Michael’s 2017 Fall Goals:

1. **Write MDAP step 2……………………………………………………………….....10/19**
   1. **Objectives and significance………………..……………………………..…10/15**
   2. **Background and Motivation.……………………...……..…………………10/15**
   3. **Technical approach and methodology……………………...………………10/01**
      1. **Likely need to contact Jim and Deanne for this**
      2. **Would like to ask Deanne for some sample THEMIS spectra possibly**
   4. **Perceived Impact………………………………..……………………..……10/15**
   5. **Programmatic relevance**
   6. **Budget……………………………..…………………………………………..9/15**
      1. **One page biographical sketches (same format)**
      2. **Current and pending support sheets**
   7. **Data Management Plan.………………………..…………………….……..10/15**
      1. **Ask for Jeff’s from last year**
   8. **Plan of work……………………..…………...………………………………10/15**
2. **Write NAI-related paper** (*we could split this up into photogeologic and spectral…)*
   1. Finish introduction/background/motivation………………………………….**11/01**
   2. Complete data analyses and writing methods section………………….……**…..?**
      1. DEM analyses
         1. In-depth characterization of each analog habitat, 3D models
         2. Correlation of inhabited areas on features of interest with:
            1. Topography
            2. Sun exposure
      2. Spectral analyses
         1. Orbital
            1. Broad assessment of context mineralogy?
            2. HYPERION?
         2. Field
            1. Minerals found immediately above/below/within inhabited areas
            2. How many bands and at what wavelengths are necessary to detect these minerals
            3. How much :: before gypsum is obscured?

mixture of mafic material

dust cover

* + - * 1. If the rest of the scene is bland, how much of a CRISM pixel needs to be filled by gypsum to see it?
    1. Image analyses
       1. Detailed morphologic characterization of analog habitats
          1. Compile set of diagnostic characteristics for object-based analysis (multivariate analysis)
          2. Measure certainty of characterization with decreasing resolution
  1. Finish paper….………….………….……………….………….…………….**?**

1. **LPSC abstract and talk or poster on basin massif project**