Scholarship of Teaching and Learning

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October 3, 2018
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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Edited* by Bruce Alberts, University of California, San Francisco, CA, and approved April 15, 2014 (received for review October 8, 2013)
Campus Resources

- Teaching Partners Program
  - [http://cafe.mst.edu/teachingandstudentlearning/teachingpartners/](http://cafe.mst.edu/teachingandstudentlearning/teachingpartners/)

- Instructional Services
  - [http://edtech.mst.edu/instructionalservices/](http://edtech.mst.edu/instructionalservices/)

- Educational Research Mini-Grant Program
  - [http://cafe.mst.edu/fundingprograms/educationalresearchmini-grant/](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. 15th

• 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/teachlearninqu.3.1.3?seq=1#metadata_info_tab_contents
Discussion

Questions?