

1116-J5-2631      **Matt Roscoe\*** ([matt.roscoe@umontana.edu](mailto:matt.roscoe@umontana.edu)). *A Technology-Assisted, Inquiry-Based Approach to Teacher Education Using GeoGebra.*

GeoGebra is free dynamic geometry-algebra-statistics software that provides new and exciting possibilities for the mathematical preparation of teachers. In this session I will give a brief introduction to GeoGebra and then describe the affordances of the use of GeoGebra in promoting technology-assisted, inquiry-based learning as part of the regular training of future mathematics teachers at both the elementary and secondary levels. Specifically, I will describe an inquiry-based series of laboratory activities aimed at elementary school teachers in a geometry content course and a series of investigations aimed at secondary school mathematics teachers in a course on mathematical modeling. Web resources, lab activities, investigations and examples of student work will be shared. (Received September 22, 2015)