

1084-97-95

**Edward D. Laughbaum\*** (elaughba@math.ohio-state.edu), 231 West 18th Avenue,  
Columbus, OH 43210. *Connections from Brain Science to Teaching Connections.*

Teaching to the way the brain understands mathematics and to the way it stores and recalls in the long term will be the primary focus of this session. Current teaching practice often forces the brain to use working memory as the structure for memory formation and recall. But “working memory” is fragile and requires constant review to maintain the integrity of the content. The presenter will provide a lesson on core brain function that applies to teaching algebra for understanding and long-term memory with recall. In addition to the neuroscience, the presenter will share sample algebra lessons that implement the neuroscience. (Received August 25, 2012)