West Virginia University

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Using Browser-based Tools and Eye-tracking Technology to Study Student Problem Solving

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Browser-based tools collected quantitative data from students in introductory chemistry at the tertiary level. A word problem tool used a set of variables generated by an algorithm. A second tool was for drawing Lewis dot structures including atoms, electrons, bonds and charges. The third tool examined the particulate nature of matter in which spheres represent atoms, ions or molecules. In addition, eye-tracking hardware examined proton NMR problems and finding structural features.

Date: Wed, Nov 29, 2017

Time: 4:30-5:30 pm

Location: 208 Clark Hall

Students, meet the speaker over coffee and cookies in the Bennett Conference room at 3:30 pm