1056-K1-1474 **Tibor Marcinek*** (marci1t@cmich.edu), 117 Pearce Hall, Central Michigan University, Mount Pleasant, MI 48859. *Geometric Constructions as Interactive Java Applets with Feedback Feature.*

The ability of exporting dynamic geometry constructions into html pages with embedded interactive applets numbers among standard features of current dynamic geometry software. In the presentation, we will focus on a unique type of Java applets, called construction assignments, that provide immediate feedback after solving the assignment ("Well Done!" message). Such assignments can be designed and generated in a Java-based, open source dynamic geometry software Compass and Ruler (C.a.R.) and we will briefly describe various options of the final design of applets. Participants are encouraged to bring their Internet-enabled laptops as we will demonstrate the feedback feature using simple, puzzle-like assignments. We will also provide several classroom vignettes from geometry courses for teachers to discuss the educational potential and consequences (positive as well as negative) of the automatic direct feedback that applets provide.

A selection of construction assignments (that will not be included in the presentation) created by the author can be accessed at http://www.marcinek.sk/cmich/java . (Received September 21, 2009)