



Brain, Neurosciences, & Education SIG Newsletter

American Educational Research Association

Spring 2007

Sessions

Monday, April 9th

Roundtables: *Educational Neuroscience: Research Studies I*

12:00pm - 12:40pm

Hyatt Regency Chicago, Grand Ballroom, Sections C-D South, East Tower - Gold Level

Integrating Psychometrics and Psychophysiology in the Study of Teachers' Anxieties toward Teaching and Learning Mathematics

Stephen R. Campbell, Simon Fraser University

Radcliffe A. Siddo, Simon Fraser University

Shoaleh Bigdeli, Simon Fraser University

Neural Substrates of Gf Abilities that Support Human Learning: An fMRI Study

Hiromi Masunaga, California State University - Long Beach

Ryuta Kawashima, Tohoku University

John L. Horn, University of Southern California

Yuko Sassa, Tohoku University

Atsushi Sekiguchi, Tohoku University

Submitted Papers: *Educational Neuroscience: Philosophy and Theory*

2:15pm - 3:45pm

Sheraton Chicago Hotel & Towers, Michigan, Level 2

Chair: Read Diket, William Carey University

A Proposed Theory of the Neurological Limitations of Cognitive Transfer

Michael Atherton, University of Minnesota

An Embodied View of Mind-Body Correlates

Stephen R. Campbell, Simon Fraser University

Kerry Handscomb, Simon Fraser University

The Somatic Appraisal Model of Affect: A Framework for Neuropedagogy

Kathryn Elizabeth Patten, Simon Fraser University

Open Business Meeting: *Brain, Neurosciences, and Education SIG Business Meeting*

Mon, Apr 9 - 6:15pm - 7:45pm

Marriott Chicago Downtown, Great America, Sixth Floor

Tuesday, April 10th

Submitted Papers: *Educational Neuroscience: Research and Reviews*

2:15pm - 3:45pm

Sheraton Chicago Hotel & Towers, Michigan, Level 2

Chair: Carol Fry Bohlin, California State University-Fresno

How Can Brain Imaging Data Help Educational Research?

Daniel Thompson Willingham, University of Virginia

A Developmental fMRI Study of Cortical Activation in Response to Relational Reasoning and Basic Calculation Tasks

Clancy Blair, Penn State University

Paul Joseph Eslinger, Penn State University

Hilary Knipe, The Pennsylvania State University

Jennifer Realmuto, Penn State University

Eric W. Cummings, The Pennsylvania State University

David P. Baker, The Pennsylvania State University

David A. Gamson, The Pennsylvania State University

Steven Thorne, The Pennsylvania State University

Beyond Dyscalculia: The Neural Bases of Elementary School Mathematics

Sashank Varma, Stanford University

Daniel L. Schwartz, Stanford University

Bruce McCandliss, Sackler Institute for Developmental Psychobiology, Weill Medical College of Cornell University

Invited Session: *The Cognitive Neuroscience of Language: Implications for Educational Research*

4:05pm - 6:05pm

Sheraton Chicago Hotel & Towers, Chicago Ballroom, Section VIII, Level 4

Carol Fry Bohlin, California State University-Fresno

Age of Acquisition, Language Proficiency and the Bilingual Brain

Arturo Hernandez, University of Houston

Effects of Deafness and American Sign Language on Vision and Short-Term Memory

Daphne Bavelier, University of Rochester

Neural correlates of vocabulary acquisition: Evidence from dense-array EEG

Gwen Alexandra Frishkoff, University of Pittsburgh

Early Language Learning and the Brain: Implications for Education

Patricia Kuhl, University of Washington

Thursday, April 12th

Invited Session: *Social Neuroscience: Are there Implications for Education?*

Thu, Apr 12 - 8:15am - 9:45am

Sheraton Chicago Hotel & Towers, Ohio, Level 2

Chair: David Wodrich, Arizona State University

Social Neuroscience: From Selfish Genes to Social Brains

John Cacioppo, University of Chicago

Imitative Learning and Social Cognition: Development and Brain

Andrew Meltzoff, University of Washington

Roundtable: *Educational Neuroscience: Research Studies II*

Thu, Apr 12 - 1:15pm - 1:55pm

Hyatt Regency Chicago, Grand Ballroom, Sections C-D North, East Tower - Gold Level

Human-Computer Interactions between Preservice Teachers and Computer-Enhanced Mathematics Learning Environments

Stephen R. Campbell, Simon Fraser University

SIG President's Letter

Dear SIG members and conference attendees:

My association with the BNE SIG began six years ago with a single submission. Since then I have served as program chair and president. These positions have provided me a unique perspective on the development of a new field: Educational Neuroscience. I have had the pleasure of being invited to meetings and conferences and have had the opportunity to meet many of the prominent researchers in education and cognitive neuroscience. I have watched our SIG grow from 80 members to now over 200 and the number of submissions for the annual meeting increase by more than 400%. I am proud to have organized some wonderful (in the full sense of the word) sessions in the last few years and I have been honored to work with

colleagues who I greatly respect and whose company I have truly enjoyed. It is then with a twinge of sadness that I move on to new challenges, but I am comforted by the professionalism and commitment of our new officers: SIG President David Wodrich and Program Chair Jeffery Gilger. I would also like to extend my gratitude to all of our SIG members whose financial and professional support provides us with the opportunity to maintain a forum for researchers to share their findings with all the members of AERA.

Sincerely,

Michael Atherton

