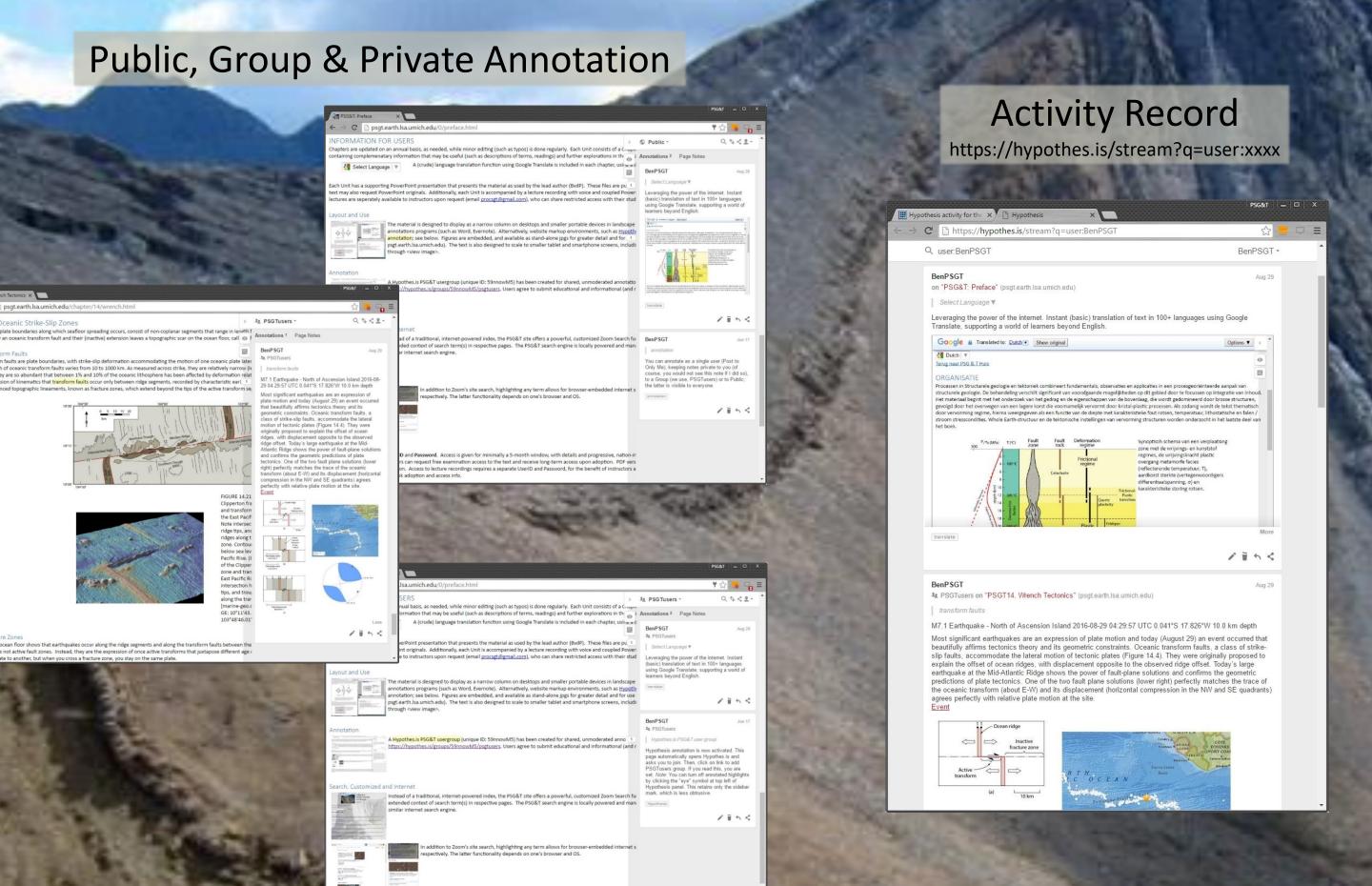


## TEACHING AND LEARNING COMMUNITIES THROUGH ONLINE ANNOTATION - Ben van der Pluijm, University of Michigan



Time 2 A ‡ B

Ever wonder what colleagues do with textbook material, or what they say about it? Want students to be more engaged in their learning experience? If so, online materials that support standard lecture format provide new opportunity through managed, online group annotation that leverages the ubiquity of internet access and enables personalized learning.

The annotation concept is illustrated with the online textbook "Processes in Structural Geology and Tectonics", which includes a platform for sharing of experiences, supplementary materials and approaches; for example, readings, mathematical applications, exercises, challenge questions, quizzes, alternative explanations, and more.

The annotation framework used is **Hypothes.is**, which offers a free, open-platform markup environment for annotation of websites and PDFs. The annotations can be public, grouped or individualized, as desired, and includes export and download of annotations. A teacher group, hosted by a moderator/owner, can limit access to members of a user group of teachers, so that they can use, copy or transcribe annotations for their own lesson material. Likewise, an instructor can host a class group that encourages sharing of observations, questions and answers among students and instructor. Or, the instructor can create one or more closed groups that offers study help and hints to students. Options galore, all of which aim to engage students and to promote greater responsibility for their learning experience.

Beyond new capacity, the ability to analyze student annotation can identify and support individual learners and any special needs. For example, student notes can be analyzed for key phrases and concepts, and identify misunderstandings, omissions or problems with the material. Also, example annotations can be shared by the instructor to improve critical thinking, notetaking skills, and to help with studying. Lastly, online annotation allows active use of posted PowerPoint lecture slides, supporting real-time notetaking during lecture presentation.

Experiences and practices of annotation could benefit teachers and learners alike, and does not require software, coding skills or special hardware environments. Give it a try!

LINKS:

**Export & Analysis** 

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Hypothes.is: https://hypothes.is/
Processes in SG&T: http://psqt.earth.lsa.umich.edu/

CONTACT:

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DOWNLOAD POSTER: http://psgt.earth.lsa.umich.edu/0/2016GSAposter.pdf

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