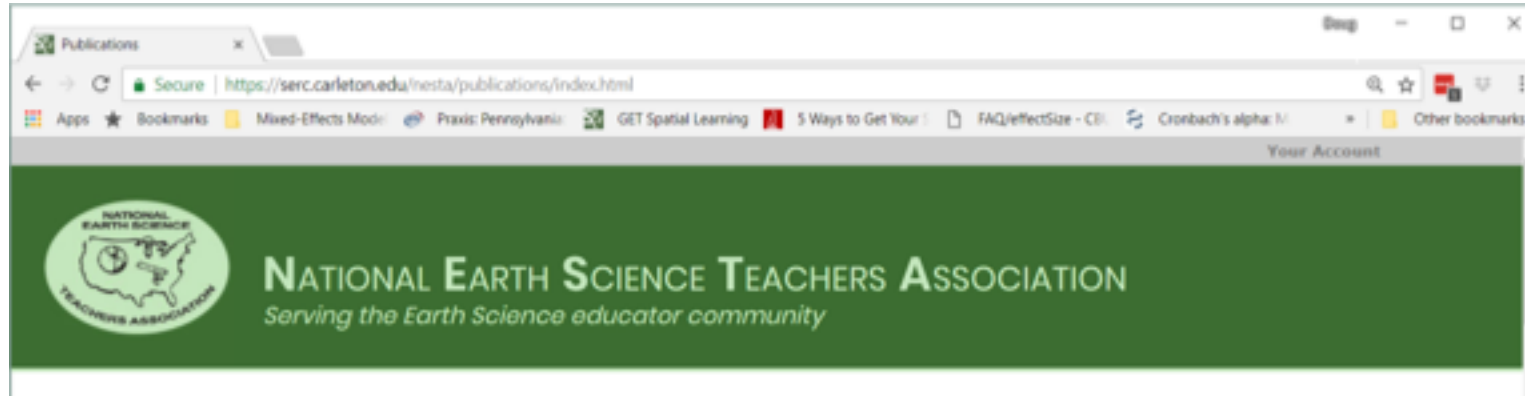


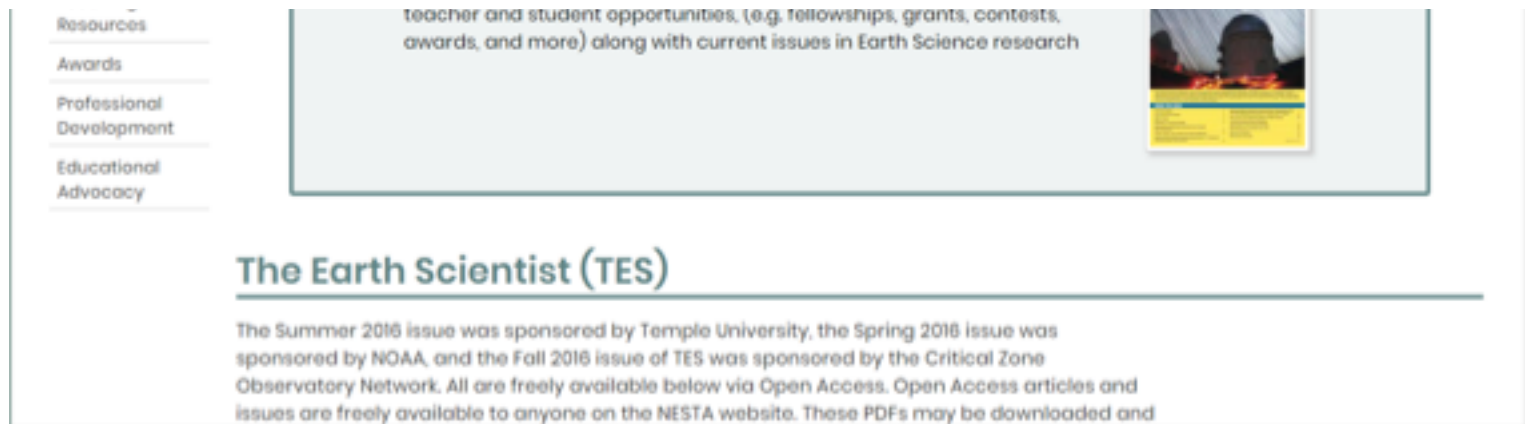


Reviewing the Pre-Constructed MELs
The Earth Scientist, Special Issue

The Earth Scientist is a peer-reviewed, quarterly journal for classroom teachers published by NESTA

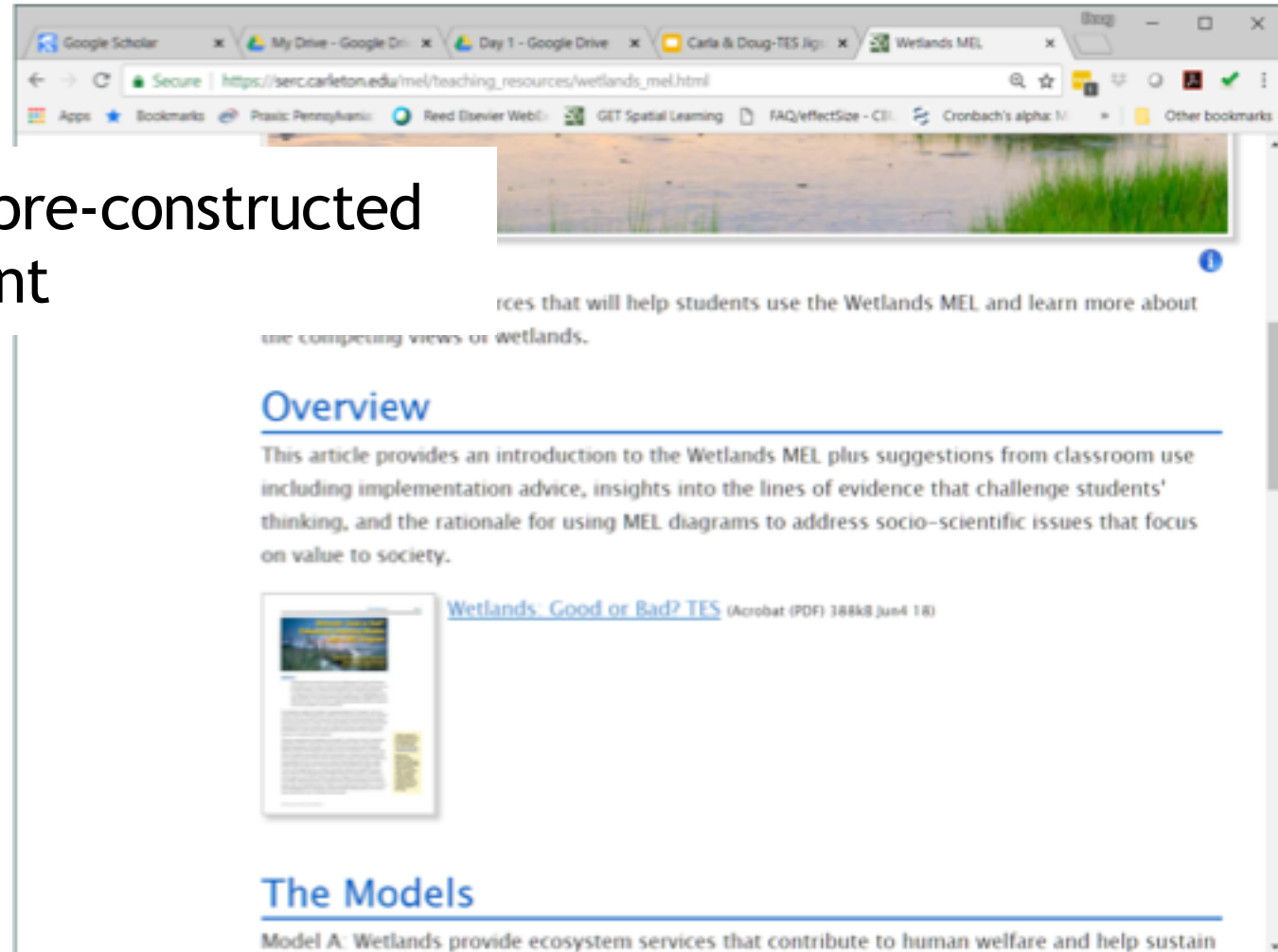


The Summer 2016 TES issue was sponsored by SLRG at Temple University and is freely available for download at the MEL site, and also from NESTA



This special “MEL” issue features 5 articles written by master teachers & the research team

The articles cover the 4 pre-constructed MELs & tips for assessment



Let's evaluate the articles using a jigsaw activity

Step 1: We will divide into 4
MEL “expert” groups

Group A = Climate Change

Group B = Moon

Group C = Wetlands

Group D = Fracking

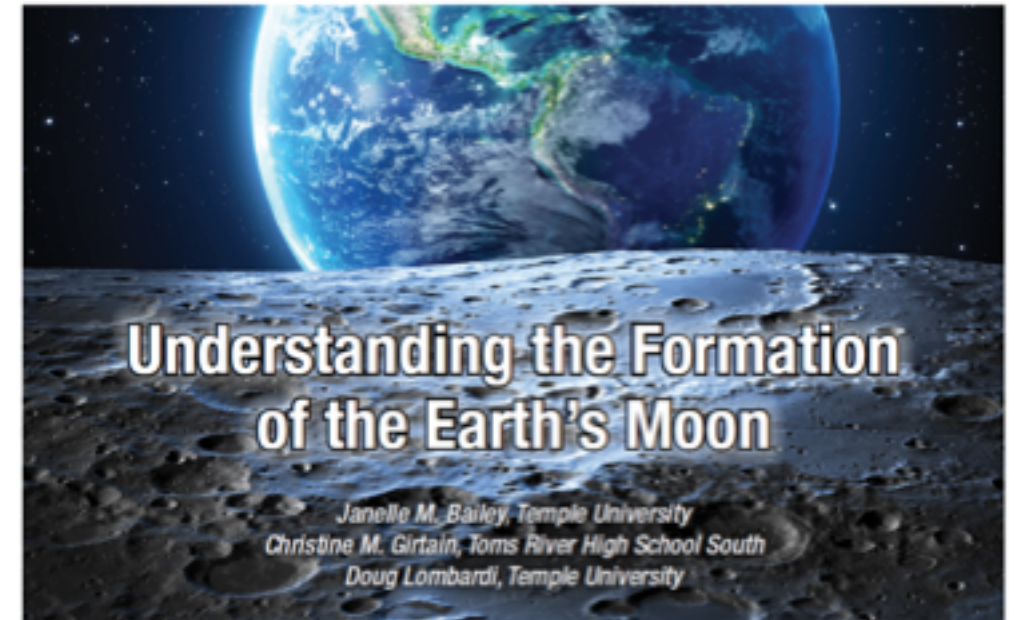
Step 2: We will then convene
in interdisciplinary groups
(stay tuned!)



Step 1A: Reading & analyzing your group's assigned article

Individually, please read your article carefully (take ~10 minutes to silently read the article) and write/respond to the following questions:

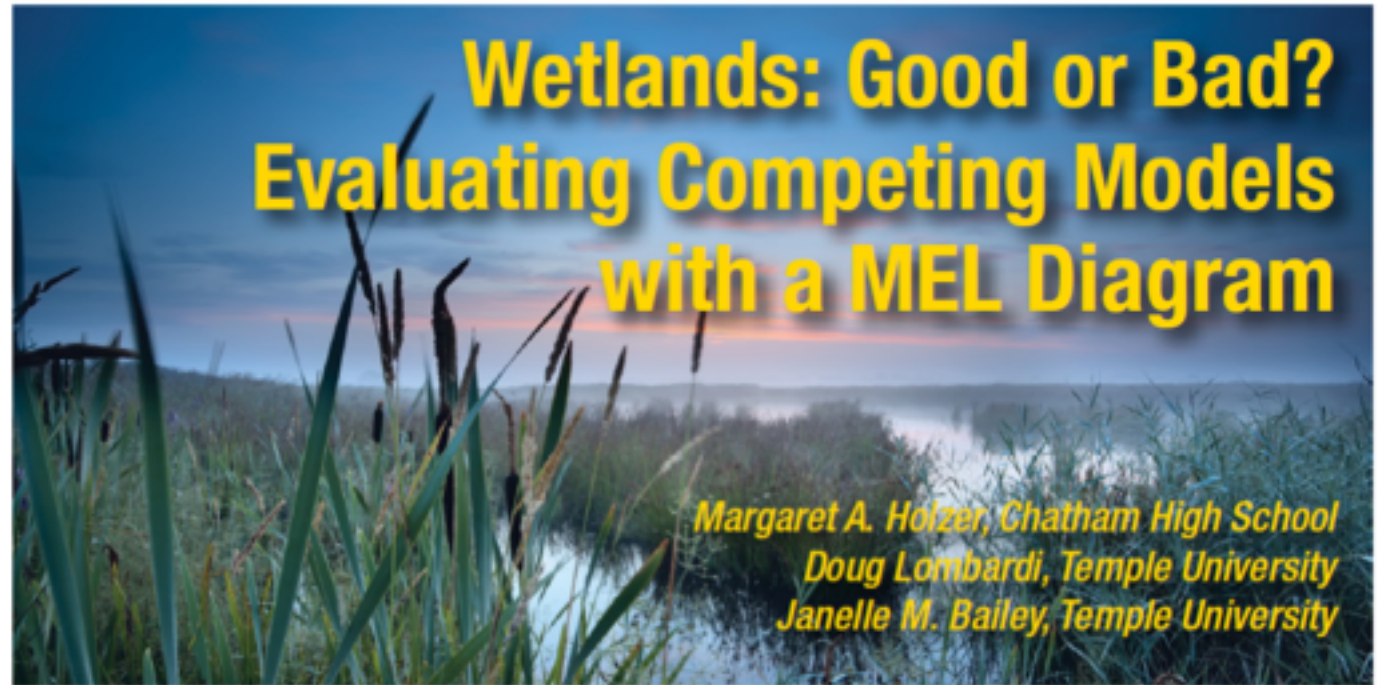
1. **Analyze the models that are at the center of your MEL: What type of issue underlies the models in your MEL?**
 - a. socio-scientific
 - b. controversial/scientific
 - c. abstract/scientific
2. **What type of explanation underlies the models in your MEL?**
 - a. scientific with consensus
 - b. scientific, but still being investigated
 - c. value-based



Step 1B: Looking for teaching tips

As a MEL expert group, respond to and write down the following question:

What tips, pedagogical strategies, & potential problems are given for implementing the MEL you read about in your article?



Let's move onto the next step...

Step 1: You just divided into 4
MEL “expert” groups

Group A = Climate Change

Group B = Moon

Group C = Wetlands

Group D = Fracking

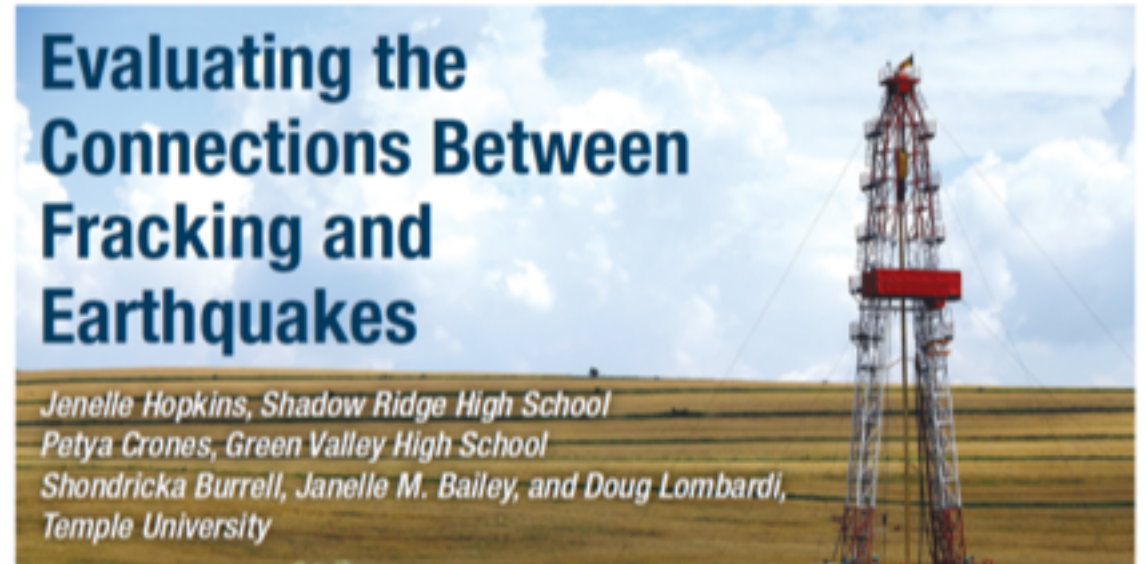
Step 2: We will now convene
in interdisciplinary groups



Step 2A: Comparing & contrasting models

Analyze the models in each of the 4 MELs...compare & contrast the type of issues & explanations across the MEL models

Please show your analysis on big paper to share with the whole group



Step 2B: Compiling a tips list

Review the tips, pedagogical strategies, & potential problems given for implementing each of the four MELs described in the articles

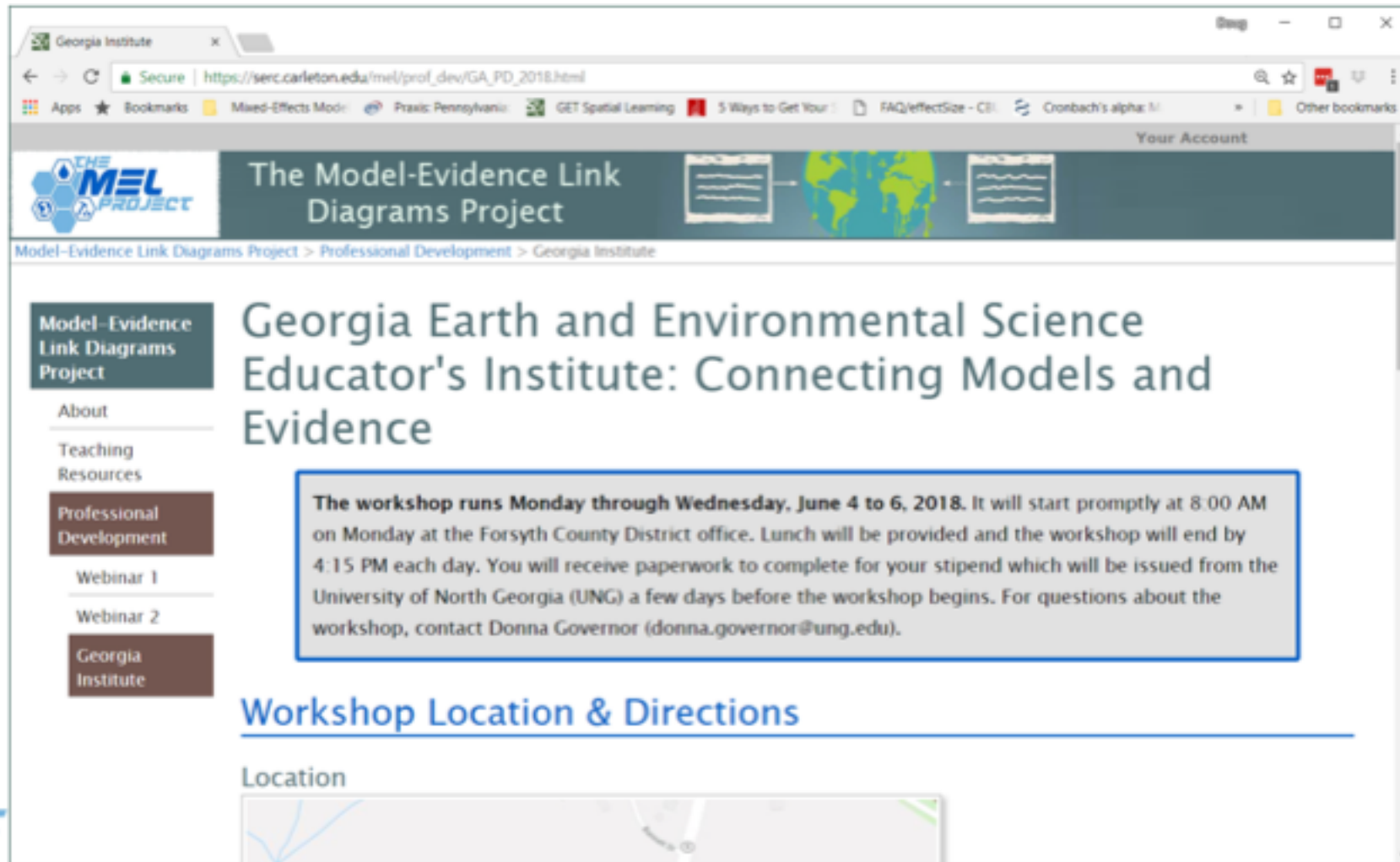
Please compile a list on big paper to share with the whole group

**Beyond the Controversy:
Instructional Scaffolds to Promote
Critical Evaluation
and Understanding
of Earth Science**

*Doug Lombardi,
Temple University*



Don't forget to visit the MEL Project website (early and often) to download the latest materials & resources



The screenshot shows a web browser window with the URL https://serc.carleton.edu/mel/prof_dev/GA_PD_2018.html. The page header features the MEL Project logo and the title "The Model-Evidence Link Diagrams Project". The main content area is titled "Georgia Earth and Environmental Science Educator's Institute: Connecting Models and Evidence". A sidebar on the left lists navigation options: "Model-Evidence Link Diagrams Project", "About", "Teaching Resources", "Professional Development", "Webinar 1", "Webinar 2", and "Georgia Institute". A highlighted box contains the following text: "The workshop runs Monday through Wednesday, June 4 to 6, 2018. It will start promptly at 8:00 AM on Monday at the Forsyth County District office. Lunch will be provided and the workshop will end by 4:15 PM each day. You will receive paperwork to complete for your stipend which will be issued from the University of North Georgia (UNG) a few days before the workshop begins. For questions about the workshop, contact Donna Governor (donna.governor@ung.edu)." Below this, the section "Workshop Location & Directions" is partially visible, showing a "Location" heading and a map.

Georgia Institute

Secure | https://serc.carleton.edu/mel/prof_dev/GA_PD_2018.html

Apps Bookmarks Mixed-Effects Model Praxis Pennsylvania GET Spatial Learning 5 Ways to Get Your FAQ/effectSize - CE Cronbach's alpha: M Other bookmarks

Your Account

THE MEL PROJECT

The Model-Evidence Link Diagrams Project

Model-Evidence Link Diagrams Project > Professional Development > Georgia Institute

Model-Evidence Link Diagrams Project

About

Teaching Resources

Professional Development

Webinar 1

Webinar 2

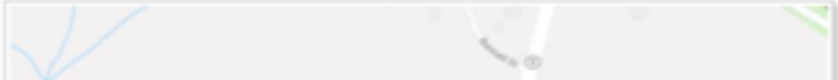
Georgia Institute

Georgia Earth and Environmental Science Educator's Institute: Connecting Models and Evidence

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Workshop Location & Directions

Location



ACKNOWLEDGEMENTS



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