

**Conference on Research and Training in Spatial Intelligence  
Friday, Saturday, & Sunday, June 13-15, 2008**

	<b>Time</b>	<b>Agenda Item</b>
	5:00 – 5:30pm	Registration, Noyes Room, 9 <sup>th</sup> Floor
	5:30-7:30	Reception, Hinman Foyer, 9 <sup>th</sup> Floor
Friday	7:30 – 8:30pm	<p>Welcome <i>David Uttal &amp; Kedmon Hungwe</i></p> <p>Keynote address, Hinman auditorium, 9<sup>th</sup> floor <i>Chair: Sheryl Sorby, Michigan Tech University</i> <i>Marcia Linn</i> University of California, Berkeley</p> <p><b>Spatial experience, technology and cognition</b></p>
Saturday	8:00 – 10:00	<p>Hinman auditorium, 9<sup>th</sup> floor <i>Chair/Discussant: Susan Levine, University of Chicago</i></p> <p><i>Lynn Liben</i> Penn State <i>Kim Kastens</i> Columbia University <i>Adam Christensen</i> Penn State</p> <p><b>Basic Spatial Concepts in Learning Geology</b></p> <p><i>Jessie Bullens</i> <i>Albert Postma</i> Helmholtz Research Institute</p> <p><b>The role of landmarks in the development of object location memory</b></p> <p><i>Yvonne S. Kao</i> <i>John R. Anderson</i> Carnegie Mellon University</p> <p><b>Contributions of Spatial Skills to Geometry Achievement</b></p> <p><i>Eric N. Wiebe</i> <i>James Minogue</i> <i>Mike Carter</i> <i>Lauren Madden</i> <i>John Bedward</i> North Carolina State University</p> <p><b>Improving Early Spatial Intelligence Through Science Notebook Graphic Production: Effective Elementary Classroom Practices</b></p>

	10:00-10:30 am	Saturday morning break
	10:30 – 12:30	<p>Hinman auditorium, 9<sup>th</sup> floor  <i>Chair/Discussant: Glenn Gordon Smith, University of South Florida</i></p> <p><i>Beth Casey</i>  <i>Marina Vasilyeva</i>  <i>Eric Dearing</i>  Boston College  <b>Spatial and Numerical Predictors of Measurement Performance in Boys and Girls from Low-and High-Income Communities</b></p> <p><i>Alexander Klippel</i>  <i>Frank Hardisty</i>  Pennsylvania State University  <b>Visual Analytics and the Geometry of Thought— Spatial Intelligence through Sapient Interfaces</b></p> <p><i>Philip J Gersmehl</i>  <i>Carol A Gersmehl</i>  New York Center for Geographic Learning  <b>Test Results Associated with the Use of Geography Materials that Employ Specific Modes of Spatial Thinking in Kindergarten and Grades One and Two</b></p> <p><i>Marty Carr</i>  <i>Pat Janes</i>  <i>Sara Woodruff</i>  University of Georgia  <b>Spatial ability and gender as predictors of mathematics problem solving skills in elementary school</b></p>

	12:30-1:30	<i>Lunch at Hotel Orrington</i>
Saturday	1:30-3:00	<p>Hinman auditorium, 9<sup>th</sup> floor  <i>Chair/Discussant: Marvin Bollman, Milwaukee College of Engineering</i></p> <p><i>Sheryl Sorby, Kedmon Hungwe, Tom Drummer</i>  Michigan Technological University  <b>Is mental rotation the foundation of spatial thinking?</b></p> <p><i>Norma Veurink</i>  <i>AJ Hamlin</i>  <i>Sheryl Sorby</i>  Michigan Technological University  <b>EnViSIONS: Incorporating spatial visualization Curriculum across the United States</b></p> <p><i>Maartje de Goede</i>  <i>Albert Postma</i>  Utrecht University  The Netherlands  <b>Experience and retrieval mode as potential modulating factors in gender differences in distance knowledge of a daily environment.</b></p>
	3:00-3:30pm	<i>Saturday Afternoon Break</i>

Saturday	3:30-5:30pm	<p>Hinman auditorium, 9<sup>th</sup> floor  <i>Chair/Discussant: Nora Newcombe, Temple University</i></p> <p><i>Benjamin Jee</i>  <i>David H. Uttal</i>  <i>Dedre Gentner</i>  <i>Cathy Manduca</i>  <i>Thomas Shipley</i>  <i>Brad Sageman</i>  <i>Carol J. Ormand</i>  <i>Basil Tikoff</i>  Northwestern University</p> <p><b>It's (sometimes) easy to find fault: Comparison and perceptual learning of a spatial Geoscience concept by experienced and inexperienced students</b></p> <p><i>Ameya Athavankar</i>  CEPT University, India</p> <p><b>Built form as visual-spatial confrontation</b></p> <p><i>Shannon L. Fitzhugh</i>  <i>Thomas F. Shipley</i>  <i>Nora Newcombe</i>  <i>Kathleen McKenna</i>  <i>Dominique Dumay</i>  Temple University</p> <p><b>Mental Rotation of Real World Shepard-Metzler Figures: An Eye Tracking Study</b></p> <p><i>ME Struiksma</i>  Utrecht University  <i>M.L. Noordzij</i>  Univ. Nijmegen,  <i>SFW Neggers</i>  University Medical Centre, Utrecht  <i>A. Postma</i>  Utrecht University</p> <p><b>How do we process text with spatial information?</b></p>
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Dinner will be at Mt Everest restaurant in Evanston at 6:30 pm  
See attached document for points of interest around Evanston during the weekend of the conference

Sunday	8:00-10:0am	<p>Hinman auditorium, 9<sup>th</sup> floor  <i>Chair: Marijn Struiksma</i>  <i>Discussants: Marijn Struiksma, Jessie Bullens, Maartje de Goede, Ineke van der Ham</i>  Utrecht University</p> <p><i>Giorgio Ganis</i>  Harvard Medical School, Department of Radiology;  Harvard University, Department of Psychology; Athinoula A. Martinos Center for Biomedical Imaging, Massachusetts General Hospital.  <i>William L. Thompson</i>  Harvard University, Department of Psychology  <i>Nora S. Newcombe</i>  Temple University, Department of Psycholog  <i>Rebecca Wright</i>  Oxford University, Department of Experimental Psychology, UK  <i>Stephen M. Kosslyn</i>  Department of Neurology, Massachusetts General Hospital;  Harvard University, Department of Psychology  <b>Training Generalized Spatial Skills</b></p> <p><i>Shannon Fitzhugh</i>  <i>Alexandra Morrison</i>  <i>Thomas F. Shipley</i>  <i>Jason Chein</i>  <i>Nora Newcombe</i>  Temple University  <b>The effects of working memory training versus spatial visualization training on spatial intelligence</b></p> <p><i>Linda Liu</i>  <i>David Uttal</i>  Northwestern University  <i>Nora Newcombe</i>  Temple University  <b>A Meta-analysis of Training Effects on Spatial Skills:What Works, for Whom, Why and for How Long?</b></p> <p><i>Ineke J. M. van der Ham</i>  <i>Albert Postma</i>  Experimental Psychology, Utrecht University  <b>Spatial perception and hemispheric lateralization – a factor analysis approach</b></p>
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	10-10:30 am	<i>Sunday morning break</i>
Sunday	10:30 – 12:30	<p>Hinman auditorium, 9<sup>th</sup> floor  <i>Chair/Discussant: David Uttal</i>  <i>Northwestern</i></p> <p><i>Susan C. Levine</i>  <i>Susan Goldin-Meadow</i>  <i>Stacy Ehrlich</i>  <i>Kimloan Tran</i>  University of Chicago  <b>Can Gesture Improve Children’s Mental Rotation:  A training study</b></p> <p><i>Dr. Glenn Gordon Smith</i>  University of South Florida  <b>Embedding computers in books to improve spatial  situation models</b></p> <p><i>Uday Athavankar</i>  Indian Institute of Technology  <b>Exploring the Boundaries of Spatial Intelligence</b></p> <p><i>Cheryl A. Cohen</i>  <i>Mary Hegarty</i>  University of California, Santa Barbara  <b>Spatial Visualization Training Using Interactive  Animation</b></p>
	12:30 – 12:40	<b>Closure</b> <i>Sheryl Sorby</i> <i>Michigan Technological University</i>
	12:40-1:40pm	<i>Lunch at Hotel Orrington</i>

**Below is a list of Chicago/Evanston attractions the weekend of the conference:**

*Compiled by Bridget O'Brien, Bridget O'Brien, Northwestern University*

**CHICAGO**

- \* Millennium Park
  - o Grant Park Music Festival
    - + 6/13 @ 6:30pm and 6/14 @ 7:30pm: Beethoven's Missa Solemnis
- \* White Sox (must buy tickets in advance)
  - o 6/13 @ 7:11pm, 6/14 @ 6:05pm, 6/15 @ 1:05pm
- \* Navy Pier Fireworks
  - o 6/14 @ 10:15pm
- \* Wicked (must buy tickets in advance)
  - o 6/13 & 6/14 @ 8pm, 6/15 @ 2pm
- \* Jersey Boys (must buy tickets in advance)
  - o 6/13 & 6/14 @ 8pm, 6/15 @ 2pm
- \* The Field Museum (daily 9a–5p)
- \* Shedd Aquarium (week 9a–5p, weekend 9a–6p)
- \* Museum of Science and Industry (M–Sat 9:30a–4:00p, Sun 11a–4p)
- \* Michigan Ave Shopping

**EVANSTON**

- \* Porgy and Bess at Fleetwood–Jourdain Theatre (should buy tickets beforehand)
  - o 6/14 @ 7pm, 6/15 @ 3pm
- \* Ravinia (must buy tickets in advance)
  - o 6/13 @ 8pm–Isaac Hayes & Roberta Flack
  - o 6/14 @ 7:30pm– Los Tigres del Norte
  - o 6/15 @ 7pm– Kenny Loggins
- \* Old Orchard Shopping Mall (Outdoor)
- \* Botanic Garden (7am–9pm)
- \* Local restaurants, bars, shops, beach, Bahai Temple