



## Brain, Neurosciences, & Education SIG Newsletter

American Educational Research Association

New York, NY

Spring 2008

### SIG Business Meeting

#### ***Brain, Neurosciences, and Education SIG Business Meeting***

**Time:** Monday, March 24, 6:15pm – 8:15 pm

**Location:** Sheraton New York Hotel & Towers/Executive Conference Center, Conference Room K, Lower Lobby

**Note:** All current SIG members and interested AERA members are welcome to attend.

### Invited Session

#### ***Neuroscience and Implications for the Future of Educational Practice***

**Time:** Tuesday, March 25, 8:15am - 10:15am

**Location:** New York Marriott Marquis, Times Square/ Wilder Room, 4<sup>th</sup> Floor

Jeffrey W. Gilger, Purdue University, Chair

*Genetics, Neuroscience, and Education*

Elena L. Grigorenko, Yale University

*The Reading Brain*

Maryanne Wolf, Tufts University

*A Neuroscience Approach to Gifts and Deficits in the Classroom*

Gordon Sherman, The New Grange School

### Paper Sessions

#### ***Implications of Neuroscience for Practice and Research***

**Time:** Wednesday, March 26, 10:35am – 12:05 pm

**Location:** New York Marriott Marquis, Times Square, Marquis Ballroom, Salon C, 9<sup>th</sup> Floor

George G. Hruby, Utah State University, Chair

*Education and Neuroscience: Identifying Interesting Interfaces*

Tamara Van Gog, Open University – The Netherlands

Ton De Jong, University of Twente

Jeroen Jg Van Merrienboer, Open University-The Netherlands

Sarah A. Manlove, Twente University

*Models of Research Using Multiple Levels of Analysis to Bridge Brain, Mind, and Education*

Lori Ann Diehl, University of Cincinnati

Rhonda Douglas Brown, University of Cincinnati

Sashank Varma, Stanford University, Discussant

## ***New Data on the Neuroscience of Language and Math-Related Skills***

**Time: Friday, March 28, 2:15pm – 3:45pm**

**Location: Hilton New York/Nassau Suite B, 2<sup>nd</sup> Floor**

David Lane Wodrich, Arizona State University, Chair

*Brief Training with Iconic Gesture Lends a Hand to Word Learning in a Foreign Language*

Spencer Kelly, Colgate University

*Inferior Frontal Activation Predicts Development of Compensatory Reading Skills in Dyslexic Adolescents*

Fumiko Hoeft, Stanford University

Candy Ho, Stanford University

Joshua Heitzmann, Stanford University

Charles Hulme, University of York

Heikki Lyytinen, University Of Jyvaskyla

Bruce McCandliss, Sackler Institute-Weill Cornell Medical College

John Gabrieli, Massachusetts Institute of Technology

Allan Reiss, Stanford University

*Learning and Understanding Division: A Study in Educational Neuroscience*

Stephen R. Campbell, Simon Fraser University

Kerry Handscomb, Simon Fraser University

Rosemary Tannock, University of Toronto, Discussant

## **Roundtable**

**Time: Thursday, March 27, 4:05pm – 4:45pm**

**Location: New York Marriott Marquis Times Square/ Broadway Ballroom, Broadway North, 6<sup>th</sup> Floor**

*Adults' Difficulties in Learning to Read New Scripts Fluently: A Neuropsychological Riddle that Needs Solutions*

Helen Abadzi, World Bank

*Can the Difference Between Education and Neuroscience Be Overcome by MBE?*

Boba M. Samuels, University of Western Ontario

*EEG Mapping of the Child Neurocognitive Development in the School Environment*

Armando Freitas da Rocha, RANI

Fabio Theoto Rocha, School of Medicine

(Some content/title details may be subject to change when the session occurs)

## SIG Update

New York is a wonderful venue for a conference, and we anticipate an exciting set of papers. The past several AERA annual meetings have seen growing attendance at our SIG's sessions. This fact reflects growth among AERA's members in our SIG's core mission: "to promote an understanding of neuroscience research within the educational community. We hope to achieve this goal by promoting neuroscience research that has implications for educational practice and by providing a forum for the issues and controversies connecting these two fields." This year, we offer a diverse array of papers presented by scholars from North America, South America, and Europe. These comprise excellent oral papers and roundtable presentations selected from submissions, which were subject to peer review, as well as invited papers from researchers with special expertise that permits them to speak to the SIG's most pressing questions.

Our SIG is also flourishing. Our membership roster now numbers 217, and we enjoy financial stability despite the purchase of audio-visual equipment last year required by invited speakers. An annual SIG dinner has become a great success. It allows SIG members (and other interested parties) a chance to discuss ideas and to get to know one another.

We encourage you to attend our sessions, share word about our SIG with friends and colleagues, submit papers in the next cycle, visit our website or contact any of the SIG officers directly to make suggestions.

Looking to the future, a new Secretary-Treasurer will be announced at our business meeting. Our current officers are: Jeffrey W. Gilger, Program Chair; Michael Atherton, Secretary-Treasurer; and David L. Wodrich, President. Jeff is the Associate Dean for

Discovery and Faculty Development at Purdue University, Michael is a recent PhD from the University of Minnesota who continues to reside in the Twin Cities, and David is associate professor, Psychology in Education, at Arizona State University.

## News

- The newly formed International Mind, Brain, and Education Society (IMBES) has published a new journal in Educational Neuroscience. Anyone who is interested in joining their organization can download a membership form from their website: [www.imbes.org](http://www.imbes.org).
- The University of British Columbia will be hosting a conference, "Brain Development & Learning: Making Sense of the Science" in August. For additional information visit their website: [http://www.interprofessional.ubc.ca/brain\\_dev\\_and\\_learning.html](http://www.interprofessional.ubc.ca/brain_dev_and_learning.html).
- Although it is too late for this set of grants, the National Science Foundation is funding research that investigates the neural basis of math and science education. For details see: <http://www.nsf.gov/pubs/2007/nsf07595/nsf07595.htm>. Maybe next time!

## SIG Membership

For information about how to join the Brain, Neurosciences, and Education SIG visit our website at [www.umn.edu/~athe0007/BNEsig](http://www.umn.edu/~athe0007/BNEsig) or send an email to [athe0007@mn.rr.com](mailto:athe0007@mn.rr.com).

# Notes