



STEM Education, Learning Disabilities, and the Science of Dyslexia

CONFERENCE CHAIRS:

Russell Gersten & Madhavi Jayanthi

CONFERENCE ADMINISTRATOR:

Christopher Tran

Instructional Research Group



Goals

1. Create new, *better informed*, collaborations between researchers from diverse fields (e.g., neuropsychology, special education, mathematics education, cognitive psychology).
2. Sharing of ideas and unresolved issues between those groups.
 - *Formal dialogue (Q&A during Panel and Plenary sessions)*
 - *Informal dialogue (around Interactive Poster Sessions, social hour, etc.)*



Formats

1. Keynotes and Plenary sessions:

- *Big picture views of lines of research and what they mean for STEM instruction*
- *Emerging trends and themes (e.g., professional development, comorbidity, nature of special education mathematics instruction)*

2. Breakout panels – Examination of an issue or topic (implementation of interventions in mathematics, executive function) from multiple lenses...focuses on highlights of research

- *Allow ample time for discussion*

3. Premier Interactive Poster sessions.

- *Allow discussion of nitty gritty of research*



A Few Conference Themes

1. Deeper understanding of nature of dyslexia and learning disabilities.
2. Transcending defining learning disabilities by discipline (reading, mathematics).
3. Evidence on comorbidity from both psychological and intervention research.
4. Neuro science findings on specific deficits.
5. Broader and deeper knowledge of executive functions.
6. Advances in intervention research.



Emerging Theme

How can the scientific and theoretical advances inform instruction?