

AMS SHORT COURSE: SPACE WEATHER

6 JANUARY 2013

AUSTIN CONVENTION CENTER

AUSTIN, TX

ORGANIZERS

Tom Bogdan, Chris St Cyr, LtCol Chris Smithtro, Bob Rutledge

AMS COMMITTEE ON SPACE WEATHER

Robert McCoy, Chair

Rich Behnke, Geoff Crowley, Genene Fisher, Karen Shelton-Mur, Kent Tobiska, Bill Murtagh, Joe Kunches, Dean Pesnell, Marsha Korose, Delores Knipp, Richard Clark, Trey Cade, Adam Jacobs

This course is co-sponsored by UCAR, NASA, NSF and the American Commercial Space Weather Association (ACSWA) with participation from Atmospheric and Environmental Research (AER), Atmospheric and Space Technology Research Associates (ASTRA), Carmel Research Center (CRC), Computational Physics, Inc (CPI), Predictive Science, Inc (PSI), Space Environment Corporation (SEC), and Space Environment Technologies (SET).

PROGRAM (Room 18D)

12:30 P.M.	ARRIVAL AND INTRODUCTIONS. Chris St Cyr, NASA Goddard Space Flight Center, LtCol Chris Smithtro, United States Air Force, and Bob Rutledge, NOAA Space Weather Prediction Center	2:55 P.M.	GPS APPLICATIONS – POSITIONING, NAVIGATION, AND TIMING. Geoff Crowley, ASTRA
SECTION ONE: OVERVIEW		3:15 P.M.	SATELLITES AND COMMUNICATIONS. Joe Mazur, Aerospace Corporation
12:40 P.M.	THE SUN – OUR MAGNETICALLY VARIABLE STAR. Dean Pesnell, NASA Goddard Space Flight Center	3:35 P.M.	SPACEFLIGHT (HUMAN AND ROBOTIC). Eddie Semones, NASA Johnson Space Center
1:00 P.M.	EARTH'S ROLE – SPACE WEATHER IMPACTS TO PLANETS WITH MAGNETIC FIELDS AND/OR ATMOSPHERES. Delores Knipp, Univ. of Colorado	3:55 P.M.	BREAK
1:20 P.M.	SOLAR AND GEOMAGNETIC ACTIVITY: Dean Pesnell, NASA Goddard Space Flight Center	SECTION THREE: COMMUNICATING TO THE PUBLIC	
1:40 P.M.	SPACE WEATHER FORECASTING – ANOLOGIES TO WEATHER. Bill Murtagh, NOAA Space Weather Prediction Center	4:10 P.M.	BROADCAST METEOROLOGIST PERSPECTIVES – THE FIRST LINE OF DEFENSE FOR SPACE WEATHER QUESTIONS. Alex Young, NASA Goddard Space Flight Center
2:00 P.M.	BREAK	4:30 P.M.	GOVERNMENT SERVICES. Bob Rutledge, NOAA Space Weather Prediction Center
SECTION TWO: SOCIETAL IMPACTS		4:50 P.M.	SERVICES IN THE COMMERCIAL SECTOR. Kent Tobiska, SET
2:15 P.M.	POWER GRID. Antti Pulkkinen, Catholic Univ. of America and NASA Goddard Space Flight Center	5:10 P.M.	ONLINE EDUCATIONAL RESOURCES. Liz Page, UCAR/COMET
2:35 P.M.	AVIATION. Joe Kunches, NOAA Space Weather Prediction Center	5:20 P.M.	CONCLUDING REMARKS. Chris St Cyr, NASA Goddard Space Flight Center, LtCol. Chris Smithtro, United States Air Force, and Bob Rutledge, NOAA Space Weather Prediction Center
		5:30 P.M.	SHORT COURSE ADJOURNS