](mailto:scarroll@scu.edu)  
*Santa Clara University*

Track 4 will offer an overview of the public conversation on STEM education and its relationship to humanities and social sciences disciplines in the undergraduate curriculum, and the advantages for both students and faculty of collaborating across divisional divides. The session will begin by putting in historical context some of the contemporary arguments for greater

integration of STEM and non-STEM disciplinary content in the college curriculum. It will then suggest that organizing curriculum around unsolved civic problems provides a framework for exploring both science, and its rich and complex human and social context without sacrificing disciplinary or intellectual rigor. Examples of courses and curricular programs, drawn both from the SENCER project and beyond, will be offered. The session will conclude with some ideas and organizing strategies faculty and administrators interested in advancing and supporting inter and trans-disciplinary curricular collaborations from general education through majors.

**11:45 AM-12:45 PM | Lunch and Team Meetings**

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**12:45-3:45 PM | Track Break Outs (Track 2 & 3)**

***Margery Reed Hall***

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**Track 2 - Models for Community Engagement focused on STEM**

Stephanie Schooley, [stephanie@ccmountainwest.org](mailto:stephanie@ccmountainwest.org)  
*Campus Compact of the Mountain West*

Robert Franco, [bfranco@hawaii.edu](mailto:bfranco@hawaii.edu)  
*Kapi'olani Community College, University of Hawai'i*

Ulla Hasager, [ulla@hawaii.edu](mailto:ulla@hawaii.edu)  
*University of Hawai'i Mānoa*

Track 2 will enable participants to briefly present what they consider "promising practices" in connecting STEM education to the real-world work of public schools, underserved communities, non-profit organizations, and industry. If possible, please come to this track with a 100 word summary of your promising practice. These practices include, but are not limited to, place-based learning, undergraduate research, service-learning, internships, and even collaborations with other colleges in their area. How are these practices deepening STEM learning for your students? How do you know? We will then seek to develop a collaborative educational research agenda that would document that these practices are having "high impact" at our campuses and in our communities.

**Track 3 - Sustainability: Responsibility and Engagement Across All Disciplines**

Amy Shachter, [ashachter@scu.edu](mailto:ashachter@scu.edu)  
*Santa Clara University*

Catherine Kleier, [ckleier@regis.edu](mailto:ckleier@regis.edu)  
*Regis University*

Sustainability is a buzz word across higher education. Because sustainability incorporates so many disciplines, this topic can inform and enhance courses across the curriculum. In this session, we aim to provide real world examples of how instructors can integrate sustainability in their courses to increase student engagement. In this track we invite faculty to design their own SENCER sustainability course and engage in a discussion of strategies for sustainability across the curriculum projects.

**3:45-4:00 PM | Closing Large Session / End**

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