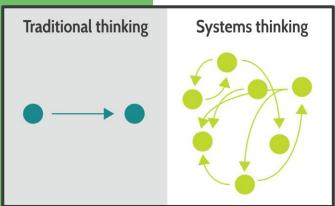


TEACHING SYSTEMS THINKING SKILLS

Tools and Techniques







Meadows, D. H. (2009). *Thinking in systems: A primer* (D. Wright, Ed.). London, UK: Earthscan

Welcome & Introduction

MODERATOR: Meaghan Caruso,

Veraguate Student - Environmental Science and Policy

PANELIST: Moe Ahmed

Center for Climate Change Communication (4C)

PANELIST: Dr. Jeremy Campbell

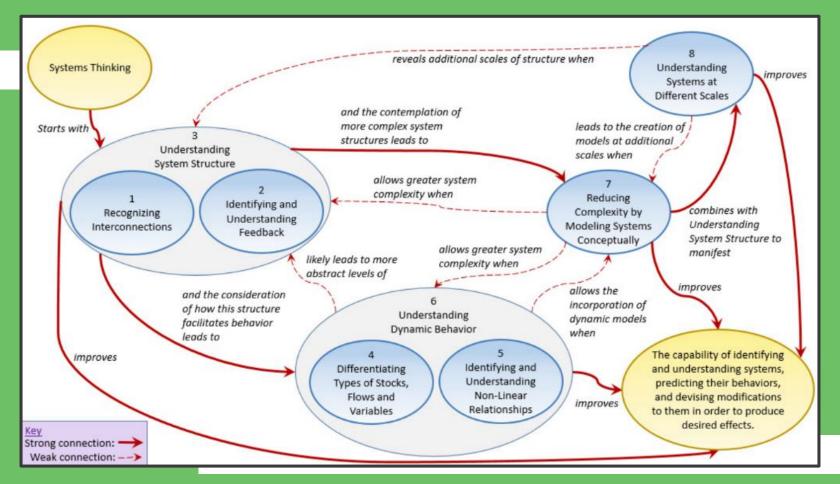
Institute for a Sustainable Earth (ISE)

PANELIST: Dr. Ben Manski

Next System Studies

Today's Agenda

- 1. Introduction and Goals of Webinar
 - a. Brief interactive activity
 - b. Three demographic poll questions
- 2. Three 10-15 minute panelist presentations
- 3. Audience responses, panelist Q&A



Arnold, R. D., & Wade, J. P. (2015). A definition of systems thinking: A systems approach. *Procedia Computer Science*, *44*, 669-678.

Webinar Goals

Teaching Resources for Systems Thinking

01

02

Pedagogical Tools

Our panelists will offer practical ways to incorporate systems thinking into curricula.

Resource Collection and Distribution

We will be sharing resources collected through a workshop on systems thinking held this fall. Please consider adding to our collection.



Edited Book Proposal: Teaching Systems Thinking

Illustrates the creative ways that university instructors have tackled teaching about systems and systems thinking from multiple disciplines.

- Learning outcomes and how they have changed
- Specific class activities with student experiences
- Different approaches to teach concepts like feedback loops, systems mapping, reducing complexity, etc.

Panelist Presentations



MOE AHMED

Growing Systems
Thinkers: Enhancing
Environmental
Education with
NetLogo Modeling



DR. JEREMY CAMPBELL

Community
Engagement for
Teaching SocioEnvironmental
Systems Thinking
Skills



DR. BEN MANSKI

What Systemic
Movements Can
Teach: A Praxiological
Approach to Next
System Studies

Have resources to share?

Contribute to the collection of teaching resources at: https://ise.gmu.edu/teaching-resources-for-systems-thinking-a-crucial-21st-century-skill/

Contact: Jeremy Campbell at jcampb30@gmu.edu



Contribute to an edited volume of teaching resources

Contact: Kerri Lacharite at klachari@gmu.edu

Thank you!

This webinar was made possible by a Curriculum Impact Grant awarded through George Mason University.

Thank you to our panelists and attendees. We hope you will consider adding your expertise to our growing collection of resources.