

Agenda for 2007 CEDAR/DASI Workshop
24-29 June 2007
Eldorado Hotel
Santa Fe, New Mexico

Sunday, 24 June 2007

	CEDAR Student Workshop (Non-students Welcome) Theme - Winds in the Upper Atmosphere: Physics, Observations, and Empirical Models Zia	Co-Chairs Romina Nikoukar (U IL) and Michael Nicolls (SRI Intl) (CEDAR student reps)
08:00 and 08:30	Bus departs from Fort Marcy Suites to Eldorado	
08:10-08:55	Breakfast, Registration, Sign Travel Vouchers	concourse
08:55-09:10	Student Welcome	J. Sojka (CSSC chair) and R. Behnke (NSF)
09:10-09:20	Agenda information; organizational details; activity information	R. Nikoukar and M. Nicolls (CSSC student reps)
09:20-10:20	Keynote Speech #1: Neutral dynamics in the upper atmosphere	J. Forbes (U CO)
10:20-10:40	--- Break ---	
10:40-11:40	Keynote Speech #2: Neutral winds and their role in ionospheric electrodynamics	A. Richmond (NCAR)
11:40-13:00	Lunch on own at area restaurants	
13:00-13:30	Wind observations - Rockets	M. Larsen (Clemson U)
13:30-14:00	Wind observations - Meteor radars	S. Palo (U CO)
14:00-14:30	Wind observations - Active optics	C. Gardner (U IL)
14:30-14:50	--- Break ---	
14:50-15:20	Wind observations - Passive optics	R. Kerr (Arecibo)
15:20-16:00	Neutral wind models	J. Emmert (NRL)
16:00	Adjourn	
16:10	Bus departs Eldorado for Fort Marcy Suites	
16:00-19:00	Free time for student recreation (soccer, volleyball, etc.) 4:30 – 5:30: Gym reserved for volleyball (one net) 4:30 – 5:30: Lap swimming available at \$1.85 pp, bring own towel Outdoor baseball field available for soccer and frisbee	Ft. Marcy Recreation Center -and- Ft. Marcy Park baseball field – first come, first serve
19:15	Bus departs Fort Marcy Suites for Eldorado	
19:30-21:00	Reception/Icebreaker/Buffer for Students and Non-Students	Anasazi and Zia
21:00	Bus from Eldorado to Fort Marcy Suites (via grocery store)	

Monday, 25 June 2007

All sessions will be held in Anasazi unless otherwise noted

07:15 and 07:45	Bus departs from Fort Marcy Suites to Eldorado	
08:00-08:10	Opening Addresses	J. Sojka (CSSC) R. Behnke (NSF) M. Hagan (NCAR)
08:10-08:20	Report on Student Workshop	R. Nikoukar (U IL)
08:20-08:30	Introduction of Students by Institution	M. Nicolls (SRI Intl)
08:30-09:15	CEDAR Prize Lecture: Meteoric smoke - where on earth is it?	J. Plane (U of Leeds, UK)
09:15-09:25	NSF Aeronomy Update	C. Fesen (NSF)
09:25-10:15	--- Break (Posters go up in Pavilion) ---	
10:15-10:30	CEDAR Post-Doc Report #1: Multi-instrument observations on inner-magnetospheric density structures and dynamics	E. Yizengaw (UCLA)

10:30-10:40	NASA Aeronomy of Ice in the Mesosphere (AIM) ground-based update	M. Taylor (USU)
10:40-10:50	Virtual Solar-Terrestrial Observatory (VSTO) and CEDAR DB update	P. Fox (NCAR)
10:50-11:00	NRL Space Science Division jobs for new PhDs	J. Dahlburg (NRL)
11:00-13:00	Lunch on own (CSSC lunch at O'Keefe Cafe)	
	--- OR ---	
11:05	bus departs for shopping at Tin-nee-Ann Trading Company	
12:30	bus departs Tin-nee-Ann Trading Company for Eldorado	
13:00-15:00	<ul style="list-style-type: none"> ▪ Putting your degree to work (Peter Fiske) (Anasazi South) ▪ Meteors and the upper atmosphere (3 hr) (Anasazi North) ▪ Short period gravity waves and their effects in the MLT region (Zia) ▪ Equatorial ionospheric challenges and the C/NOFS mission (Sunset) 	<ul style="list-style-type: none"> ▪ M. Nicolls and R. Nikoukar ▪ L. Dyrud and S. Close ▪ J. Snively, T-Y. Huang, M. Taylor ▪ O. de La Beaujardiere, et. al.
15:00-16:00	--- Networking Break ---	
16:00-19:00	Poster Session #1 (non-MLT)	Pavilion with Break
19:15	Bus departs Eldorado for Fort Marcy Suites after poster session	

Tuesday, 26 June 2007
All sessions will be held in Anasazi unless otherwise noted

07:15 and 07:45	Bus departs from Fort Marcy Suites to Eldorado	
08:00-09:00	Tutorial #1: The micrometeor flux in the MLT	D. Janches (CoRA)
09:00-09:30	--- Break ---	
09:30-11:30	<ul style="list-style-type: none"> ▪ Poker Flat AMISR: The first six months (Anasazi) ▪ Science opportunities with the lidar consortium (Zia) ▪ Data assimilation in space sciences: Methods and results I (Sunset) 	<ul style="list-style-type: none"> ▪ C. Heinselman and M. Nicolls ▪ D. Fritts and C-Y. She ▪ M. Codrescu
	--- OR ---	
09:30-09:45	Gather for SFD tour of Art as Architecture .. (returns 12:45 PM)	extra fee
11:30-13:00	Lunch on own	
	--- OR ---	
11:30-13:00	<ul style="list-style-type: none"> ▪ Virtual Solar-Terrestrial Observatory (VSTO) with lunch (Zia) ▪ The Poker Flat 2007 Winter Campaign (Anasazi South) 	P. Fox
13:00-15:00	<ul style="list-style-type: none"> ▪ Friends of Arecibo I (video con with Arecibo) (Anasazi North) ▪ CEDAR lidar technology workshop (Zia) ▪ Data assimilation in space sciences: Methods and results II (Sunset) 	<ul style="list-style-type: none"> ▪ M. Larsen, J. Craven, and C. Heinselman ▪ S. Gonzalez ▪ X.Chu, C-Y. She, and G. Swenson ▪ M. Codrescu
15:00-16:00	--- Networking Break ---	
16:00-19:00	Poster Session #2 (MLT)	Pavilion with Break
	--- OR---	
15:30-18:30	Bus trip to SFD tour of Backstage Opera and Shidoni Foundry (sign up with Santa Fe Destinations)	extra fee
21:00-21:30	All competition posters taken down - others can go down sooner	
19:15	Bus departs Eldorado for Fort Marcy Suites after poster session	
21:15	Bus departs Eldorado Hotel poster session (competition posters down at 9 PM) to Fort Marcy Suites	

Wednesday, 27 June 2007

All sessions will be held in Anasazi unless otherwise noted

07:15 and 07:45	Bus departs from Fort Marcy Suites to Eldorado	
08:00-09:00	Tutorial #2: State of the art of modeling the mesosphere	D. Siskind (NRL)
09:00-09:10	Announcement of Poster Prize Winners	A. Coster (CSSC)
09:10-09:30	--- Break (winning posters go in hallway) ---	
09:30-11:30	<ul style="list-style-type: none"> ▪ Small Satellites I (Anasazi) ▪ I-T Challenges based on continuous observations through the IPY (or PRIMO II) (Zia) ▪ Radar chain, satellite observations and modelling of Nov 2004 storm I (Sunset) 	<ul style="list-style-type: none"> ▪ D. Klumpar, C. Swenson, and G. Swenson ▪ J. Sojka, A. van Eyken, C. Heinselman, and J. Holt ▪ M. Kelley
11:30-13:00	Pizza Lunch in Anasazi for Small Satellites Workshop or on own	
13:00-15:00	<ul style="list-style-type: none"> ▪ Small Satellites II (Anasazi) ▪ Optical calibration techniques and issues I (Zia) ▪ Impact of electric fields during ionospheric storms (Sunset) 	<ul style="list-style-type: none"> ▪ D. Klumpar, C. Swenson, and G. Swenson ▪ S. Nossal, J. Baumgardner, and M. Taylor ▪ C-S. Huang and T. Fuller-Rowell
15:00-16:00	--- Break ---	
16:00-18:00	<ul style="list-style-type: none"> ▪ Jicamarca Amigos (Anasazi South) ▪ Optical calibration techniques and issues II (Anasazi North) ▪ Developing a coordinated ground- and space-based community approach to understanding the I-T system (Zia) ▪ Radar chain, satellite observations and modelling of Nov 2004 storm II (Sunset) 	<ul style="list-style-type: none"> ▪ D. Hysell and J. Chau ▪ S. Nossal, J. Baumgardner, and M. Taylor ▪ A. Mannucci and L Paxton ▪ M. Kelley
	--- OR ---	
15:30-18:30	Bus trip to SFD tour of Chimayo, Pueblo and White Rock (sign up with Santa Fe Destinations)	extra fee
18:30	Bus departs Eldorado for Fort Marcy Suites	
19:30-21:30	<ul style="list-style-type: none"> ▪ Opportunities for collaborative aeronomical research at Millstone Hill (Zia) 	<ul style="list-style-type: none"> ▪ S. Smith and Q. Wu

Thursday, 28 June 2007

All sessions will be held in Anasazi unless otherwise noted

07:00 and 07:45	Bus departs from Fort Marcy Suites to Eldorado	
07:15-08:00	Student Breakfast with NSF – pick up breakfast from concourse	alcove in Eldorado Court
08:00-09:00	Tutorial #3: State of the Art of Observations of the Mesosphere	J. Meriwether (Clemson U)
09:00-09:15	CEDAR Post-Doc Report #2: Investigating Mesospheric Gravity Wave Propagation and Momentum Flux at Low-latitudes Using Simultaneous Na Lidar and Temperature Mapper Measurements	M. Ejjiir (USU)
09:15-09:25	Interim CEDAR Post-Doc Report #1: Coordinated Space-Based Observations of Equatorial Plasma Bubbles Using TIMED/Global Ultraviolet Imager (GUVI) and Defense Meteorological Satellites Program	J. Comberiate (JHU/APL)
09:25-09:35	Interim CEDAR Post-Doc Report #2: Modeling Studies of Optical Properties of Sprite Streamers and Their Chemical Effects On the Upper Atmosphere	N. Liu (PSU)
09:35-10:10	--- Break ---	

10:10-10:25	In Memory of Tor Hagfors	D. Farley (Cornell)
10:25-10:40	Poker Flat AMISR Update	C. Heinselman (SRI Intl)
10:40-11:00	Science Highlight: An Overview of the 2007 Poker Flat Sounding Rocket Campaign	M. Larsen (Clemson)
11:00-11:10	Announcement of new CSSC Members, CEDAR Chair transition, and end of plenary sessions for CEDAR (Friday is DASI)	R. Behnke (NSF)
	--- OR ---	
09:30-09:45	Gather for SFD tour of Secrets of Canyon Road (returns 11:45 AM)	extra fee
11:30-13:00	Lunch on own (CSSC lunch at O'Keefe Cafe)	
13:00-15:00	<ul style="list-style-type: none"> ▪ Friends of Arecibo II (Anasazi South) ▪ Ionospheric studies using radio occultation electron density profiles (Anasazi North) ▪ The Global-scale Observations of the Limb and Disk (GOLD) Mission (Zia) ▪ Application of SuperDARN Radar Observations to CEDAR Research I (Sunset) 	<ul style="list-style-type: none"> ▪ S. Gonzalez ▪ K. Cahoy ▪ R. Eastes ▪ W. Bristow, J.M. Ruohoniemi, and S. Shephard
15:00-16:00	--- Break ---	
16:00-18:00	<ul style="list-style-type: none"> ▪ Characteristics and Causes of MLT Spatial and Temporal Variabilities (Anasazi South) ▪ World Day Scheduling (Anasazi North) ▪ Lightning Effects on the Upper Atmosphere (Zia) ▪ Application of SuperDARN Radar Observations to CEDAR Research II (Sunset) 	<ul style="list-style-type: none"> ▪ J.-H. Yee and E. Talaat ▪ W. Swartz ▪ M. Stanley, M. Taylor, and N. Liu ▪ W. Bristow, J.M. Ruohoniemi, and S. Shephard
	--- OR ---	
15:20-15:30	Gather for SFD tour of Fine Arts And Frescoes (returns at 17:30) (sign up with Santa Fe Destinations)	extra fee
	--- OR ---	
15:20-15:30	Gather for SFD tour of Mountain Biking (returns at 18:30) (sign up with Santa Fe Destinations)	extra fee
18:15	Bus departs Eldorado for Fort Marcy Suites	

DASI Workshop
Friday, 29 June 2007
All sessions will be held in Anasazi

07:30	Bus departs from Fort Marcy Suites to Eldorado for DASI Workshop	
08:30	Bus departs Fort Marcy Suites for Eldorado (and Colorado)	
08:45	Bus departs Eldorado for drive back to Colorado	
	--- OR ---	
08:00-09:45	DASI Workshop – Morning Session <i>CEDAR Science Challenges for DASI</i> <ul style="list-style-type: none"> ▪ Introduction ▪ DASI Mission Overview ▪ Aeronomy Coupling to the Atmosphere Challenges ▪ Discussion Session I 	<ul style="list-style-type: none"> ▪ M. Kelley, Chair ▪ J. Thayer (CSSC Chair) ▪ E. Donovan (Calgary) ▪ M. Hagan (NCAR) ▪ all
09:45-10:15	---Break---	
10:15-11:30	<ul style="list-style-type: none"> ▪ Aeronomy Coupling to the Magnetosphere Challenges ▪ Discussion Session II 	<ul style="list-style-type: none"> ▪ J. Foster (MIT) ▪ all
11:30-13:00	Lunch on own	

13:00-15:00	DASI Workshop – Afternoon Session <i>Instrumentation and Implementation Challenges for DASI</i> <ul style="list-style-type: none"> ▪ LISN -- Lessons Learned ▪ Multi-Instrument Multi-Site Arrays -- Lessons Learned ▪ SuperDARN -- Lessons Learned ▪ International Deployment ▪ Discussion Session III 	<ul style="list-style-type: none"> ▪ C. Valladares and E. Donovan, Chairs ▪ C. Valladares (BC) ▪ E. Donovan (Calgary) ▪ J.M. Ruohoniemi (JHU/APL) ▪ J. Makela (U IL) ▪ all
15:00-15:30	---Break---	
15:30-17:00	<ul style="list-style-type: none"> ▪ NSF Small Satellites and DASI ▪ Assimilation of DASI Data Streams ▪ Discussion Session IV 	<ul style="list-style-type: none"> ▪ TBD ▪ TBD ▪ all
17:00	--- ADJOURN ---	