

Using Teaching Development Groups to Support Innovative Teaching and Pedagogical Research

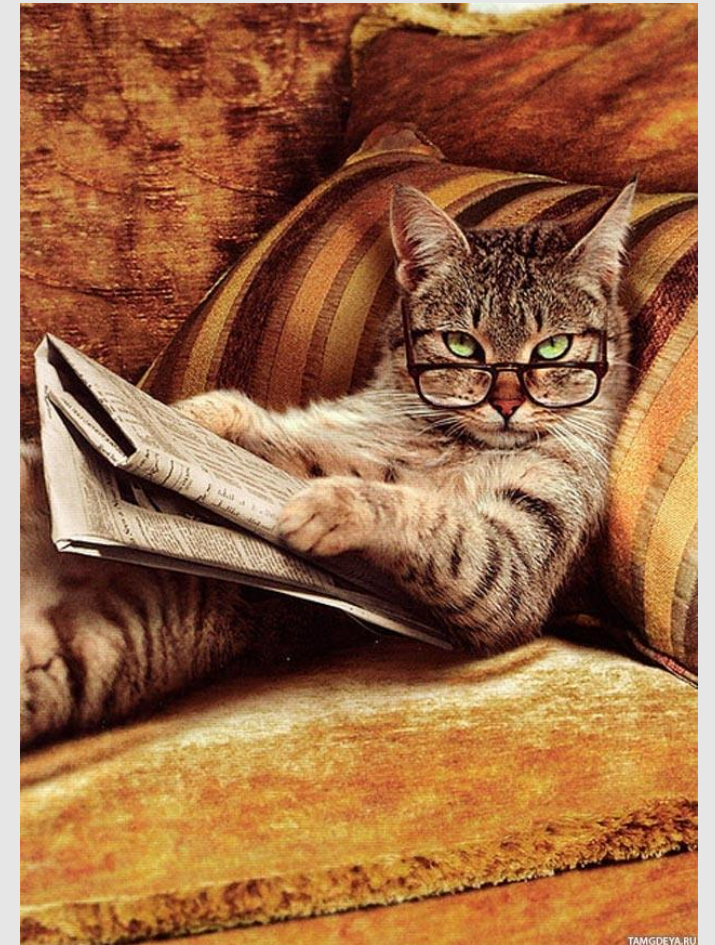
Innovations in Teaching and Learning Conference
George Mason University

September 18, 2015

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Session Agenda

- Introduction of the project
 - Teaching Development (TD) groups
 - SIMPLE framework for faculty development
- Table discussions facilitated by experienced TD group leaders
- Overview of Teaching Inquiry Group (TIG)
- Information about joining the project



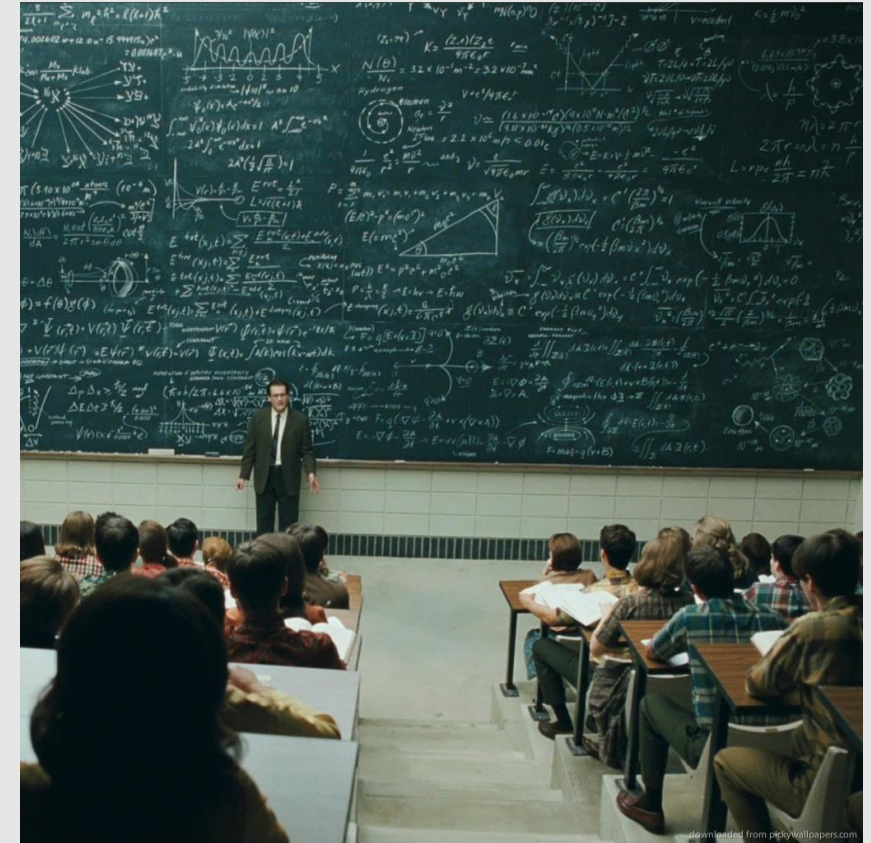
Who are we?

- Jill Nelson – Electrical and Computer Engineering
- Anastasia Samaras – Graduate School of Education
- Cody Edwards – Office of the Provost / Biology
- Reid Schwebach – STEM Accelerator / Biology
- Craig Lorie – Electrical and Computer Engineering
- Katherine Pettigrew – Forensic Science
- Lori Bland – Graduate School of Education
- Margret Hjalmarson – Graduate School of Education
- Dasha Gerasimova – Graduate Research Assistant

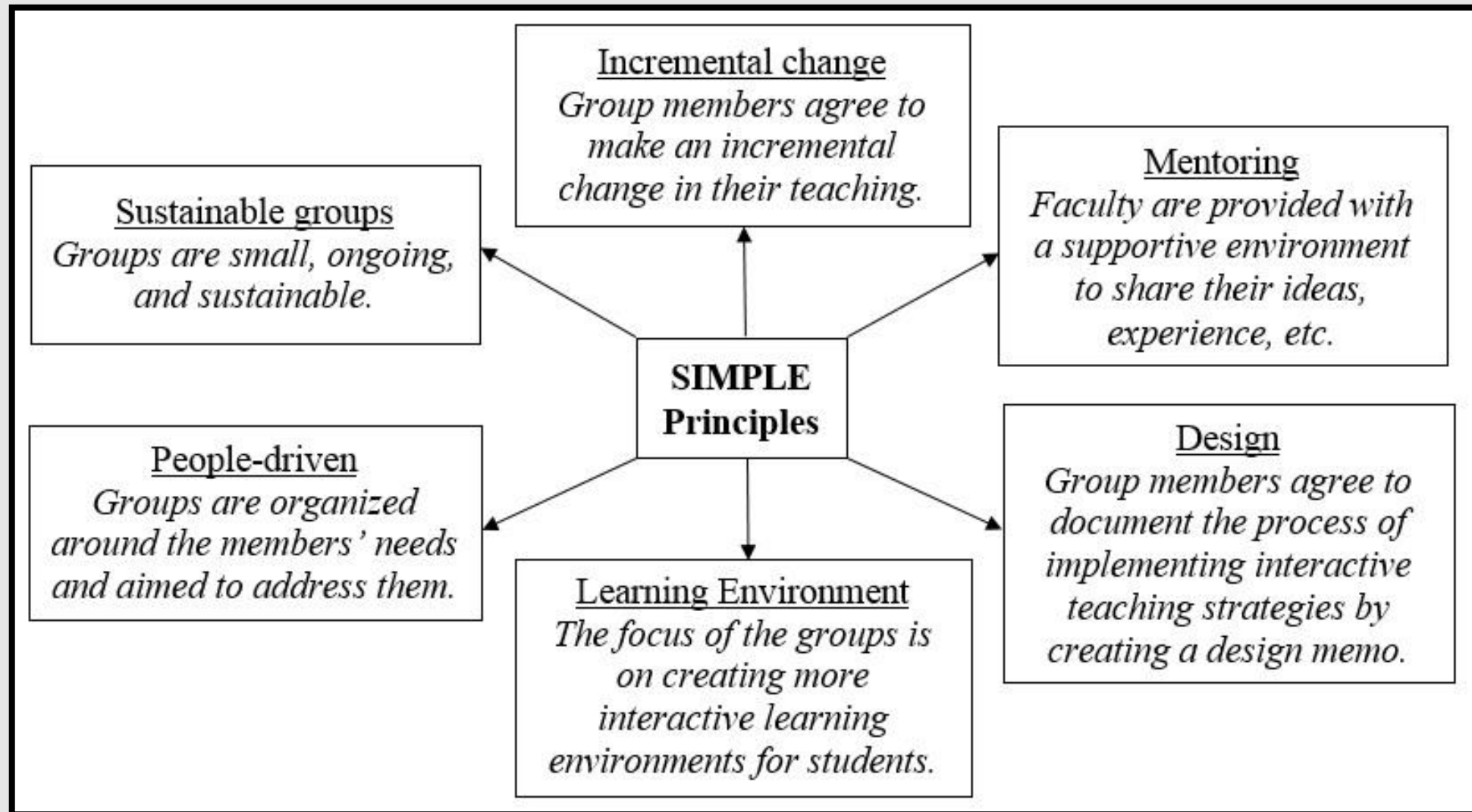


Teaching Development Groups

- Designed for the faculty interested in
 - Learning more about interactive teaching
 - Discussing teaching strategies with each other
 - Being supported in their teaching innovations
- How it works
 - Regular (monthly) meetings within the department
 - Implementing new teaching strategies or improving old ones
 - Documenting the experience by creating a design memo



The SIMPLE Design Framework for Faculty Development



What's Next?

Modeling a Teaching Development Group Meeting

Facilitators will introduce an interactive teaching strategy they use in their classrooms.

We will then ask you to move to the table with the facilitator whose strategy is of interest to you.

And then ... participate in the discussion!



Table #1: Notecards

Reid Schwebach and Cody Edwards

What and why?

- Student engagement in large lecture classes

How?

- Individual cards created by students
- Cold-calling
- Predetermined questions
- To ask or to be asked
- Peer discussion sharing
- Note on the card whether student gave correct answer

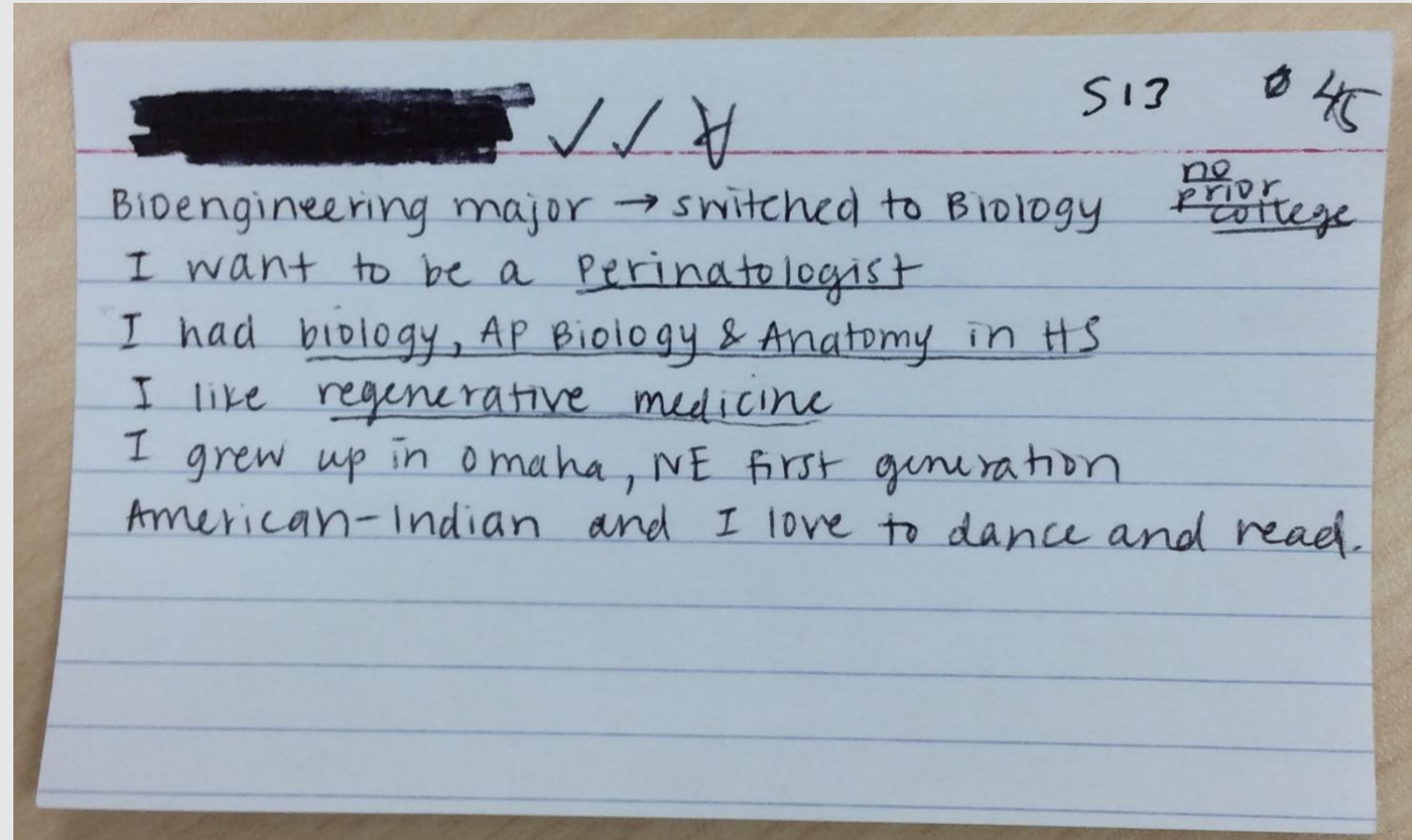


Table #2: Flipped (or nearly flipped) Classrooms

Craig Lorie and Kathy Pettigrew

- Active learning using I-clickers
 - Craig Lorie
- Non-traditional lectures in the ALT Room
 - Kathy Pettigrew



Active Learning using I-clickers

Craig Lorie

What and why?

- Improving student engagement and retention through active learning

How?

- From lecture-focused to exercise focused
- Greater expectations of the students
- In-class exercises using I-clickers
- From fixed-time to self-paced exercises
- Team learning



Non-Traditional Lectures

Kathy Pettigrew

What and Why?

- Communication
- Collaboration
- Critical Thinking
- Creativity
- Argumentation

How?

- Innovating education by moving from a traditional lecture room to the Active Learning with Technology classroom



Join a Table!



Which departments have TD groups?

- Biology and Environmental Science
- Computer Science
- Civil, Environmental & Infrastructure Engineering
- Physics and Astronomy
- Mathematical Sciences
- Atmospheric, Oceanic, and Earth Sciences



Don't see your department? Create a group yourself!

The Teaching Inquiry Group (TIG)

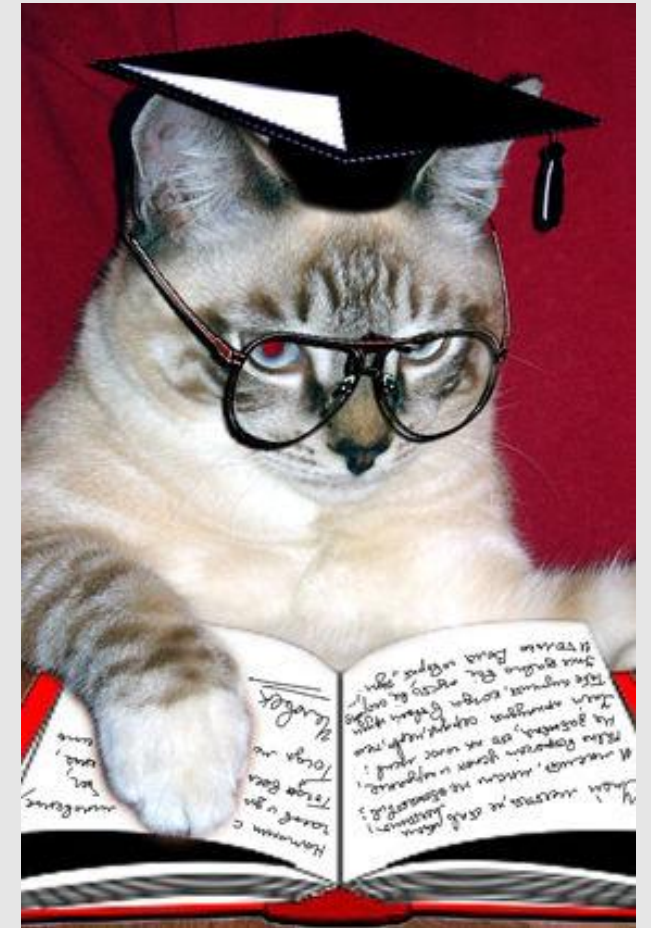
Designed for faculty interested in

- Scholarship of teaching
- Self-study of teaching practice
- Publishing in educational journals

Leader: Dr. Anastasia Samaras, an experienced facilitator of the self-study groups at Mason

How it works

- Each member pursues a research project on the aspect of their teaching that they are interested in investigating
- Monthly meetings to provide faculty with guidance and peer support
- Individual need-based consulting



Interested in joining the project?

Please contact us at dgerasim@gmu.edu

OR

Visit us at <http://simple.onmason.com/> for

- More information about the project
- Teaching resources (articles, videos, books, other web resources)
- Design memos



Questions?

- Now: Ask away!
- Later:
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