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# EVE Space Weather & Operations Workshop

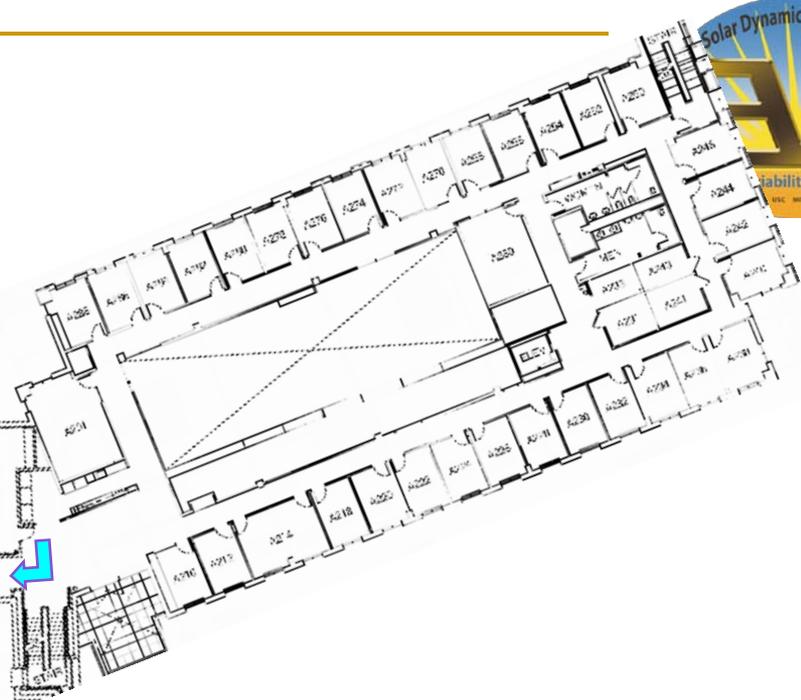
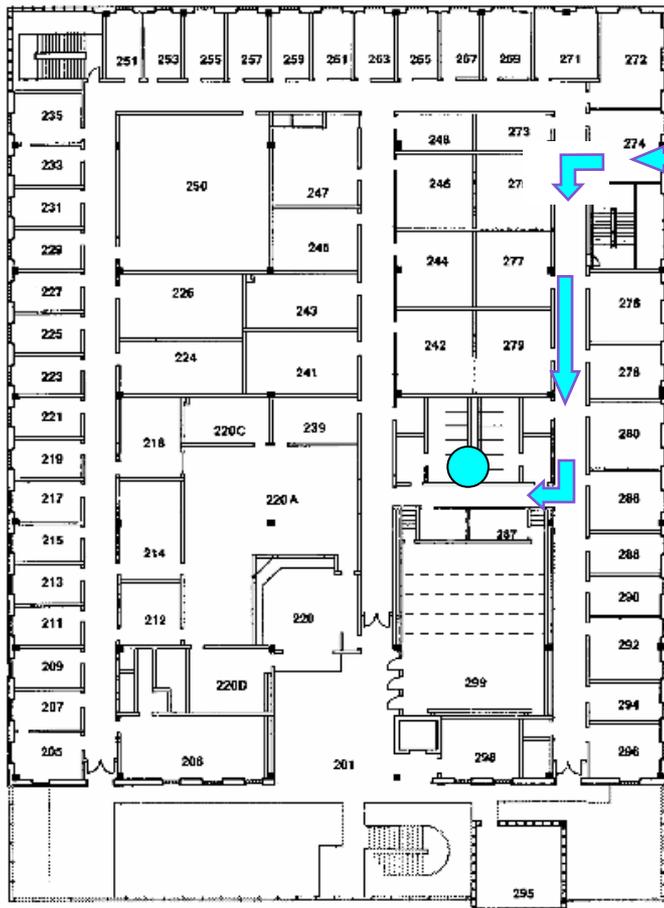
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University of Colorado – LASP  
October 6 – 8, 2010

# LASP "Road Map"



**LASP Space Technology Building (LSTB)  
(2nd Floor)**



- ★ LSTB A200 (Workshop)
- Restrooms



# Workshop Goals



- To present the EVE status and measurements to the EVE space weather and geospace science team members (to get you as excited as we are!)
- To explore the needs of the SWx, Geospace, and Operations communities and how EVE can serve those needs:
  - For science research
  - For operations
- To make plans for:
  - Future meetings and papers
  - Future research and interactions
  - Potential adjustments in EVE measurements and data products
- This is a workshop, not a conference!

# Agenda – Wednesday, October 6, Afternoon



- 1:00 pm – 5:00 pm (with a break around 3:00 pm)
- Welcome and Workshop Goals – Frank Eparvier
- **Session 1: EVE Status:**
  - **Goal: Present the state of the EVE instrument and data products**
- SDO Project Status – Phil Chamberlin
- EVE Instrument & Science First Results – Tom Woods, Rachel Hock, & Frank Eparvier
- ESP Status – Leonid Didkovsky
- MEGS Degradation Issues – Tom Woods, Rachel Hock, others
- EVE Operations – Karen Bryant
- EVE Sounding Rocket and Validation Efforts – Frank Eparvier
- EVE Data Processing Status – Don Woodraska
- ESP Particle Detection for Removal – Seth Wieman
- EVE Space Weather Data Product Status – Chris Jeppesen

# Agenda – Wednesday, October 6, Evening



- **LASP PUBLIC LECTURE**
- **“Our Eye on the Sun”**
- **Dr. Tom Woods, CU/LASP**
- **Wednesday October 6th, 7:30pm**
- **LASP Auditorium 299**
- **Abstract:**
  - We’ve got new eyes staring at the Sun! NASA’s Solar Dynamics Observatory (SDO) launched on February 11, 2010 and is observing the Sun with unprecedented resolution. The solar instruments aboard SDO have 16 Megapixel cameras, more than eight times better resolution than High Definition (HD) TVs. Images and spectra are obtained every 10 seconds, 24/7, and are revealing new results about solar storms. Understanding the Sun is critical to life on Earth since it provides the majority of energy for our environment, and our ever-growing technology is sensitive to large solar storms. Dr. Woods will give an overview of the Sun’s influence on Earth and the new SDO mission, along with dazzling new movies from SDO.

# Agenda – Thursday, October 7, Morning



- 8:30 am – 12:00 pm (with a break around 10:00 am)
- **Session 2: EVE and Space Weather Science:**
  - **Goal: Ascertain the needs and desires of the Geospace and Space Weather Science Community for EVE data**
- The USU / GAIM Perspective – Kent Tobiska
- The NOAA Perspective – Tim Fuller-Rowell / Mihail Codrescu
- ESP and Energetic Particle Acceleration Model – Leonid Didkovsky
- Creating an S10 (or SEM 26-34) index from EVE – Andrew Jones
- More on what we've been seeing in EVE data - All
- Other Perspectives & Science Results
- Discussion:
  - What we're seeing in EVE data
  - What new science can we do with EVE
  - What does the SWx science community want from EVE and EVE data

# Agenda – Thursday, October 7, BBQ Lunch!



- 12:00 pm – 1:30 pm on the LASP Patio (front lobby if raining)
- **EVE, a Constant Celebration of Data and New Findings!**
- **A BBQ Lunch Hosted by Tom Woods**
- Join the LASP team that built, tested, and operates EVE
- RSVP to Vanessa George ([vanessa.george@lasp.colorado.edu](mailto:vanessa.george@lasp.colorado.edu)) if you haven't already.

# Agenda – Thursday, October 7, Afternoon



- 1:00 pm – 5:00 pm (with a break around 3:00 pm)
- **Session 3: EVE and Space Weather Operations**
  - **Goal: Present the state of the EVE instrument and data products**
- ESP Flare Location – Andrew Jones
- The SWPC Perspective – Rodney Viereck
- The SET Perspective – Kent Tobiska
- Synergy of EVE with other SDO Instruments – Frank Eparvier
- Other Perspectives & Operations Ideas
- Discussion:
  - What foresee EVE doing for SWx
  - For what new operational uses can we use EVE data
  - How do we get the operations folks to use EVE data

# Agenda – Friday, October 8, Morning



- 8:30 am – 12:00 pm (with a break around 10:00 am)
- **Session 4: On-Going EVE Planning and EVE Operations**
  - **Goal: Make firm plans for EVE Operations, Data Processing, and Research**
- Continued Discussions
- Future Meetings and Papers
- Summarize Workshop Results and Actions
- Adjourn