Agenda for 2010 CEDAR Workshop
20 June - 25 June 2010
University of Colorado
Boulder, Colorado

Sunday, 20 June 2010

	CEDAR Student Workshop (Non-students Welcome) **Theme – Equatorial Aeronomy: Phenomena and Outstanding Questions** **All sessions will be held in Math 100 unless otherwise noted**	**Co-Chairs:** **Elizabeth Bass (BU)** **Marco Milla (U IL)** **(CEDAR student reps)**
08:00-09:00	Registration, Sign Travel Vouchers	North Entrance to Math Bldg.
09:00-09:10	Student Welcome from NSF	F. Kamalabadi (NSF)
09:10-09:30	Student Welcome from CSSC	J. Thayer (CSSC chair)
09:30-09:40	Agenda Information and Organizational Details	E. Bass and M. Milla (CSSC student reps)
09:40-10:40	*Keynote Talk #1*: Equatorial Aeronomy from a Radar Perspective	D. Hysell (Cornell)
10:40-10:55	--- Break ---	
10:55-11:25	The Ionosphere in Motion: Winds, Waves and Electrodynamics	R. Varney (Cornell)
11:25-11:55	Meteors	J.Fentzke (CoRA)
11:55-12:00	URSI Student Opportunities	S. Briczinski (U WI)
12:00-13:30	Lunch on own at UMC or area restaurants	
13:30-14:00	Equatorial Electrojet	P. Alken (NOAA)
14:00-14:30	Equatorial Spread F	E. Miller (APL)
14:30-14:45	--- Break ---	
14:45-15:45	*Keynote Talk #2*: Modeling and Forecasting the Equatorial Ionospheric Density and Scintillation	O. de La Beaujardiere (AFRL)
15:45	Adjourn	
16:00-19:00	Free time for student recreation (Annual CEDAR Soccer Game, Ultimate Frisbee; etc)	Business Field
19:00-20:00	Pizza and Salad for Students and Soccer Players	Outside Darley Commons at Williams Village

Monday, 21 June 2010

All sessions will be held in Math 100 unless otherwise noted

07:15-08:00	Registration	North Entrance to Math Bldg.
08:00-08:15	Welcome from NSF/CSSC	R. Behnke (NSF) J. Thayer (CSSC)
08:15-08:20	Introduction of CEDAR Postdocs	F. Kamalabadi (NSF)
08:20-08:30	Introduction of Students by Institution	M. Milla (U IL)
08:30-08:40	Report of Student Workshop	E. Bass (BU)
08:40-09:10	NSF Aeronomy and Geospace Reviews	F. Kamalabadi (NSF) R. Behnke (NSF)
09:10-09:40	--- Break ---	
09:40-10:00	Inception of the New CEDAR Plan	R. Robinson (NSF)
10:00-10:40	CEDAR: The New Dimension	J. Thayer (CSSC chair)
10:40-11:00	Future NSF Initiatives of Relevance to CEDAR	F. Kamalabadi (NSF)
11:00-11:15	Execution of the CEDAR Plan	J Foster (CSSC chair-elect)
11:15-13:00	Lunch on own	

13:00-15:00	▪ W#1: Jicamarca and C/NOFS: The Beginning of Solar Cycle 24 **(Math 100)** ▪ W#1: North American Regional DASI **(Benson 180)** ▪ W#1: Calibration of Optical Data **(Engineering 265)** ▪ W#1: Small-scale Dynamics in the MLT: A Tribute to Edmond Dewan, a valued colleague and friend **(Engineering 245)**	▪ D. Hysell, J. Chau, M. Milla, O. de La Beaujardiere, R. Stoneback ▪ A. Coster, J. Ruohoniemi, J. Baker ▪ S. Nossal, J. Baumgardner ▪ D. Fritts, D. Picard, J. Winick
15:00-16:00	Networking Break (coffee only) ---Or--- Students Meet with NSF **(Benson 180 with special snacks outside)** ---Or--- W#1.5: CARE 2 Planning Workshop **(Engineering 151)**	 ▪ P. Bernhardt
16:00-18:00	▪ W#2: Jicamarca and C/NOFS: The Beginning of Solar Cycle 24 (continued)**(Math 100)** ▪ W#2: Midlatitude Stratosphere, Mesosphere and Lower Thermosphere (SMLT) Science Enabled by Lidar and Other Ground-based Observations **(Benson 180)** ▪ W#2: Calibration of Optical Data (continued)(**Engineering 265)** ▪ W#2: Lightning Effects on the Upper Atmosphere **(Engineering 245)** ▪ W#2: Probing the Physics of the Ionosphere with Active Experiments **(Engineering 151)**	▪ D. Hysell, J. Chau, M. Milla, O. de La Beaujardiere, R. Stoneback ▪ T. Yuan, M. Taylor, J. She ▪ S. Nossal, J. Baumgardner ▪ N. Liu, M. Stanley, M. Taylor ▪ P. Bernhardt, P. Erickson, A. Bhatt
18:30-21:30	CEDAR 25th Anniversary Banquet	Ballroom of Millennium Hotel
~19:45-20:45	CEDAR 25th Anniversary Anecdotal Talks	J. Romick (U AK), J. Salah (MIT) and M. Mendillo (BU)
~20:45-21:15	CEDAR 25th Anniversary Perfect Attendance and Past CSSC Chair Awards	J. Thayer (CSSC Chair)

Tuesday, 22 June 2010

All sessions will be held in Math 100 unless otherwise noted

08:00-10:00	▪ W#3: Atmospheric Coupling During Stratospheric Sudden Warmings **(Math 100)** ▪ W#3: Arecibo Friends **(Benson 180)** ▪ W#3: Cubesat, Constellation Mission Planning **(Engineering 265)** ▪ W#3: Recent Advances in Mid-latitude Thermosphere-ionosphere Interaction Study **(Engineering 245)**	▪ L. Goncharenko, H. Liu, L. Harvey, J. Chau ▪ P. Santos, C. Brum, S. Gonzalez ▪ G. Swenson, D. Klumpar ▪ Q. Wu, R. Kerr
09:00-10:30	Put all Posters up in Stadium Club	5th Floor
10:00-10:30	--- Break ---	
10:30-11:15	CEDAR Prize Lecture: Using Active Experiments to SEE and HEAR the Ionosphere	P. Bernhardt (NRL)
11:15-11:30	The New Arecibo Heater: Status and Future Plans	M. Sulzer (Arecibo) or A. Bhatt (MIT)
11:30-13:30	Lunch on own	

13:30-15:30	▪ W#4: Atmospheric Coupling During Stratospheric Sudden Warmings (continued) **(Math 100)** ▪ W#4: Low-latitude Ionospheric Sensor Network (LISN): Scientific Results and Future Projects **(Benson 180)** ▪ W#4: Mid-to-high Latitude Ionospheric Irregularities and Experimental Opportunities with the Radio Aurora Explorer Satellite Mission**(Engineering 265)** ▪ W#4: Ionospheric Data Assimilation: Driver Estimation **(Engineering 245)**	▪ L. Goncharenko, H. Liu, L. Harvey, J. Chau ▪ C. Valladares, T. Bullett, J. Chau, V. Eccles, J. Sojka, R. Woodman ▪ H. Bahcivan and J. Cutler ▪ G. Bust, X. Pi
15:30-16:00	--- Break (coffee only) ---	
16:00-19:00	MLT Poster Session #1 and Reception	Stadium Club 5th Floor
19:15-21:45	CSSC Dinner Meeting	Zolo Southwestern Grill

Wednesday, 23 June 2010

All sessions will be held in Math 100 unless otherwise noted

08:00-09:00	CEDAR Distinguished Lecture: The NCAR Themrospheric General Circulation Models (TGCMs): Past, Present and Future	R. Roble (NCAR)
09:00-09:15	CEDAR Post-Doc Final Report #1: Magnetospheric Energy Input Uncertainty and its Impact on the Thermosphere/Ionosphere	Y. Deng (UT Arlington)
09:15-09:30	CEDAR Post-Doc Final Report #2: Temporal Modulations of the Four-peaked Longitudinal Structure of the Equatorial Ionosphere by Planetary Waves from COSMIC-GPS Occultations	G. Liu (UCB)
09:30-10:00	--- Break ---	
10:00-10:20	Memorial Talk #1: Remembering Henry Rishbeth	M. Mendillo (BU)
10:20-10:40	Science Highlight #1: Stormtime Ionospheric Redistribution at Mid-Latitudes: A Coupled Geospace Phenomenon	P. Erickson (MIT)
10:40-11:10	Science Highlight #2: Modeling Efforts to Explain Observed Trends in the Upper Atmosphere and Ionosphere	L. Qian (NCAR)
11:10-11:30	Some Highlights from the TRENDS 2010 Workshop	S. Solomon (NCAR)
11:30-13:30	Lunch on own	
13:30-15:30	▪ W#5: Meteoroids and Meteors: Impact Effects **(Math 100)** ▪ W#5: Satellite-based Measurements of the Ionosphere and Plasmasphere Using the Global Positioning System **(Benson 180)** ▪ W#5: Andes Lidar Observatory (ALO) Workshop **(Engineering 265)** ▪ W#5: World Day Planning **(Engineering 245)**	▪ S. Close and L. Dyrud ▪ A. Mannucci, W. Schreiner, X. Yue, X. Pi ▪ G. Swenson and A. Liu ▪ I. Haggstrom , M. McCready
15:30-16:00	--- Break (coffee only) ---	
16:00-19:00	IT Poster Session #2 and Reception (non-judged posters down between 19:00-20:30, judged posters down between 20:15-20:30)	Stadium Club 5th Floor

Thursday, 24 June 2010

All sessions will be held in Math 100 unless otherwise noted

08:00-09:00	CEDAR Tutorial #1: The Earth's Hydrogen Corona	E. Mierkiewicz (U WI)
09:00-09:20	Science Highlight #3: CCMC Research and Education Resources for the CEDAR Community	J.S. Shim (CCMC)
09:20-09:30	Announcement of Poster Prize Winners	M. Conde and S. Skone (CSSC)
09:30-10:00	--- Break ---	

10:00-10:20	Memorial Talk #2: Remembering Bill Gordon	R. Behnke (NSF)
10:20-10:40	Science Highlight #4: PFISR Science: The First Three Years	J. Semeter (BU)
10:40-10:55	CEDAR Post-Doc Final Report #3: Nocturnal SHS Observations of the 372.7nm O+ Doublet	S. Briczinski (U WI)
10:55-11:10	CEDAR Post-Doc Final Report #4: Airglow Signatures of Gravity Waves Near the Onset of Dissipation	J. Snively (USU)
11:10-11:15	Announcement of New CSSC Members	NSF
11:15-11:25	Announcement of the Transition of the CSSC Chair and Team	J. Thayer to J. Foster
11:25-13:30	Lunch on own ---Or--- CSSC Lunch (South Alcove of Stadium Club)	
13:30-15:30	▪ W#6: Magnetosphere-Ionosphere Coupling **(Math 100)** ▪ W#6: Mini Lidar School for CEDAR Community **(Benson 180)** ▪ W#6: Equatorial-PRIMO (Problems Related to Ionospheric Models and Observations) **(Engineering 265)** ▪ W#6: Chemistry and Temperatures from the Upper Mesosphere to the Lower Thermosphere: Connecting Satellite Observations to Ground-based Measurement and Model Results **(Engineering 245)**	▪ J. Semeter, J. Sojka, B. Bristow, T. van Eyken, L. Zhu, M. Nicolls ▪ X. Chu and C. She ▪ T. Fang and D. Anderson ▪ R. Bishop, S. Budzien, A. Stephan, S. Bailey, G. Crowley, S. Smith
15:30-16:00	--- Break (coffee only) ---	
15:45-17:45	W#7 Bus Field Trip to Table Mountain: Mini Lidar School for CEDAR Community	X. Chu and C. She
16:00-18:00	▪ W#7: High Latitude Plasma Structures (HLPS2) **(Math 100)** ▪ W#7: Using WACCM for Studying the Atmosphere **(Benson 180)**	▪ J. Sojka, J. Semeter, B. Bristow, T. van Eyken, L. Zhu, M. Nicolls ▪ A. Ridley, D. Marsh, H. Liu

Friday, 25 June 2010

All sessions will be held in Math 100 unless otherwise noted

08:00-10:00	▪ W#8: Recent Advances in Modeling the Ionosphere **(Benson 180)** ▪ W#8: Turbopause: Measurements, Concepts and Implications **(Engineering 265)** ▪ W#8: Equatorial Aeronomy Across South America **(Engineering 245)**	▪ J. Huba, R. Schunk, A. Ridley ▪ G. Lehmacher, R. Collins, M. Larsen ▪ J. Makela, A. Gerrard, J. Meriwether
10:00-10:30	--- Break ---	
10:30-12:30	• W#9: CEDAR Electrodynamics Thermosphere Ionosphere (ETI) Challenge **(Benson 180)** • W#9: Turbopause: Measurements, Concepts and Implications **(**continued) **(Engineering 265)** • W#9: Equatorial Aeronomy Across South America (continued) **(Engineering 245)**	• M. Kuznetsova, J.S. Shim, B. Emery, A. Ridley, J. Lei • G. Lehmacher, R. Collins, M. Larsen • J. Makela, A. Gerrard, J. Meriwether
12:30	ADJOURN	