

Name: Alan Gould  
Email: agould@berkeley.edu  
Institution: University of California - The Lawrence Hall of Science  
Title: Kepler Variable Star Interactive  
Type: Poster  
Session: Stellar Activity, Rotation, Ages, Metallicity  
Abstract: The Kepler Education and Public Outreach (EPO) has a modest plan for new activities in the Kepler Extended mission, but we have been fortunate to add an unexpected new element thanks to Kepler Guest Observer Jennifer Cash from South Carolina State University who is working on a related NASA funded JOVE project for development of an activity to teach the general public about the types of variable stars that might be seen by Kepler and walk them through the process of examining a light curve to determine the type of variability present. This presentation gives status of the project including results from in-person meeting 2013 July 9-12, progress in Javascript programming by team member Shilindria Rivers to create light curve plots with interactivity, creating a unified light curve data format compatible with both Kepler light curves and AAVSO reference light curves and that can be read by our javascript. Conversion of Kepler flux values into magnitudes to be consistent with AAVSO data will also make it easier to construct explanations to public audience of the web site. Professor Cash is identifying the Kepler targets that have light curves that show clear types of variability across a range of intrinsic variables from both pulsators and cataclysmic variables as a "challenge set" for website visitors to identify variable star types. The already- approved EPO projects in the Extended Mission include an online teacher workshop, a public exoplanet artwork project, and mini-planetarium shows. Co-authors: Toshi Komatsu, Gary Nakagiri, Jennifer Cash [am willing to do this as poster if schedule time slots are too scarce]