



Agenda

2015 CEDAR Workshop

"Basic Questions of the Atmospheres"

(All Workshops to be held in Kane 110 unless otherwise noted)

Sunday 21 June		
CEDAR Student Workshop (Non-students Welcome) Theme - Basic Questions of the Atmosphere Kane Hall Room 110		
0800-0900	Registration/Sign Travel Vouchers	Kane Hall Room 110
0900-0925	Student Welcome from CSSC	Josh Semeter (Boston University, CSSC chair)
0925-0940	Agenda information and organizational details	Lindsay Goodwin (U Saskatchewan, Canada) and Leda Sox (Utah State) (CSSC Student Reps)
0940-1010	How do electromagnetic fields and plasma relate? (The basic physics of plasma in an electromagnetic field)	Roger Varney (SRI International)
1010-1025	<i>Break</i>	
1025-1055	Why is the F-peak at the F-peak? (Photoionization and other important ionospheric chemistry)	Dave Hysell (Cornell University)
1055-1125	How does the Earth's magnetic field influence different latitudes? (A brief guide to high-, mid-, and low-latitudes with respect to the Earth's magnetic field)	Art Richmond (NCAR High Altitude Observatory)
1125-1155	How does energy from magnetic storms get transferred from high to low latitudes? (Energy transfer in the atmosphere)	Anthea Coster (Massachusetts Institute of Technology)
1155-1325	Lunch	
1325-1355	What is the influence of E-region electrojet turbulence on the ionosphere? (The basics of ionospheric instabilities)	John Sahr (University of Washington)
1355-1425	How does the media get space physics wrong? (Space physics, the military, the media, and you)	Phil Erickson (Massachusetts Institute of Technology)
1425-1455	What is the influence of waves on the UPPER MESOSPHERE AND lower thermosphere? (Neutrals, waves, and the general circulation of the MLT environment)	Maura Hagan (NCAR High Altitude Observatory)
1455-1510	<i>Break</i>	
1510-1530	"Don't Just Get Mad! How to help Government Craft good Science Policy"	Katelynn Greer (Assistant Research Physicist, University of California Berkeley)
1530-1610	Career Panel: "Is there life after graduation?"	Loren Chang (Assistant Professor, Institute of Space Science, National Central University, Taiwan), Elizabeth Fucetola (Lincoln Lab), Stephen Kaeppler (Geospace Postdoctoral Fellow SRI International), and Jeffrey Klenzing (Research Scientist, NASA/GSFC)
~1610	<i>Adjourn</i>	
1630-1830	Annual CEDAR Soccer Game and Ultimate Frisbee	Denny Field
1830-2100	CSSC Dinner (invitation only)	Hotel Deca
Monday 22 June		
		* indicates Workshop Convener
0700-0800	Student Breakfast with Paul Shepson, AGS Division Director of NSF	120 Kane Hall (Walker Ames Room)

0800-0815	Plenary Kane 130: Welcome by CSSC, NSF, U WA	Josh Semeter (BU, CSSC chair), Paul Shepson (NSF, AGS Div Dir), Brian Fabien (U of WA, Assoc Dean Eng)
0815-0825	Report of Student Workshop	Lindsay Goodwin (USask, CSSC year 1 student representative)
0825-0835	Introduction of Students by Institution	Leda Sox (USU, CSSC year 2 student representative)
0835-0920	CEDAR Prize #26: Thermospheric dynamics as observed through the lens of networked FPIs	Jonathan Makela (U IL)
0920-0945	<i>Break</i>	
0945-1045	CEDAR Distinguished Lecture #5: The Ionosphere Occurs in Both Hemispheres	Michael Mendillo (BU)
1045-1105	Science Highlight #1: Studying gravity waves using mesoscale-resolving Whole Atmosphere Community Climate Model	Hanli Liu (HAO/NCAR)
1105-1120	NSF Geospace Update	Paul Shepson
1120-1135	NSF Geospace Portfolio Review Update	Bill Lotko (chair)
1135-1205	NSF Geospace Portfolio Review Town Hall	chaired by Bill Lotko and panel members
1205-1330	Lunch	
1330-1530 <small>[Click on Room# for agenda]</small>	Kane 130: Grand Challenge A: Coupling and Transport Processes from the Upper Mesosphere through the Middle Thermosphere (80-200 km)	*J Thayer, C Gardner, G Swenson
	Kane 110: (A) Global Support of the CARINA Science Mission to Study the Lower Thermosphere	*P Bernhardt and A Bhatt
	Kane 210: Distributed observatories of small instruments: Science and assimilation	*C Valladares, T Bullett, V Eccles, F Rodrigues, E Yizengaw
	Kane 220: Storm-time variations in the ionosphere and thermosphere and preconditioning	*Y Zhang and L Paxton
1530-1600	<i>Break</i>	
1600-1800 <small>[Click on Room# for agenda]</small>	Kane 130: Grand Challenge B: Coupling and Transport Processes from the Upper Mesosphere through the Middle Thermosphere (80-200 km)	*J Thayer, C Gardner, G Swenson
	Kane 210: Ground-based support for ICON and GOLD	*J Makela, D Anderson, C Martinis, H Frey
	Kane 220: Geospace disturbances during the March 17, 2015 great storm	*S Zhang and W Wang
~1830-2030	Dinner with speaker Bob McCoy (U AK)	South HUB Ballroom
Tuesday 23 June		
0815-0915	Grand Challenge Tutorial: Magnetosphere-Ionosphere-Thermosphere Coupling During Storms and Substorms	Bill Lotko (Dartmouth)
0915-0935	Science Highlight #2: An Overview of the DEEPWAVE Field Program	Dave Fritts (GATS Inc)
0935-1000	<i>Break</i>	
1000-1200 <small>[Click on Room# for agenda]</small>	Kane 130: Grand Challenge A: Storms and Substorms Without Borders (SSWB)	*N Maruyama, A Mannucci, JM Ruohoniemi, J Baker, P Erickson, S Shepherd
	Kane 110: Collaborative Studies of Coupling Processes over the Andes	*A Liu, J Snively, Y Zhao, S Smith, C Martinis
	Kane 220: Developing Strategies for Enhancing CEDAR Science in Student Research, Curriculum, and Outreach	*K Nielsen and S Nossal
1200-1330	Lunch	
1330-1530 <small>[Click on Room# for agenda]</small>	Kane 130: Grand Challenge B: Storms and Substorms Without Borders (SSWB)	*N Maruyama, A Mannucci, JM Ruohoniemi, J Baker, P Erickson, S Shepherd
	Kane 110: DEEPWAVE - Gravity Wave Coupling from Lower Atmosphere Sources Throughout the MLT	*D Fritts, M Taylor, S Smith
	Kane 210: C/NOFS: Topside/bottomside dynamics	*L Gentile, C Fesen, P Roddy
1530-1600	<i>Break</i>	
1600-1900	Poster #1: MLT	2nd Floor Mezzanine and Walker Ames Room
Wednesday 24 June		
0815-0915	Tutorial: The Equatorial Ionosphere	Bela Fejer (Utah State)
0915-0935	Science Highlight #3: Andes LIDAR Observatory (ALO)	Gary Swenson (University of Illinois)
0935-1000	<i>Break</i>	
1000-1200 <small>[Click on Room# for agenda]</small>	Kane 130: Grand Challenge: The high-latitude geospace system	*J Semeter, JP St Maurice, H Dahlgren, M Zettergren, G Perry, M Nicolls
	Kane 110: Understanding Dynamical and Chemical Coupling from Tides, Planetary and Gravity Waves	*L Chang and J Yue
	Kane 220: Conjugate Observations and Models of ionospheric processes	*C Martinis, C Valladares, A Coster
1200-1330	Lunch / Student Pizza Lunch with a Q+A Panel (By George Cafe)	Q+A Panelists: Scott England, Lindsay Goodwin, Maura Hagan, Aaron Ridley, Josh Semeter, Leda Sox
1330-1530	Kane 130: Magnetosphere-Ionosphere-Thermosphere Coupling in the Polar Cap: Drivers and Impacts	*C Huang, Y Huang, A Gerrard, G Bust
	Kane 110: Lidar Workshop: Space-Atmosphere Interaction, Wave Dynamics and Cosmic Dust Studies with Lidar Technology Transformation	*X Chu and T Yuan

1330-1530	Kane 210: Lightning and thunderstorm effects in the mesosphere and ionosphere	*R Marshall and E Lay
	Kane 220: HAARP Application to CEDAR Science	*W Bristow, D Hysell, A Ridley, M Nicolls, M Conde
1530-1600	<i>Break</i>	
1600-1900	Poster #2: IT	2nd Floor Mezzanine and Walker Ames Room
Thursday 25 June		
0815-0915	Special Lecture: "CEDAR: Past, Present and Some Suggestions for the Future"	Rich Behnke (retired NSF)
0915-0930	Programmatic: CEDAR Student Poster Prize Winners	Greg Earle and Anja Stromme (CSSC)
0930-1000	<i>Break</i>	
1000-1200	Kane 130: Inner Magnetospheric and Ionospheric Coupling and Dynamics	*A Gerrard and P Erickson
	Kane 110: Calibration and analysis techniques for passive optical and lidar observations	*S Nossal, J Baumgardner, D Hampton
	Kane 210: (A) Jicamarca: New instruments, radar modes and results	*D Hysell, M Milla, F Rodrigues
	Kane 220: CEDAR-GEM Modeling Challenge	*JS Shim, B Emery, M Kuznetsova, T Fuller-Rowell, Y Zhang, C Huang
1200-1330	Lunch	
	<i>or</i>	
1200-1330	CSSC Lunch (invitation only)	UW President's Club
1330-1530	Kane 130: Energy input and partitioning in the ionosphere-thermosphere system	*Y Deng, O Verkhoglyadova, G Lu
	Kane 210: Coordinated ISR observation days for 2016	*I McCrea and E Spanswick
	Kane 220: Meteoroids and Space Debris	*J Urbina and S Close
1530-1600	<i>Break</i>	
1600-1800	Kane 130: Long-term variations in the geospace environment	*J Klenzing and A Burrell
	Kane 110: (B) Global Support of the CARINA Science Mission to Study the Lower Thermosphere	*P Bernhardt and A Bhatt
	Kane 210: (B) Jicamarca: New instruments, radar modes and results	*D Hysell, M Milla, F Rodrigues
1800	<i>Adjourn</i>	