GEM 2012 – Overview
Scientific Magnetic Mapping and Techniques

- Types of mapping
  - Successful examples

- Inputs -> Outputs
  - Science questions (http://bit.ly/mapping_science)

- Review paper (gather volunteers)
- Challenge definition (invite participation)

- Joint session, late growth phase mapping

**Monday, Salon D, 3:30**

* Natalia Ganushkina, Interhemispheric magnetic conjugacy
** Chia-Lin Huang, comparison of different field models to measured fields at GOES
** Mike Henderson, Tutorial on Event-Based Modeling
* Kyungguk Min, New, rapid L* calculation
* Jun Liang, In-situ calculation of magnetic field-line curvature
* Gang Lu, Magnetic field modeling constrained by GOES and THEMIS
* Rob Redmon, DMSP auroral boundaries  + Joachim Birn + Bob Strangeway

**Tuesday, Salon D, 3:30**

** Toshi Nishimura: Mapping implications of the onset arc location relative to the Birkeland Currents
** Jun Liang: The magnetospheric "root" of the onset auroral arc
** Larry Lyons: Mapping implications of the very thin auroral oval in the late growth phase
** Jian Yang: Growth phase magnetic field model

**Thursday, Salon C, 3:30 (DATE CHANGE)**
Challenge

- Bring ideas
- Form, output?
- Mini-GEM, decision
  - Evaluate some candidates
  - Encourage proposals
  - CCMC support