



## Transformative Research in Geography Education

**A Special Track for the  
2018 AAG Annual Meeting  
New Orleans, Louisiana  
April 10-14, 2018**

*Sponsored by the  
National Center for Research in Geography Education*

Each year for the AAG Annual Meeting, NCRGE organizes and compiles a track of papers, posters, and panels focusing on geography education research. NCRGE is sponsoring this track to raise the visibility of research in geography education, grow the NCRGE research coordination network, and provide productive spaces for discussion about geography education research and what makes research in the field potentially transformative. Full abstracts and session descriptions are available in the online [AAG Annual Meeting Program](#).

### **Tuesday, April 10**

Paper: High School Geography Curriculum Reform in China  
9:00 AM - 9:20 AM in Studio 4, Marriott, 2nd Floor

Paper: Education for Sustainable Development and Subject-Specific Education  
10:10 AM – 10:30 AM in Napoleon A1, Sheraton, 3rd Floor

Paper: The Value of Project-Based Research: Examples from Undergraduate Urban Geography Courses  
10:20 AM – 10:40 AM in Studio 4, Marriott, 2nd Floor

Paper: Threshold Concepts in Geography: Self-Efficacy in Liminal Space  
10:40 AM – 11:00 AM in Studio 4, Marriott, 2nd Floor

Paper: Evaluation of K-12 Activity Modeling Erosional Processes  
11:20 AM – 11:40 AM in Studio 4, Marriott, 2nd Floor

Paper: Doing Geography: Expanding Students' Spatial Narratives through Inquiry and Citizen Mapping  
12:40 – 1:00 PM, Napoleon A1, Sheraton

Paper: A Foundation for Spatial Thinking: Towards a Threshold Concept Framework in GIScience and its Implications for STEM Education  
12:40 PM – 1:00 PM in Studio 4, Marriott, 2nd Floor

Paper: Geography teacher students' discussions when playing a spatial planning game with focus on sustainable urban planning  
1:00 PM – 1:20 PM in Astor Ballroom II, Astor, 2nd Floor

Paper: Using GeoInquiries to Integrate GIS as Instructional Technology in Elementary Social Studies  
1:20 PM – 1:40 PM in Studio 4, Marriott, 2nd Floor

Paper: Towards an Assessment Model of Critical Thinking in Human Geography  
5:00 PM – 5:20 PM in Astor Ballroom II, Astor, 2nd Floor

Paper: Challenges in Teaching the AP Human Geography Course to 9th Graders  
5:20 PM – 5:40 PM in Astor Ballroom II, Astor, 2nd Floor

**Wednesday, April 11**

Paper: Transforming Personal Sense of Place Using Contemplative Pedagogy and Photography in Field Schools

9:20 AM – 9:40 AM in Endymion Room, Sheraton, 8th Floor

Panel: Broadening the Impacts of Transformative Research in Geography

10:00 AM – 11:40 AM in Studio 4, Marriott, 2<sup>nd</sup> Floor

Paper: The adoption of user-generated content in spatial understanding and geography learning

10:20 AM – 10:40 AM in Endymion Room, Sheraton, 8th Floor

Poster Session: A GeoCapabilities Approach in Japan: International Collaborative Research for Pre/In-service Teacher Training Program and Expanding the Research

1:20 PM – 3:20 PM, Napoleon Foyer/Common St. Corridor, Sheraton, 3rd Floor

Paper: How spatial abilities influence self-pacing of GIS instruction in video format

2:40 PM – 3:00 PM in Southdown Room, Sheraton, 4th Floor

Paper: Climate Confusion in the Classroom: Perceptions, Methods, and Background of Utah Secondary Education Science Teachers

3:40 PM – 4:00 PM in Iris Room, Sheraton, 8th Floor

Paper: Comparative Study of Environmental Education between New South Wales, Australia and Shanghai, China

4:00 PM – 4:20 PM in Iris Room, Sheraton, 8th Floor

**Thursday, April 12**

**SYMPOSIUM ON TRANSFORMATIVE RESEARCH IN GEOGRAPHY EDUCATION**

*This symposium focuses on the work of NCRGE research coordination network members who received 2017 Transformative Research grants from NCRGE. Information about 2018 research funding opportunities will also be shared. The symposium is open to all AAG Annual Meeting participants.*

Panel: Transformative Research in Geography Education

10:00 AM – 11:40 AM in Studio 4, Marriott, 2nd Floor

NCRGE Keynote by Nora Newcombe: GPS in Our Heads: What Do Behavioral and Neural Data on Navigation Offer to Geography Educators?

1:20 PM – 3:00 PM in Galerie 2, Marriott, 2nd Floor

NCRGE Keynote by David Lambert: Nurturing the "garden of peace": Powerful geographical knowledge and the pursuit of real education

3:20 PM – 5:00 PM in Galerie 2, Marriott, 2nd Floor

### **Friday, April 13**

Panel: Powerful Geography

10:00 AM – 11:40 AM in Studio 1, Marriott, 2<sup>nd</sup> Floor

Paper: Promoting Geo-Capabilities Through Scenario Based Learning

10:39 AM - 10:44 AM in Iris Room, Sheraton, 8th Floor

Paper: The Power of Place: Fostering Community of Learners & Revitalizing Indigenous Knowledge in STEM education

11:20 AM – 11:40 AM in Astor Ballroom II, Astor, 2nd Floor

Panel: Trends in International Geography Assessment Study

1:20 PM – 3:00 PM in Studio 4, Marriott, 2<sup>nd</sup> Floor

Paper: Analysis of TPACK: Implications for Designing Effective In-Service Professional Development

5:20 PM - 5:40 PM in Studio 2, Marriott, 2nd Floor

### **Saturday, April 14**

Paper: Children's Perceptions of Nature and Maps

10:20 AM - 10:40 AM in Balcony M, Marriott, 4th Floor

Paper: Glocal classroom - teaching how to engage on policy issues across space-time and cultural difference

10:20 AM - 10:40 AM in Napoleon A1, Sheraton, 3rd Floor

Paper: Building Geo-Inquiry to Create Student Explorers

10:40 AM – 11:00 AM in Balcony M, Marriott, 4th Floor

