

WELCOME!



Transform







Two Minute Paper

On a notecard:

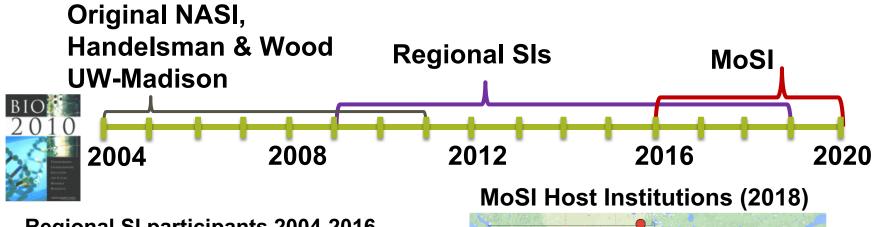
- -pick a 3-digit number that you'll remember on Thursday. Write it on the card
- -on front, answer:

"What does student success mean to you?"

-on back, answer:

"What is your role in student success?"

Origins and Evolution of the SIs









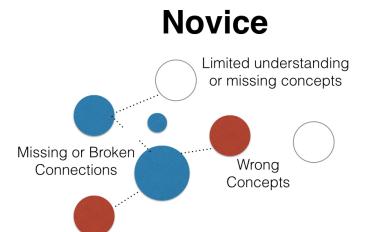


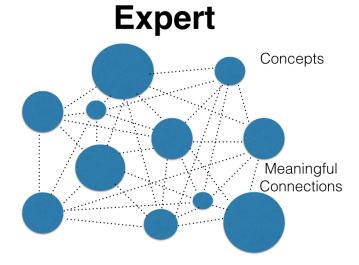
What students aren't getting in traditional classrooms.



If the camera crew from "A Private Universe" were to question <u>your students</u> at the end of your course or graduation, what would you be most embarrassed to find out that they didn't know?

What influences the transition from novice to expert?



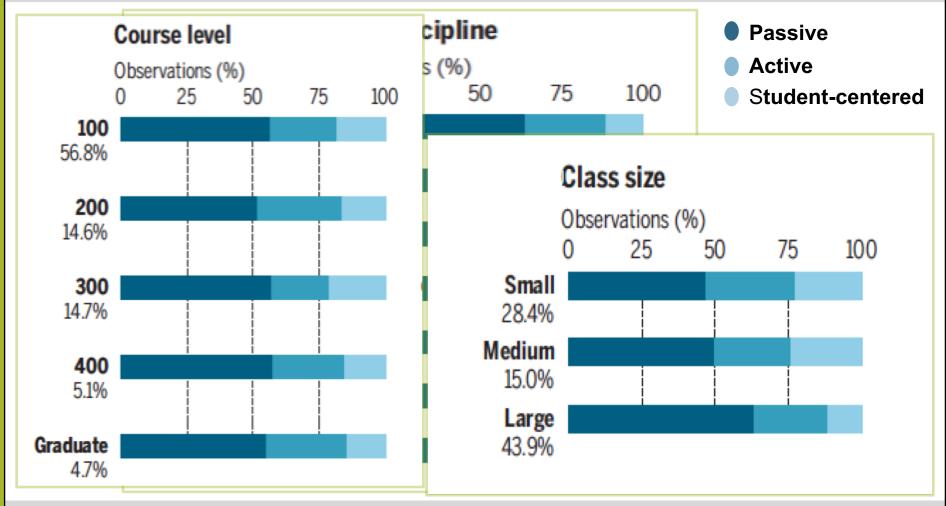


In active learning classes, students fail less & perform better



Freeman, et al., (2014). Active learning increases student performance in science, engineering, and mathematics. *PNAS*, 111(23), 8410-8415.

A work in progress: we're part of a national reform effort



Stains, et al., (2018). Anatomy of STEM teaching in North American universities. Science, 359(6383), 1468-1470.

Getting to know you...

City of origin

Teaching or research specialty area

First Name

Pronoun

What you wanted to be as a kid

Something unique about you

Your challenges and supports

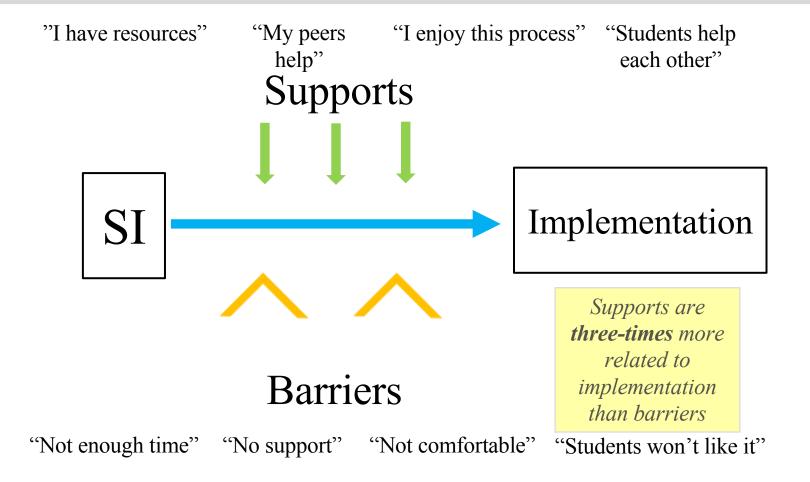


What are your biggest teaching challenges (barriers)?

What do you hope to achieve through engaging in the MoSI workshop this week (goals)?



Supports have more impact on implementation than barriers



Organizing Principle - Scientific Teaching

Active Learning & Assessment

Backward Design

Student-Centered Learning

Inclusive Teaching

Condensation of best, evidence-based teaching practices

Backward Design

What should students know, understand and be able to do by the end of the class?



What evidence will convince you that they got there?



How will you help them get there?

A four-pronged approach to change

Individual

Environmental

Streamlined SI

New elements
Scholarly teaching
Peer Eval/Mentoring

Administrator Meeting

Facilitated Strategic Planning

. Henderson, C., Finkelstein, N. & Beach A. (2010). Beyond dissemination in college science teaching: An introduction to four core change strategies. *Journal of College Science Teaching*, 39: 18-25

Format for the week

| Time | Monday (6/10) | Tuesday (6/11) | Wednesday (6/12) | Thursday (6/13) | Friday (6/14) |
|--|-------------------------------|--|--|---|---|
| 8:30-9:00 9:00-9:30 | Facilitator Training | Backward Design in Action I (goals & outcomes) | Peer Mentoring and Evaluation Training | Presentations Prep (Final Group Work) | |
| 9:30-10:00 | | | | Group Presentations | Strategic Planning II - Backward Design (Continued) |
| 10:30-11:00 11:00-11:30 11:30-12:00 | | Backward Design in Action II | Scholarly Teaching | | Mock Group- Report Presentations |
| 12:00-12:30 | | Lunch (provided) | Lunch (provided) | Lunch (provided) | A -liitt |
| 12:30-1:00 | Intro and Welcome | | | Review and Reflection | Administrator Lunch |
| 1:30-2:00 2:00-2:30 2:30-3:00 3:00-3:30 | Inclusivity | Group Work I | Group Work II | Strategic Planning I - Visioning, Goal-setting, and Consensus Forming | |
| 3:30-4:00 4:00-4:30 | Scientific Teaching in Action | | Group Share | Strategic Planning II - Backwards Design | |
| 4:30-5:00 5:00-5:30 | | | | Reception with Provost & former MOSI fellows (ED241) | |

Legend

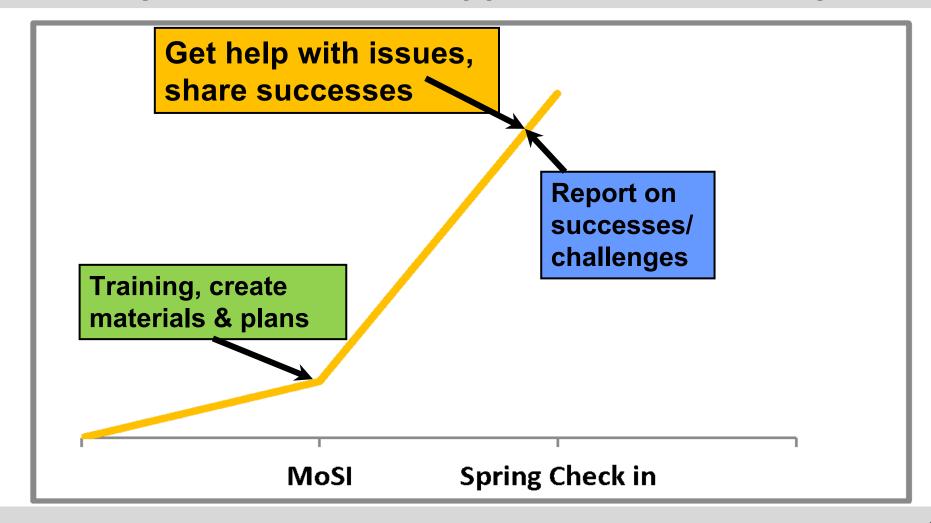
Interactive workshops

Group Work

Presentations

Institutional elements

Beyond the MoSI: Supports & Community



Let's get started

Active Learning & Assessment

Backward Design

Student-Centered Learning

Inclusive Teaching