

Student, Recent Graduate, and Post-Doc Biographies: CEDAR 2004

ACOTT, Phillip Edward – acott at lamar.colostate.edu, 970-491-5424

Institution/Degree: PhD in Physics at Colorado State University, 2006

Institution/Advisor: Colorado State University with CEDAR advisor Joe She/David Krueger (krueger at lamar.colostate.edu)

Research Interests: Non-linear optics, AOM, lidar, measurements in the mesopause.

Instruments, Models, or Data Used: CSU Na lidar, ALOMAR sfg seeded Weber lidar.

AKGIRAY, Ahmed – aha22 at cornell.edu, 315-278-1010

Institution/Degree: BS in Electrical Engineering at Cornell University, 2005

Institution/Advisor: MIT Haystack with CEDAR advisor Frank Lind (flind at haystack.mit.edu)

Research Interests: Atmospheric Sciences, RF and Microwave Circuitry

Instruments, Models, or Data Used: Oscilloscope and Signal Generator, Digital Multimeter, Digital Source Meter

BAHCIVAN, Hasan – hb53 at cornell.edu, 607-255-8298

Institution/Degree: PhD in Electrical Engineering at Cornell University, 2005

Institution/Advisor: Cornell University with CEDAR advisor David Hysell (daveh at geology.geo.cornell.edu)

Research Interests: Auroral E region.

Instruments, Models, or Data Used: Radars, sounding rockets.

BATEMAN, Shojin G. – shojinbat at yahoo.com, 214-642-4240

Institution/Degree: BS in Physics at UT Dallas, 2005

Institution/Advisor: UT Dallas with CEDAR advisor Dr. Greg Earle (earle at utdallas.edu)

Research Interests: Almost everything.

Instruments, Models, or Data Used: Computer, msis90, etc.

BEKERAT, Hamed – hamed at gaim.cass.usu.edu, 435-797-2939

Institution/Degree: PhD in Physics at Utah State University, 2004

Institution/Advisor: Cass/Utah State University with CEDAR advisor Robert W.Schunk (robert.schunk at usu.edu)

Research Interests: High Latitude Ionospheric Electrodynamics.

Instruments, Models, or Data Used: DMSP DATA, WEIMER MODEL, IGRF MODEL, HARDY PRECIPITATION MODEL, AMIE.

BHATT, Asti – astib at cc.usu.edu, astibhatt at hotmail.com, 435-797-5651

Institution/Degree: PhD in Electrical Engineering at Cornell University, 2007

Institution/Advisor: Cornell University with CEDAR advisor Michael Kelley (mikek at ece.cornell.edu)

Research Interests: Ionospheric Modification – Ionospheric Irregularities, Radio wave propagation between hemispheres

Instruments, Models, or Data Used: HAARP (High-frequency Active Auroral Research Program), SuperDARN (Super Dual Auroral Radar Network), Ionosonde and Riometer at the HAARP site.

BHATTACHARYA, Jainavalkya – yajnaval at yorku.ca, yajnaval at yahoo.com, +1 416-736-2100 x40218

Institution/Degree: PhD in Physics at York University, Toronto, Canada, 2005

Institution/Advisor: York University with CEDAR advisor Gordon G. Shepherd (gordon at yorku.ca)

Research Interests: Dynamics of the Mesosphere-Lower Thermosphere. Remote observations of airglow and MLT winds using a ground based Michelson Interferometer. Spectral/Time Series analysis, especially of unevenly spaced data.

Instruments, Models, or Data Used: Analysis of data collected by ERWIN – a field widened Michelson Interferometer stationed at Resolute Bay, Canada [72.5 N, 95 W] in operation since 1993. Comparison with Stratospheric Assimilated Data from UKMO. Also use published simulation/ model results of Liu and Roble, amongst others. Simultaneous measurements with ERWIN were done for a period with CLIO, a Fabry Perot Interferometer from the Space Physics Research Laboratory, Univ. of Michigan, also stationed at Resolute Bay.

BISHOP, Rebecca – rbishop at clemson.edu, 864-656-6750

Institution/Degree: Post Doc in Physics at University of Texas at Dallas, 2004

Institution/Advisor: Clemson University with CEDAR advisor Dr. Miguel Larsen (mlarsen at clemson.edu)

Research Interests: Mid-latitude Ionosphere, Thermosphere/Ionosphere coupling, Neutral dynamics between 95 and 200 km.

Instruments, Models, or Data Used: Arecibo Observatory, Ionosondes, Rocket chemical releases, mass spectrometers, langmuir probes.

BOULTER, James E. – james.boulter at sri.com, 650-859-2970

Institution/Degree: Post Doc in Chemistry at University of Colorado, Boulder, 2004

Institution/Advisor: SRI International with CEDAR advisor Jochen Marschall (jochen.marschall at sri.com)

Research Interests: Heterogeneous reactions of O(3P) in the MLT; chemistry related to PMC and meteoritic dust particles; also extraterrestrial atmospheric chemistry

Instruments, Models, or Data Used: Laboratory investigations utilizing IR spectrometry, mass spectrometry, and laser-based diagnostics under high-vacuum and low temperature conditions

BRICZINSKI, Stanley J. – sjb144 at psu.edu, 814-865-0188

Institution/Degree: PhD in Electrical Engineering at The Pennsylvania State University, 2006

Institution/Advisor: The Pennsylvania State University with CEDAR advisor John Mathews (jdmathews at psu.edu)

Research Interests: Meteors, Pseudospherical, RADAR, Soul Calibur II

Instruments, Models, or Data Used: Arecibo, Laetitia Casta

BRONN, Justin – jbronn at swri.edu, 210-522-5573

Institution/Degree: BS in Computer Science at Trinity University, 2004

Institution/Advisor: Southwest Research Institute with CEDAR advisor Geoff Crowley (gcrowley at swri.edu)

Research Interests: Computer Science, Aeronomy

Instruments, Models, or Data Used: TGCM, TIMED (GUVI), HF Doppler

BROOKS, Ashley Victoria – ashley.brooks at valpo.edu, 978-692-4764

Institution/Degree: BS in Meteorology at Valparaiso University, 2005

Institution/Advisor: MIT Haystack Observatory with CEDAR advisor Shunrong Zang and John Holt (shunrong at haystack.mit.edu and jmh at haystack.mit.edu)

Research Interests: Radar Meteorology Space Weather Polar Meteorology Gravity Waves Severe Storms

Instruments, Models, or Data Used: This summer I will be working with the Millstone Hill Empirical Model.

BROWN, Lamar Bailes – bailesb at yahoo.com, 864-350-8375

Institution/Degree: BS in Physics at Harvard College, 2007

Institution/Advisor: Clemson University with CEDAR advisor John Meriwether (meriwej at ces.clemson.edu)

Research Interests: Physical science in general as well as astrophysical research, with potential interest in high energy or theoretical physics.

Instruments, Models, or Data Used: All Sky Imager

BYRNES, John – jb1 at alfred.edu, jbyrnes at ieee.org, 607-587-8736

Institution/Degree: PhD in Electrical Engineering at Boston University, 2010

Institution/Advisor: Boston University with CEDAR advisor Joshua Semeter (joshua.semeter at sri.com)

Research Interests: Signal Processing Instrumentation

Instruments, Models, or Data Used: None

CIERPIK, Kim Melissa – cierpik at colorado.edu, 303-735-4238

Institution/Degree: PhD in Aerospace Engineering at University of Colorado, 2004

Institution/Advisor: University of Colorado with CEDAR advisor Prof. Jeffrey Forbes (forbes at colorado.edu)

Research Interests: MLT tides

Instruments, Models, or Data Used: Kyushu University GCM

COMBERIATE, Joseph – comberia at uiuc.edu, 217-333-4152

Institution/Degree: PhD in Electrical Engineering at University of Illinois at Urbana-Champaign, 2005

Institution/Advisor: University of Illinois at Urbana-Champaign with CEDAR advisor Farzad Kamalabadi (farzadk at uiuc.edu)

Research Interests: Image reconstruction and tomography Equatorial ionospheric physics and irregularities, Optical remote sensing and imaging Multi-dimensional signal and image processing

Instruments, Models, or Data Used: Global Ultraviolet Imager (GUVI) Special Sensor Ultraviolet Spectrographic Imager (SSUSI) Parameterized Ionospheric Model (PIM) SAMI2

CRISS, Adrienne – adrienne.criss at jhuapl.edu, 443-778-3971

Institution/Degree: BS in Physics at University of Virginia, 2006

Institution/Advisor: JHU/APL with CEDAR advisor Elsayed Talaat (elsayed.talaat at jhuapl.edu)

Research Interests: Atmospheric Dynamics

Instruments, Models, or Data Used: TIMED/SABER TIMED/TIDI NCEP Reanalysis Data

CULOT, Frederic – frederic.culot at obs.ujf-grenoble.fr, 04 76 51 41 54

Institution/Degree: PhD in AstroPhysics at Universit  Joseph Fourier, 2004

Institution/Advisor: LPG with CEDAR advisor Chantal Lathuill re (Chantal.Lathuillere at obs.ujf-grenoble.fr)

Research Interests: Study of the Earth's upper atmosphere airglow emissions.

Instruments, Models, or Data Used: instrument : WINDII model : TRANSCAR

CURTIS, Natalie – ncurtis at swri.edu, 210-522-5573

Institution/Degree: BS in physics at University of Texas at San Antonio, 2004

Institution/Advisor: Southwest Research Institute with CEDAR advisor Geoff Crowley (gcrowley at swri.edu)

Research Interests: Space physics/weather thermosphere and above

Instruments, Models, or Data Used: Mars Global Surveyor HALOE-UARS ASPEN-TIMEGCM IRI Ionosonde SABER

DE LA PENA, Santiago – santiago.delapena at colorado.edu, 303-735-6621

Institution/Degree: PhD in Electrical Engineering at University of Colorado, 2006

Institution/Advisor: CIRES – University of Colorado with CEDAR advisor Susan Avery (susan.avery at colorado.edu)

Research Interests: MLT Radar Remote Sensing

Instruments, Models, or Data Used: VHF Meteor Radar

DENNEY, Kelly – kelspace at bu.edu, 617-270-9628

Institution/Degree: BS in Astronomy and Physics at Boston University, 2004

Institution/Advisor: Boston University with CEDAR advisor Meers Oppenheim (meerso at bu.edu)

Research Interests: meteor trails and ionospheric physics

Instruments, Models, or Data Used: data from Piura, Altair, and MU

DRAKE, Kelly Ann – dr.kelly at physics.org, 214-223-6011

Institution/Degree: PhD in Physics at University of Texas at Dallas, 2007

Institution/Advisor: University of Texas at Dallas with CEDAR advisor Dr. R. A. Heelis (heelis at utdallas.edu)

Research Interests: Solar wind influences on the high latitude ionospheric electric field.

Instruments, Models, or Data Used: DMSP data (Defense Meteorological Satellite Program), ACE data (Advanced Composition Explorer)

DREXLER, Josef – jdrexler at uwo.ca, +1 519-661-2111

Institution/Degree: PhD in Physics at U of Western Ontario, 2004

Institution/Advisor: U of Western Ontario with CEDAR advisor J.-P. St.-Maurice (jstmauri at uwo.ca)

Research Interests: Atmospheric Irregularities

Instruments, Models, or Data Used: MSIS-90, IRI-2000

DYRUD, Lars – ldyrud at bu.edu, 857-919-4808

Institution/Degree: Post Doc in Astronomy at Boston University, 2004

Institution/Advisor: Boston University with CEDAR advisor Meers Oppenheim (meerso at bu.edu)

Research Interests: Eregion/Fregion instabilities and irregularities. Meteors and Radar

Instruments, Models, or Data Used: Arecibo/ Jicamarca Radars

ERDOGAN, Can – ce33 at cornell.edu, 607-255-4183

Institution/Degree: BS in Electrical Engineering at Cornell University, 2007

Institution/Advisor: Cornell University with CEDAR advisor Michael C. Kelley (mikek at ece.cornell.edu)

Research Interests: Upper Atmospheric Research

Instruments, Models, or Data Used: Airglow camera.

FAIVRE, Michael Laurent – faivre at clemson.edu, 864-656-1427

Institution/Degree: PhD in Atmospheric Physics at Universite Franche-Comte, FRANCE, 2004

Institution/Advisor: Clemson University with CEDAR advisor Dr John Meriwether (meriwej at ces.clemson.edu)

Research Interests: OH mesospheric emission observed with CCD cameras. Tomographic reconstruction of the barycenter of emission from stereoscopic observations. Thermospheric winds and temperatures measurements with Fabry-Perot interferometer, Arequipa. Study of the wind and temperature response to the geomagnetic activity. Midnight Temperature Maximum in the equatorial thermosphere.

Instruments, Models, or Data Used: CCD camera Fabry-Perot interferometer TIEGCM MSIS Arequipa FPI Measurements from 1996 to 2003.

FANG, Xiaohua – xhfang at umich.edu, 734-647-3370

Institution/Degree: PhD in space physics at University of Michigan, Ann Arbor, 2005

Institution/Advisor: University of Michigan with CEDAR advisor Michael Liemohn (liemohn at umich.edu)

Research Interests: Solar and magnetospheric inputs to the Mesosphere and Lower Thermosphere-Ionosphere (MLTI) region

Instruments, Models, or Data Used: Monte Carlo random walk, two-stream model, TIMED data

GARDNER, Larry – emphyx at yahoo.com, 435-797-8231

Institution/Degree: PhD in Physics at Utah State University, 2004

Institution/Advisor: Utah State University with CEDAR advisor Robert W. Schunk (robert.schunk at usu.edu)

Research Interests: High-Latitude Ionosphere/exosphere Polar Outflow Numerical Modeling

Instruments, Models, or Data Used: MSIS, IGRF, Weimer 2k

GUO, Liyu – lguo at clemson.edu, 864-656-0487

Institution/Degree: MS in Physics at Clemson University, 2005

Institution/Advisor: Clemson University with CEDAR advisor Gerald Lehman (glehmac at clemson.edu)

Research Interests: Mesosphere dynamics in tropical area

Instruments, Models, or Data Used: Jicamarca Radar GSWM

HARRELL, Sean – 04_sharrell at stagweb.fairfield.edu, 970-491-7381

Institution/Degree: MS in Physics at Colorado State University, 2006

Institution/Advisor: Colorado State University with CEDAR advisor Joe She (joeshe at lamar.colostate.edu)

Research Interests: sodium lidar

Instruments, Models, or Data Used: sodium lidar

HARTMAN, William Andrew – dhartman at hotmail.com, 972-883-2111

Institution/Degree: PhD in physics at University of Texas at Dallas, 2005

Institution/Advisor: University of Texas Dallas with CEDAR advisor Heelis (heelis at utdallas.edu)

Research Interests: Low latitude topside ionosphere

Instruments, Models, or Data Used: DMSP, ROCSAT

HASSIOTIS, Alexander – adh180 at psu.edu, 801-863-1470

Institution/Degree: PhD in Electrical Engineering at Pennsylvania State University, 2007

Institution/Advisor: Pennsylvania State University with CEDAR advisor Dr Tim Kane (tjk7 at psu.edu)

Research Interests: gravity waves propagation and sources

Instruments, Models, or Data Used: Rayleigh lidar

HENDERSON, Sidney Benson – sidh at cc.usu.edu, 435-232-9367

Institution/Degree: PhD in Electrical and Computer Engineering at Utah State University, 2005

Institution/Advisor: Utah State University with CEDAR advisor Charles Swenson (charles.swenson at usu.edu)

Research Interests: Low Latitude Aeronomy Equatorial Anomaly and Equatorial Spread-F Communication Systems
Statistical and Adaptive Signal DSP

Instruments, Models, or Data Used: TIMED/GUVI

HERRON, Joshua Patrick – joshua.herron at usu.edu, 435-797-3350

Institution/Degree: PhD in Physics at Utah State University, 2005

Institution/Advisor: Utah State University with CEDAR advisor Vincent B. Wickwar (vincent.wickwar at usu.edu)

Research Interests: Resonance and Rayleigh-scatter lidar

Instruments, Models, or Data Used: USU's Rayleigh-scatter lidar

HIRAKI, Yasutaka – hira at pat.geophys.tohoku.ac.jp, +81-22-217-5777

Institution/Degree: PhD in Physics at Tohoku University, 2007

Institution/Advisor: Tohoku University with CEDAR advisor Hitoshi Fujiwara (fujiwara at pat.geophys.tohoku.ac.jp)

Research Interests: Lightning-induced upper atmospheric discharge

Instruments, Models, or Data Used: Numerical model simulation

HOFFMAN, Kelly – hoffm4d4 at erau.edu, 386-226-7059

Institution/Degree: BS in Engineering Physics at Embry-Riddle Aeronautical University, 2006

Institution/Advisor: Embry-Riddle Aeronautical University with CEDAR advisor Michael Hickey
(michael.hickey at erau.edu)

Research Interests: Atmospheric Gravity Waves

Instruments, Models, or Data Used: Full-wave Model

HU, Wenyi – wyhu at ee.duke.edu, 919-660-5232

Institution/Degree: PhD in Electrical Engineering at Duke University, 2005

Institution/Advisor: Duke University with CEDAR advisor Steven A. Cummer (cummer at ee.duke.edu)

Research Interests: lightning and sprite ionosphere remote sensing numerical computation

Instruments, Models, or Data Used: ELF and ULF remote sensing FDTD model for lightning-generated Electromagnetic field

HWANG, Alan – alhanie at hotmail.com, 217-332-2298

Institution/Degree: MS in Electrical Engineering at University of Illinois at Urbana-Champaign, 2005

Institution/Advisor: University of Illinois at Urbana-Champaign with CEDAR advisor Dr. Steven Franke
(s-franke at uiuc.edu)

Research Interests: Signal Processing Remote Sensing

Instruments, Models, or Data Used: MSIS Temperature Models Meteor Radar Data

IBRAHIM, Barna A. – barna at u.washington.edu, 831-840-0766

Institution/Degree: BS in Electrical Engineering at University of Washington, 2004

Institution/Advisor: University of Washington with CEDAR advisor John Sahr (jdsahr at ee.washington.edu)

Research Interests: Metamaterials, radar, RF IC design

Instruments, Models, or Data Used: NWA, LabVIEW

IIMURA, Hiroyuki – hiroyuki.iimura at odo.colorado.edu, 303-735-4238

Institution/Degree: PhD in Aerospace Engineering at Engineering and Applied Science, 2007

Institution/Advisor: University of Colorado at Boulder with CEDAR advisor Scott Palo (scott.palo at odo.colorado.edu)

Research Interests: Meteor Radar, TIDI, South Pole, MLT-Regin Wind

Instruments, Models, or Data Used: Meteor Radar

INDRIOLO, Nick – nxi11 at cwru.edu, 330-478-4770

Institution/Degree: BS in Astronomy at Case Western Reserve University, 2005

Institution/Advisor: MIT Haystack Observatory with CEDAR advisor Phil Erickson (pje at haystack.mit.edu)

Research Interests: I am interested in studying the formation and early history of the solar system via meteorites. I am also interested in intergalactic distance indicators such as Type Ia supernovae and variable stars.

Instruments, Models, or Data Used: I am working with the Millstone Hill 440 MHz Incoherent Scatter Radar and examining Meteor head echo data.

IWAHASHI, Hiroyuki – iwahashi at stelab.nagoya-u.ac.jp, 81-52-789-4307

Institution/Degree: PhD in Physics at Nagoya University, 2006

Institution/Advisor: Nagoya University with CEDAR advisor Satonori Nozawa (nozawa at stelab.nagoya-u.ac.jp)

Research Interests: polar mesosphere, atmospheric tides, MF radar

Instruments, Models, or Data Used: MF radar at Tromso and Poker-Flat

JAMES, Matthew L. – matuse at yahoo.com, 303-949-7659

Institution/Degree: BS in Physics at Colorado State University, 2006

Institution/Advisor: Colorado State University with CEDAR advisor Dave Krueger (krueger at lamar.colostate.edu)

Research Interests: Laser Optics, Environmental Studies, Sound

Instruments, Models, or Data Used: Variety of Electronic Equipment (volt meters, scopes, etc.), Labview, Worked with Phased Array Wind Profiler(NOAA)

JEE, Geonhwa – jee at cc.usu.edu, 435-797-2939

Institution/Degree: PhD in Physics at Utah State University in 2004

Institution/Advisor: Utah State University with CEDAR advisor Robert W. Schunk (schunk at cc.usu.edu)

Research Interests: Numerical ionospheric model for mid-latitude ionosphere. Data analysis for TOPEX TEC measurements.

Instruments, Models, or Data Used: TOPEX/Poseidon TEC, IRI, MSIS, HWM, IFM, etc.

JOHNSON, Eric Schoen – ejohnson at utdallas.edu, 972-883-2867

Institution/Degree: PhD in Physics at The University of Texas at Dallas, 2005

Institution/Advisor: The UT Dallas with CEDAR advisor Rod Heelis (heelis at utdallas.edu)

Research Interests: Ion-neutral Coupling, Momentum Transfer, and Joule Heating in the High-Latitude F Region

Instruments, Models, or Data Used: Ion Drift Meter (IDM), Retarding Potential Analyzer (RPA, the Wind and Temperature Spectrometer (WATS), and Omni Data

KANG, Chunmei – chunmei.kang at colorado.edu, 303-735-2487

Institution/Degree: PhD in Aerospace Engineering Sciences at Aerospace Engineering Sciences, 2007

Institution/Advisor: Colorado University at Boulder with CEDAR advisor Scott.Palo (scott.palo at colorado.edu)

Research Interests: data analysis for upper atmosphere wind, signal processing for meteor radar system

Instruments, Models, or Data Used: meteor radar system

KLENZING, Jeffrey – jeffk at utdallas.edu, 972-883-6177

Institution/Degree: PhD in Physics at University of Texas at Dallas, 2007

Institution/Advisor: University of Texas at Dallas with CEDAR advisor Dr. Greg Earle (earle at utdallas.edu)

Research Interests: Effects of Gravity Waves on Upper Atmosphere, Instrumentation

Instruments, Models, or Data Used: DE-2 data

KOHEN, Talia – tk233 at cornell.edu, 607-255-4183

Institution/Degree: BS in Electrical Engineering at Cornell University, 2007

Institution/Advisor: Cornell University with CEDAR advisor Michael C. Kelley (mikek at ece.cornell.edu)

Research Interests: Upper atmospheric research. Airglow.

Instruments, Models, or Data Used: Airglow camera.

KWAK, Young-Sil – ys-kwak at hanmail.net, +82-53-950-6360

Institution/Degree: PhD in Atmospheric Science at Kyungpook National University, 2005

Institution/Advisor: Kyungpook National University with CEDAR advisor Byung-Ho Ahn (bhahn at knu.ac.kr)

Research Interests: high-latitude lower thermospheric dynamics, thermosphere-ionosphere coupling, dependence on the IMF

Instruments, Models, or Data Used: NCAR TIE-GCM

LAU, Elias – Elias.Lau at Colorado.EDU, 303-492-4625

Institution/Degree: PhD in Electrical Engineering at University of Colorado, 2004

Institution/Advisor: University of Colorado with CEDAR advisor Susan Avery (Susan.Avery at Colorado.EDU)

Research Interests: Remote sensing of the upper atmosphere using meteor radars.

Instruments, Models, or Data Used: VHF meteor radars at Platteville, Piura, and the South Pole.

LEE, Young-Sook – yslee at yorku.ca, 416-736-2100

Institution/Degree: PhD in Physics at York University, 2006

Institution/Advisor: York University with CEDAR advisor Gordon G. Shepherd (gordon at yorku.ca)

Research Interests: Dynamics of neutral winds in the lower thermosphere – Interaction of geomagnetic storm and the atmosphere.

Instruments, Models, or Data Used: Wind data of WINDII, ERWIN and TIDI

LI, Feng – fengli at uiuc.edu, 217-265-0993

Institution/Degree: PhD in Atmospheric Sciences at University of Illinois at Urbana-Champaign, 2004

Institution/Advisor: University of Illinois at Urbana-Champaign with CEDAR advisor Gary Swenson (swenson1 at uiuc.edu)

Research Interests: middle atmosphere dynamics, gravity wave dissipation

Instruments, Models, or Data Used: all-sky airglow imager, Na wind/temperature lidar, Maui-MALT data

LI, Tao – taoli at lamar.colostate.edu, 970-491-5424

Institution/Degree: PhD in Physics at PhD, 2005

Institution/Advisor: Colorado State University with CEDAR advisor Chiao-Yao She (joeshe at lamar.colostate.edu)

Research Interests: Lidar

Instruments, Models, or Data Used: Lidar TUV, OH image data

LICHSTEIN, Gilbert – lichstei at odo.colorado.edu, 720-938-4022

Institution/Degree: PhD in Aerospace Engineering at University of Colorado, 2005

Institution/Advisor: University of Colorado with CEDAR advisor Jeffrey Forbes (forbes at odo.colorado.edu)

Research Interests: Ionospheric dynamo, planetary waves, tides

Instruments, Models, or Data Used: Spectral Dynamics Model, TIEGCM

LIN, Charles – clin at ucar.edu, 303-497-1571

Institution/Degree: PhD in Physics at Institute of Space Science, National Central University, 2005

Institution/Advisor: NCAR/HAO with CEDAR advisor Art Richmond (richmond at ucar.edu)

Research Interests: Low-Latitude Ionosphere, modelling and observations

Instruments, Models, or Data Used: NCAR TIEGCM Sheffield University Plasmasphere Ionosphere Model HF radar data Satellite in situ observation, ROCSAT and DMSP

LIN, Tengfei – ltf at bu.edu, 617-353-5611

Institution/Degree: MS in Space Physics at Boston University, 2004

Institution/Advisor: Boston University with CEDAR advisor Meers M. Oppenheim (meerso at bu.edu)

Research Interests: plasma simulation

Instruments, Models, or Data Used: Dyrud, et al., 2004 (pending JGR paper)

LIU, Ningyu – nul105 at psu.edu, 814-865-2776

Institution/Degree: PhD in Electrical Engineering at The Pennsylvania State University, 2005

Institution/Advisor: The Pennsylvania State University with CEDAR advisor Victor. P. Pasko (vpasko at psu.edu)

Research Interests: sprites, lightning, streamers, atmospheric electricity

Instruments, Models, or Data Used: streamer model, convection and diffusion model, fluid model.

LIVNEH, Dorey – dul121 at psu.edu, 814-865-0188

Institution/Degree: PhD in Electrical Engineering at Penn State, 2008

Institution/Advisor: Penn State University with CEDAR advisor John D. Mathews (jdmathews at psu.edu)

Research Interests: Meteors, atmospheric physics, signal processing, remote sensing.

Instruments, Models, or Data Used: Microbarometer, meteor radar, computer, coffee-maker

LORY, Justin David – loryj at erau.edu, 386-239-7184

Institution/Degree: MS in Space Physics at Embry-Riddle Aeronautical University, 2005

Institution/Advisor: Embry-Riddle Aeronautical University with CEDAR advisor Mike Hickey (michael.hickey at erau.edu)

Research Interests: Numerical simulation Atmospheric gravity waves Spacecraft attitude dynamics

Instruments, Models, or Data Used: Full-wave model IRI Model MSIS Model

LOUGHMILLER, Pamela J. – demi at ece.cornell.edu, 607-255-8298

Institution/Degree: PhD in Electrical & Computer Engineering at Cornell University, 2004

Institution/Advisor: Cornell University with CEDAR advisor Michael C. Kelley (mikek at ece.cornell.edu)

Research Interests: mesospheric bores, airglow, mesosphere and lower thermosphere dynamics, low frequency animal communication

Instruments, Models, or Data Used: allsky and narrow-field imagers, airglow images, MSIS, CIRA

LUNDELL, Eric – iamcire at yahoo.com, 797-3641

Institution/Degree: BS in Physics at Utah State University, 2005

Institution/Advisor: Utah State University with CEDAR advisor Vincent Wickwar (vincent.wickwar at usu.edu)

Research Interests: Upper atmospheric and ionospheric physics including LIDAR, gravity waves.

Instruments, Models, or Data Used: Rayleigh Lidar densities, IDL, MSIS90

MARTINIS, Carlos – martinis at bu.edu, 6173535258

Institution/Degree: PhD in Astronomy at Boston University, 2005

Institution/Advisor: Boston University with CEDAR advisor Michael Mendillo (mendillo at bu.edu)

Research Interests: Electrodynamics of the low latitude ionosphere; Comparative aeronomy in the solar system

Instruments, Models, or Data Used: All-Sky Imagers, FPI's, GPS, DMSP. MSIS, HWM, PIM.

McBRIDE, Ryan – rdm27 at cornell.edu, 607-255-8298

Institution/Degree: PhD in Electrical and Computer Engineering at Cornell University, 2007

Institution/Advisor: Cornell University with CEDAR advisor Dr. Wesley Swartz (wes at ece.cornell.edu)

Research Interests: Radar studies of the ionosphere, ionospheric plasma physics

Instruments, Models, or Data Used: Cornell University Portable Radar Interferometer (CUPRI)

MERKEL, Aimee – merkel at ucar.edu, 303-492-1871

Institution/Degree: Post Doc in Aerospace Engineering/Atmospheric Science at NCAR, 2004

Institution/Advisor: NCAR with CEDAR advisor Rolando Garcia (rolando.garcia at ucar.edu)

Research Interests: Summer Mesosphere Variability Polar Mesospheric Clouds

Instruments, Models, or Data Used: SNOE HRDI SABER SME MSIS WAACM

MEYER, Melissa – mgmeyer at ee.washington.edu, 206-543-8740

Institution/Degree: PhD in Electrical Engineering at University of Washington, 2006

Institution/Advisor: University of Washington with CEDAR advisor John Sahr (jdsahr at u.washington.edu)

Research Interests: ionospheric physics, particularly field-aligned irregularities and their observation with radar; magnetosphere-ionosphere coupling; radar design.

Instruments, Models, or Data Used: Manastash Ridge Radar (UW/John Sahr)

MILLA, Marco Antonio – mmilla at uiuc.edu, 217-333-4155

Institution/Degree: PhD in Electrical Engineering at University of Illinois at Urbana-Champaign, 2007

Institution/Advisor: University of Illinois at Urbana-Champaign with CEDAR advisor Erhan Kudeki (erhan at uiuc.edu)

Research Interests: Radar studies of the atmosphere and ionosphere Digital Signal Processing

Instruments, Models, or Data Used: Jicamarca Radio Observatory facilities and data Cedar Database

MOHAPATRA, Sasmita – sxm039100 at utdallas.edu, 972-883-8726

Institution/Degree: MS in Space Science at UTD, 2008

Institution/Advisor: university of texas at dallas with CEDAR advisor Dr. R.A. Heelis (heelis at utdallas.edu)

Research Interests: Penetration of zonal ion drifts from high to middle latitudes.

Instruments, Models, or Data Used: DMSP data

MOITRA, Ankur – am422 at cornell.edu, 607-255-4183

Institution/Degree: BS in Electrical Engineering at Cornell University, 2007

Institution/Advisor: Cornell University with CEDAR advisor Michael C. Kelley (mikek at ece.cornell.edu)

Research Interests: Upper atmospheric research, Airglow.

Instruments, Models, or Data Used: Airglow camera. Present projects include converting graphics to audio format.

MOLGAARD, Joshua James – molgy_23 at hotmail.com, jmolgaa at clemson.edu, 864-656-0933

Institution/Degree: MS in Physics at Clemson University, 2005

Institution/Advisor: Clemson University with CEDAR advisor Dr. Miguel F. Larsen (mlarsen at clemson.edu)

Research Interests: Atmospheric Physics, Aeronomy, Geology, Seismology

Instruments, Models, or Data Used: MSIS Fortran

MOORE, Luke – moore at bu.edu, 617-353-5611

Institution/Degree: PhD in Astronomy at Boston University, 2005

Institution/Advisor: Boston University with CEDAR advisor Michael Mendillo (mendillo at bu.edu)

Research Interests: Aeronomy; comparative planetary studies; planetary ionospheres; Saturn; computer simulation/modeling

Instruments, Models, or Data Used: MSIS, SOLAR2000, various photochemical models. SNOE, GLO, Voyager 1/2, and Pioneer data.

MORABITO, Andrew – morabito at ee.washington.edu, 206-543-8740

Institution/Degree: PhD in Electrical Engineering at University of Washington, 2007

Institution/Advisor: University of Washington with CEDAR advisor John Sahr (jdsahr at u.washington.edu)

Research Interests: Radar Signal Processing

Instruments, Models, or Data Used: Manastash Ridge Radar ionospheric targets

MOSS, Gregory David – gdm131 at psu.edu, 304-546-2279

Institution/Degree: MS in Electrical Engineering at Pennsylvania State University, 2005

Institution/Advisor: Pennsylvania State University with CEDAR advisor Dr. Victor Pasko (vpasko at psu.edu)

Research Interests: Plasma Physics, Atmospheric Physics, Monte Carlo Particle Simulations, etc.

Instruments, Models, or Data Used: ELENDF Boltzman Solver, Phelps and Pitchford Collision Cross Section Data, etc.

MOZZONI, David – cyric at geomag.gfdi.fsu.edu, 850-644-4014

Institution/Degree: PhD in Physics at Florida State University, 2005

Institution/Advisor: FSU with CEDAR advisor Richmond (richmond at ucar.edu)

Research Interests: geomagnetism

Instruments, Models, or Data Used: TIEGCM CHAMP

MUTISO, Charles K – mutisoc at sprl.db.erau.edu, 386-383-1120

Institution/Degree: BS in Engineering Physics at Embry-Riddle University, 2004

Institution/Advisor: Embry-Riddle University with CEDAR advisor Dr Azeem (azeem71d at erau.edu)

Research Interests: Instrumentation, data reduction

Instruments, Models, or Data Used: Michelson Interferometers, Filter Wheel Photometers, CCD Spectrometers

MWENE, Anthony Musumba – tonymusumba at hotmail.com, 972-883-6177

Institution/Degree: PhD in Physics at University of Texas at Dallas, 2007

Institution/Advisor: University of Texas at Dallas with CEDAR advisor Dr. Gregory Earle (earle at utdallas.edu)

Research Interests: Gravity wave propagation in Midlatitudes using DE2 data, Midlatitude spread F, Ionospheric modelling

Instruments, Models, or Data Used: Duct, RPA, Ion Drift Meter, Wind And Temperature Sensor

NADAKUDITI SRINIVASA, Sharma – ftbn at uaf.edu, 907-474-5678

Institution/Degree: MS in Electrical Engineering at University of Alaska Fairbanks, 2004

Institution/Advisor: University of Alaska Fairbanks with CEDAR advisor Richard L. Collins (rlc at gi.alaska.edu)

Research Interests: Lidar Temperature Retrieval Techniques.

Instruments, Models, or Data Used: Nd-YAG LASER, MSISE-90

NICOLLS, Michael J. – mjn25 at cornell.edu, 607-255-8298

Institution/Degree: PhD in Electrical Engineering at Cornell University, 2007

Institution/Advisor: Cornell University with CEDAR advisor Michael Kelley (mikek at ece.cornell.edu)

Research Interests: incoherent scatter, low/mid latitude ionosphere, E and F region ionospheric dynamics, ionospheric instabilities, sporadic E, intermediate layers

Instruments, Models, or Data Used: Arecibo ISR, Cornell airglow imagers, MSIS, IRI, HWM, ASPEN-TIMEGCM output, AMIE output

NIELSEN, Kim – knielsen at cc.usu.edu, 435-797-3519

Institution/Degree: PhD in Physics at Utah State University in 2006

Institution/Advisor: Utah State University with CEDAR advisor Mike Taylor (mtaylor at cc.usu.edu)

Research Interests: Aiglow, Gravity Waves, Sources of Gravity Waves, General Atmospheric Dynamics, Tropospheric Convection. Physics Education

Instruments, Models, or Data Used: All-sky imagers, imaging spectrograph, Low-light-level cameras, HF-radar.

NIKOUKAR, Romina – nikoukar at uiuc.edu, 217-333-4152

Institution/Degree: PhD in Electrical Engineering at University of Illinois at Urbana-Champaign, 2006

Institution/Advisor: University of Illinois at Urbana-Champaign with CEDAR advisor Farzad Kamalabadi (farzadk at uiuc.edu)

Research Interests: 1. Inversion of Incoherent scatter radar data to extract the altitude profiles of ionospheric parameters 2. Tomographic inversion of satellite data to extract the volume emission rates of O2 and OH.

Instruments, Models, or Data Used: 1. Arecibo incoherent scatter radar data 2. Tidi instrument on TIMED satellite

NOBUKI, Kotake – kotake at stelab.nagoya-u.ac.jp, +81-533-89-5247

Institution/Degree: PhD in Engineering at Nagoya University, 2007

Institution/Advisor: Nagoya University with CEDAR advisor Tadahiko Ogawa (ogawa at stelab.nagoya-u.ac.jp)

Research Interests: medium-scale traveling ionospheric disturbances, atmospheric gravity wave

Instruments, Models, or Data Used: GPS, MU radar

OWENS, Andrew Dean – owensa at clemson.edu, 757-824-1809

Institution/Degree: BS in Mechanical Engineering at Clemson University, 2005

Institution/Advisor: Clemson University with CEDAR advisor Miguel Larsen (MLARSEN at clemson.edu)

Research Interests: Sounding Rocket Payload and Instrumentation Development. AeroSpace systems in general. Spacecraft Reentry Analysis.

Instruments, Models, or Data Used: I helped w/ development of a Chaff particle deployment system for measuring mesospheric wind shear. I have supported many sounding rocket experiments including SPIRIT II, and JOULE (Poker Flat, Alaska).

PAN, Weilin – weilin.pan at sri.com, 650-859-2540

Institution/Degree: Post Doc in Electrical Engineering at University of Illinois at Urbana-Champaign, 2004

Institution/Advisor: SRI International with CEDAR advisor Jeff Thayer (thayer at sri.com)

Research Interests: Lidar research on mesospheric clouds, temperatures, and sodium layer

Instruments, Models, or Data Used: Sondrestrom ARCLITE lidar system

PATINO, Erika Alexandra – (erialpa at yahoo.com), 316-5000

Institution/Degree: MS in Physics at Universidad Nacional de Colombia Sede Manizales, 2005

Institution/Advisor: Universidad Nacional de Colombia Sede Manizales with CEDAR advisor Cesar Valladares (valladar at mail1.bc.edu)

Research Interests: Equatorial ionospheric physics

Instruments, Models, or Data Used: GPS Leica 1000 and RS500 GPS Motorola

REMICK, Karen J. – ftkjr at uaf.edu, 907-474-7580

Institution/Degree: PhD in Space Physics at University of Alaska - Fairbanks, 2004

Institution/Advisor: Geophysical Institute with CEDAR advisor Roger Smith (bblw at gi.alaska.edu)

Research Interests: MI Coupling and ion outflow

Instruments, Models, or Data Used: Data: ISR data from Svalbard, Sondrestrom, and Tromso. SW/IMF data from OMNI database Models: MSIS and IRI

RODDY, Patrick – roddy at utdallas.edu, 469-569-7175

Institution/Degree: PhD in Physics at UTD, 2006

Institution/Advisor: UTD with CEDAR advisor Greg Earle (earle at utdallas.edu)

Research Interests: Ion-neutral coupling in the lower thermosphere, Sporadic-E, and Intermediate layers.

Instruments, Models, or Data Used: Models: Layer Evolution And Dynamics model (LEAD)

RODRIGUES, Fabiano S. – frs5 at cornell.edu, 607-280-7851

Institution/Degree: PhD in Electrical and Computer Engineering at Cornell University, 2007

Institution/Advisor: Cornell University with CEDAR advisor David L Hysell (daveh at geology.geo.cornell.edu)

Research Interests: IS radar data analysis, optimization methods, multi-instrumented observations of f-region irregularities

Instruments, Models, or Data Used: Jicamarca IS radar, GPS receivers for TEC/Scintillation measurements

SANTOS, Pedrina Terra – pedrina at dae.inpe.br, 00551239457182

Institution/Degree: PhD in Space Geophysics at INPE, 2004

Institution/Advisor: Instituto Nacional de Pesquisas Espaciais-INPE with CEDAR advisor JosÃ© Humberto Andrade Sobral (sobral at dae.inpe.br)

Research Interests: Zonal drifts, plasma bubbles, E-region

Instruments, Models, or Data Used: Digisonde and photometer data; SUPIM model

SEAL, Ryan L. – rlseal at ualr.edu, 501-569-8222

Institution/Degree: PhD in Applied Science at UALR, 2007

Institution/Advisor: UALR with CEDAR advisor Dr. Julio Urbina (jvurbina at ualr.edu)

Research Interests: Instrumentation, signal processing, data acquisition, software.

Instruments, Models, or Data Used: Urbana-Champaign Radar, digital receivers.

SEKER, Ilgin – ius102 at psu.edu, 814-865-0188

Institution/Degree: MS in Electrical Engineering at Penn State University, 2005

Institution/Advisor: Penn State University with CEDAR advisor John D. Mathews (JDMathews at psu.edu)

Research Interests: Atmospheric Electrodynamics, Ionosphere, All-Sky Imaging

Instruments, Models, or Data Used: Penn State All-Sky Imager (Arecibo) Images and movies

SHARMA, Niranjan Raj – sharma at colorado.edu, 303-735-3154

Institution/Degree: PhD in Aerospace Engineering at University of Colorado, 2004

Institution/Advisor: University of Colorado at Boulder with CEDAR advisor Dr. Jeffrey Forbes (forbes at colorado.edu)

Research Interests: Atmospheric dynamics of Earth and Mars

Instruments, Models, or Data Used: Nonlinear Spectral Dynamics Model

SHARMAN, Daria – obi at mail.utexas.edu, 512-789-5169

Institution/Degree: PhD in Aerospace Engineering at UT Austin, 2006

Institution/Advisor: University of Texas at Austin with CEDAR advisor Gary Bust (gbust at arlut.utexas.edu)

Research Interests: Ionospheric Physics

Instruments, Models, or Data Used: Mass Specs

SHUME, Esayas B. – ebs27 at cornell.edu, 607-255-8481

Institution/Degree: PhD in Space Geophysics at Cornell University, 2005

Institution/Advisor: Cornell University with CEDAR advisor Dave Hysell (daveh at geology.cornell.edu)

Research Interests: Equatorial ionosphere plasma dynamics: E- and F-region coupling; prereversal enhancement; F-region bottomside shear.

Instruments, Models, or Data Used: Bistatic radar data from Jicamarca; 3-D ionospheric model.

SINGLETON, Tamara – tsingl at math.tulane.edu, 504-865-5727

Institution/Degree: PhD in Applied Mathematics at Tulane University, 2007

Institution/Advisor: Tulane University/National Center for Atmospheric Research with CEDAR advisor Maura Hagan (hagan at hao.ucar.edu)

Research Interests: Atmospheric Sciences Scientific Computing Applied Mathematics/Partial Differential Equations

Instruments, Models, or Data Used: Thermosphere-Ionosphere-Mesosphere-Electrodynamics General Circulation Model

SNIVELY, Jonathan – jbs231 at psu.edu, 814-404-2048

Institution/Degree: PhD in Electrical Engineering at Penn State University, 2006

Institution/Advisor: Penn State University with CEDAR advisor Victor P. Pasko (vpasko at psu.edu)

Research Interests: Tropospheric-generated gravity waves in the mesosphere and lower thermosphere.

Instruments, Models, or Data Used: High-resolution numerical simulation; MSIS, HWM.

SU, Ligu – ftls1 at uaf.edu, 907-474-5714

Institution/Degree: PhD in Electrical Engineering at University of Alaska, 2006

Institution/Advisor: Univ of Alaska Fairbanks with CEDAR advisor Richard L. Collins (rlc at gi.alaska.edu)

Research Interests: Lidar Remote Sensing

Instruments, Models, or Data Used: IDL, Orcad/Pspice

SUTTON, Eric K – eric.sutton at colorado.edu, 303-492-7061

Institution/Degree: PhD in Aerospace Engineering at University of Colorado, 2006

Institution/Advisor: University of Colorado with CEDAR advisor Dr. Jeffery M. Forbes (Forbes at colorado.edu)

Research Interests: Upper Atmospheric Dynamics Astrodynamics

Instruments, Models, or Data Used: CHAMP Satellite Data SETA Satellite Data

SUZUKI, Shin – shin at stelab.nagoya-u.ac.jp, +81-533-89-5247

Institution/Degree: PhD in Physics at Nagoya University, 2007

Institution/Advisor: Nagoya University with CEDAR advisor Kazuo Shiokawa (shiokawa at stelab.nagoya-u.ac.jp)

Research Interests: atmospheric gravity wave dynamics of atmosphere at mesosphere

Instruments, Models, or Data Used: airglow imager meteor radar CIRA-86 URAP

SVOBODA, Aaron – aaron.svoboda at colorado.edu, 303-735-3154

Institution/Degree: PhD Physics/Aerospace Engineering, University of Colorado, 2009

Institution/Advisor: University of Colorado, Jeff Forbes (forbes at colorado.edu)

Research Interests: Numerical modelling of atmospheric tides

Instruments, Models, or Data Used: Kyushu general circulation model, global scale wave model, HRDI, WINDII, MLS

TANG, Jing – jingtang at uiuc.edu, 217-333-2931

Institution/Degree: PhD in EE at UIUC, 2004

Institution/Advisor: University of Illinois at Urbana-Champaign with CEDAR advisor Gary Swenson (swenson1 at uiuc.edu)

Research Interests: Optical remote sensing, gravity waves in MLT

Instruments, Models, or Data Used: Imager, photometer, spectrometer, radar, lidar

TAORI, Alok K. – alok at cc.usu.edu, 435-797-8128

Institution/Degree: Post Doc in Physics at Utah State University, 2004

Institution/Advisor: Utah State University with CEDAR advisor M. J. Taylor (mtaylor at cc.usu.edu)

Research Interests: Airglow emissions, MLT dynamics, Gravity and Tidal Wave processes, Optical instruments.

Instruments, Models, or Data Used: GSWM

TURNER, Drew L. – turned6b at erau.edu, 607-255-3735

Institution/Degree: BS in Engineering Physics at Embry-Riddle Aeronautical University, 2005

Institution/Advisor: Cornell University with CEDAR advisor Dr. Nestor Aponte (naponte at naic.edu)

Research Interests: Upper atmospheric science/space physics, TEC (total electron count)

Instruments, Models, or Data Used: Michelson Interferometer, CCD interferometer, Fabry-Perot interferometer, various TEC material

VEMULA, Sreenivas – ftsv at uaf.edu, 907-474-5738

Institution/Degree: MS in Electrical Engineering at University of Alaska, Fairbanks, 2004

Institution/Advisor: University of Alaska, Fairbanks with CEDAR advisor Thorsen, Denise (ffdt at uaf.edu)

Research Interests: Remote Sensing

Instruments, Models, or Data Used: MF Radar data located at Platteville, Colorado

WALDROP, Lara – lara at sky.csl.uiuc.edu, 217-244-5129

Institution/Degree: Post Doc in Astronomy at Boston University, 2004

Institution/Advisor: UIUC with CEDAR advisor Erhan Kudeki (erhan at uiuc.edu)

Research Interests: thermospheric photochemistry passive optical remote sensing topside ionosphere ion-neutral coupling

Instruments, Models, or Data Used: Arecibo incoherent scatter radar (topside mode) Fabry-Perot interferometers, photometers, spectrometer (also at Arecibo) MSIS, IRI models GLOW photoelectron model (S. Solomon) METAHE transport model (J. Bishop)

WANG, Lan – lwang28 at uwo.ca, 519-661-2111

Institution/Degree: PhD in Electrical Engineering at University of Western Ontario, 2007

Institution/Advisor: University of Western Ontario with CEDAR advisor John W. MacDougall (jmacdoug at uwo.ca)

Research Interests: Ionospheric irregularities, tomography, HF radar, ionosonde, image processing

Instruments, Models, or Data Used: CADI ionosonde, IRI2001 models, SuperDARN data, ISIS data

WANG, Xiaoni – shannon_ucf at hotmail.com, 407-823-0016

Institution/Degree: PhD in Electrical Engineering at UCF, 2006

Institution/Advisor: University of Central Florida with CEDAR advisor Richard Eastes (reastes at mail.ucf.edu)

Research Interests: tec data analysis

Instruments, Models, or Data Used: tec, solar flux, ionosonde

WEN, Chun-Hsien – cxw381 at psu.edu, 814-865-7226

Institution/Degree: PhD in Electrical Engineering at The Pennsylvania State University, 2005

Institution/Advisor: The Pennsylvania State University with CEDAR advisor John D. Mathews (jdmathews at psu.edu)

Research Interests: Statistical Signal Processing

Instruments, Models, or Data Used: AO meteor observation data

WILLIAMS, Sharene – smw49 at cornell.edu, 607-255-4183

Institution/Degree: BS in Electrical Engineering at Cornell University, 2007

Institution/Advisor: Cornell University with CEDAR advisor Michael C. Kelley (mikek at ece.cornell.edu)

Research Interests: Upper atmospheric research. Airglow.

Instruments, Models, or Data Used: Airglow camera and data.

WITHERS, Paul – withers at bu.edu, 617-353-1531

Institution/Degree: Post Doc in Planetary Science at University of Arizona, 2004

Institution/Advisor: Boston University with CEDAR advisor Michael Mendillo (mendillo at bu.edu)

Research Interests: planetary atmospheres, accelerometer data, martian thermosphere and ionosphere

Instruments, Models, or Data Used: Mars Global Surveyor accelerometer, Mars Odyssey accelerometer, Mars Global Surveyor Radio Science, Spirit/Opportunity entry accelerometer

WOODCOCK, Kenneth R. S. – kenneth.woodcock at uea.ac.uk, (44) 1603 592841

Institution/Degree: PhD in Atmospheric Chemistry at University of East Anglia, 2005

Institution/Advisor: University of East Anglia with CEDAR advisor Prof. John Plane (J.Plane at uea.ac.uk)

Research Interests: Understanding the ionized iron chemistry that produces sporadic enhancements in the mesospheric iron layer

Instruments, Models, or Data Used: Fast flow tube, mass spectrometer, multi-channel scalar, resonance fluorescence, gated integrator/boxcar averager, Arecibo lidar data, Fe layer model.

WOULAS, Jason John – ar10eagleshot at yahoo.com, 386-226-6386

Institution/Degree: BS in Aerospace Engineering at Embry-Riddle Aeronautical University, 2006

Institution/Advisor: Embry-Riddle Aeronautical University with CEDAR advisor Dr. Irfan Azeem (azeem71d at erau.edu)

Research Interests: Satellite Data Analysis

Instruments, Models, or Data Used: TIMED DATA Michelson interferometer

WYNN, Troy – troywynn at cc.usu.edu, 435-764-2323

Institution/Degree: BS in Physics at USU, 2004

Institution/Advisor: USU with CEDAR advisor Vincent Wickwar (vincent.wickwar at usu.edu)

Research Interests: Lidar, climatology, temperature trends

Instruments, Models, or Data Used: msis90, Lidar

YANG, Heng – hxy149 at psu.edu, 814-865-2776

Institution/Degree: PhD in Electrical Engineering at Penn State University, 2006

Institution/Advisor: Penn State University with CEDAR advisor Victor Pasko (vpasko at psu.edu)

Research Interests: Schumann resonance, ELF, VLF, Earth-ionosphere cavity

Instruments, Models, or Data Used: FDTD, International Reference Ionosphere

YANG, Yang – yangy at muohio.edu, 513-550-0684

Institution/Degree: BS in Computer Engineering at Miami University, 2006

Institution/Advisor: Arecibo Observatory National Astronomy & Ionosphere Center with CEDAR advisor Jonathan Friedman (jonathan at naic.edu)

Research Interests: Artificial Intelligence particularly in a multi agent environment

Instruments, Models, or Data Used: MatLab Gas Chromatography Infra-red Spectrometer

YU, Yonghui – yu_yonghui at yahoo.com, 386-226-6709

Institution/Degree: PhD in Space Physics at Embry-Riddle/University of Central Florida, 2005

Institution/Advisor: Embry-Riddle Aeronautical University with CEDAR advisor Mike Hickey (michael.hickey at erau.edu)

Research Interests: Gravity Waves Numerical Modeling

Instruments, Models, or Data Used: full-wave model msis model

YUAN, Tao – titus at lamar.colostate.edu, 970-491-5880

Institution/Degree: PhD in Physics at Colorado State University, 2004

Institution/Advisor: Colorado State University with CEDAR advisor She, Chao-Yao (joeshe at lamar.colostate.edu)

Research Interests: lidar

Instruments, Models, or Data Used: CSU Na-Lidar

ZALUCHA, Angela – zalucha at uiuc.edu

Institution/Degree: BS in Physics at University of Illinois at Urbana-Champaign, 2004

Institution/Advisor: MIT Haystack Observatory with CEDAR advisor John Holt (jmh at haystack.mit.edu)

Research Interests: E and F region ionospheric modeling using ISR data; planetary atmospheres.

Instruments, Models, or Data Used: Saint Santin ISR data, Millstone Hill Empirical Model.

ZHAN, Tianyu – tzhan at clemson.edu, 864-656-0933

Institution/Degree: MS in Physics at Clemson University, 2004

Institution/Advisor: Clemson University with CEDAR advisor Miguel F. Larsen (mlarsen at clemson.edu)

Research Interests: neutral dynamics of ionosphere

Instruments, Models, or Data Used: sounding rocket

ZHANG, Xiaoli – zhangx at rtt.colorado.edu, 303-492-2746

Institution/Degree: PhD in Aerospace Engineering at University of Colorado at Boulder, 2006

Institution/Advisor: University of Colorado at Boulder with CEDAR advisor Dr. Jeffrey M. Forbes (forbes at colorado.edu)

Research Interests: Theoretical dynamics and electrodynamics of Earth's mesosphere and lower thermosphere and ionosphere, including tides, planetary waves and gravity waves; wave/wave and wave/mean-flow interactions, numerical simulation of the above phenomena.

Instruments, Models, or Data Used: TIMED SABER data, UARS MLS, TIEGCM MSISE90, KyushuGCM

ZHOU, Qina – qxz107 at psu.edu, 814-865-0188

Institution/Degree: PhD in Electrical Engineering at Penn State Univ., University Park, 2004

Institution/Advisor: Penn State Univ. with CEDAR advisor John Mathews (jdmathews at psu.edu)

Research Interests: Numerical simulation of F region instabilities

Instruments, Models, or Data Used: Perkins' equations

Zhou, Xiaoqian – xiaoqiz at clemson.edu, 864-656-5326

Institution/Degree: PhD in Physics at Clemson University, 2007

Institution/Advisor: Clemson University with CEDAR advisor Miguel Larsen (mlarsen at clemson.edu)

Research Interests: ionospheric physics and neutral atmosphere dynamics

Instruments, Models, or Data Used: sounding rocket