

# Scholarship of Teaching and Learning

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# What is SOTL?

- Systematic inquiry of student learning to advance the practice of teaching

# Why is SOTL important?

- Improve teaching evaluations
- Share best practices
- Integrate research with education

# SOTL informs teaching-what are best practices?

## Active learning increases student performance in science, engineering, and mathematics

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# Campus Resources

- Teaching Partners Program
  - <http://cafe.mst.edu/teachingandstudentlearning/teachingpartners/>
- Instructional Services
  - <http://edtech.mst.edu/instructionalservices/>
- Educational Research Mini-Grant Program
  - <http://cafe.mst.edu/fundingprograms/educationalresearchmini-grant/>

## S&T is a supportive environment for SOTL

- > CERTI and CAFE
- > Education research grants
- > EdTech
- > E fellows grants
- > Annual TLC conference
- > CASB travel awards

# Places to Publish

- Conferences
  - ASEE – abstracts due Nov. 15<sup>th</sup>
    - <https://www.asee.org/conferences-and-events/conferences/annual-conference/2019/paper-management/call-for-papers>
- Journals
  - Discipline based

## Many SOTL Journals, both general and discipline specific

- > Journal of College Science Teaching
- > Research in Higher Education
- > Many discipline specific journals
  - Check with your professional organization

<http://www.fctl.ucf.edu/ResearchAndScholarship/SoTL/journals/>



# Professional Networks

- ASEE
- Discipline specific programs

## How can I do SOTL research?

- > SOTL research different from PhD research
- > Limitations-no control group or selection of participants
- > Increasing use of statistics
- > Training may be available
  - BioScholars and HHMI Summer Institutes
- > Attend DEBR conferences to see what current research in field looks like
- > Review articles for SOTL journals
- > Need IRB approval to publish data from SOTL

[https://www.jstor.org/stable/10.2979/teachlearningqu.3.1.3?seq=1#metadata\\_info\\_tab\\_c](https://www.jstor.org/stable/10.2979/teachlearningqu.3.1.3?seq=1#metadata_info_tab_c)

Discussion

Questions?