




May 7, 2009

Meeting Location: Campus Center (Room 240)

- 08:30 AM** Light Breakfast
- 08:45 AM** Introduction to Workshop and Roundtable Group Introductions
Al Weatherwax, Andrew Gerrard, and PENGUIn Team
- 09:00 AM** Introduction to NJIT, Dr. Dale Gary (NJIT) (Siena)
- 09:10 AM** Overview of Funding Status, Al Weatherwax
- 09:20 AM** Review of 2008/2009 Field Season (Discussion Leader: Al Weatherwax)
- Automatic Geophysical Observatories (AGO)
 - Bob Melville (NJIT)
 - Low Power Magnetometers (LPM)
 - Bob Clauer (Virginia Tech)
 - Autonomous Real-time Remote Observatory (ARRO)
 - Paul Riley & Marc Lessard (UNH)
 - Ultra Low Power ELF/VLF Platforms
 - Umran Inan/ & Maria Spasojevic (Stanford)
- 10:30 AM** **Break** 
- 11:00 AM** High Level Overview of Science Plans (Discussion Leader: Maria Spasojevic)
- **Team Action Item:** Each group needs to submit one slide in advance so we can compile them into one document and take turns going around the room with a brief discussion. Thank you for those who already provided a slide.
 - Overview of the recent meeting in Oslo on dayside cusp and polar cap ionosphere.
 - Marc Lessard (UNH)
- 12:30 PM** Lunch at Eberhardt Hall
- 02:00 PM** Engineering Breakout Session (see potential agenda items below)
- 02:00 PM** Recent Science Results, Event Studies, and Collaborative Projects

The following talks are not intended to be AGU is style. We want a workshop atmosphere.

- VLF Transmitter Science Update and Plans
 - Umran Inan (Stanford)
- Drivers of Chorus in the Outer Dayside Magnetosphere
 - Maria Spasojevic (Stanford)



New Jersey Institute of Technology

- Coordinated dayside observations with AGO-s and the NASA THEMIS satellites.
 - Stephen Mende (Berkeley)
- A comparison of ground and satellite observations of Pi1B pulsations
 - Marc Lessard (UNH)
- AGO observations of Pc12 ducting.
 - Marc Lessard (UNH)
- Conjugate Magnetic Observations
 - Bob Clauer (VT)
- Thermospheric Hemispheric Asymmetries
 - Aaron Ridley (U. of Michigan)
- New comparisons between the MHD code and ground-based magnetometers
 - Aaron Ridley (U. of Michigan)
- Imaging, Estimation, and Analysis of Density Distributions in the Conjugate Polar Ionospheres: A proposal to install GPS receivers at the AGO sites
 - David Murr (Augsburg)
- AGO Weather Summaries and Science
 - Noel Petit (Augsburg)
- MF Emissions
 - Jim LaBelle (Dartmouth)
- Polar Cap and PCS Indices
 - Al Weatherwax (Siena)

05:30 PM Tour “AGO” Lab (time permitting)

06:30 PM Group Dinner 

Engineering Breakout Session – Potential Discussion Topics

- DAU/DAS for ARRO/AGO
 - Support into the future and possible redesign?
 - Legacy support for units in the field as well as software for database/ground support.
 - What improvements can be made?
- Stilts
 - UNH will need to finalize design for ARRO “jackable” stilt design
 - Discuss with field members advantages/disadvantages of current AGO design.
 - What can we add/change to our current design to address current issues.
- Ground Support
 - Where will the ground support hardware (antenna, hardware etc) exist for AGO?
 - Where will the ground support hardware (antenna, hardware etc) exist for ARRO?
- Database for and data availability of data for ARRO and LPM.
 - Does it make sense to merge this into the system already available at Augsburg and if so what would UNH need to provide to accomplish this.
- Future ARRO/AGO/LPM installations.
 - What can be learned from AGO/LPM field crew to provide improvements for future installation
 - Where can we overlap with respect to AGO/ARR/LPM O design to ease with support and design knowledge in the field.
 - Discussion on power systems of all systems and AWP future availability



May 8, 2009

Meeting Location: Campus Center 225

- 08:30 AM** Light Breakfast (Room TBD)
- 09:00 AM** Review of Science Discussions and Action Items (Al Weatherwax, Maria Spasojevic)
- 09:15 AM** Review of Engineering Breakout Session (Bob Melville, Paul Riley, William Rachelson)
- 09:30 AM** Engineering, Data and Housekeeping Discussions
- IRIDIUM and Data Transfers, Dan Detrick (UMD)
 - Data collection, storage and presentation, Noel Petit (Augsburg)
 - Data Website Deployment, Noel Petit (Augsburg)
 - Antarctic Portal, Al Weatherwax (Siena College)
 - Joomla Installation (see <http://antarctic.siena-space.org/>)

Please make suggestions and comments.