22 June 2006 Thursday 4-7 PM CEDAR Poster Session #2

(28 of 60 posters in competition on MLT, Coupling, Sprites, Meteors, Planetary Atmospheres)

ITMA Instruments or Techniques for Middle Atmospheric Observation (4 of 11 posters in competition)
COUP Coupling of the Upper Atmosphere with Lower Altitudes (5 of 10 posters in competition)
MLTS Mesosphere or Lower Thermosphere General Studies (3 of 8 posters in competition)
MLTG Mesosphere and Lower Thermosphere Gravity Waves (5 of 11 posters in competition)
MLTT Mesosphere and Lower Thermosphere Other Tidal or Planetary Waves (2 of 5 posters in competition)
METR Meteor Science other than Wind Observations (5 of 7 posters in competition)
SPRT Sprites (3 of 6 posters in competition)
EPAT Extraterrestrial Planetary Atmospheres (1 of 2 posters in competition)

Instruments or Techniques for Middle Atmospheric Observation

- **ITMA-01**, Zhaoai Yan, On middle-atmospheric Doppler-Cabanne lidar wind measurements, Student NOT in poster competition, Masters
- **ITMA-02**, Chunmei Kang, Planar Array Design in Meteor Radar Systems, Student IN poster competition, PhD
- **ITMA-03**, Jia Yue, An all-solid-state transportable narrowband sodium lidar for mesopause region temperature and horizontal wind measurements, Student IN poster competition, PhD
- **ITMA-04**, Meng-Yuan Chen, The Study of Beam Broadening Effect on Doppler Spectrum, Student NOT in poster competition, PhD
- **ITMA-05**, Sean Harrell, The Sodium Faraday Filter and Daytime Lidar Observations: A History and Current Developments, Student IN poster competition, PhD
- **ITMA-06**, Chris Martin, High-resolution remote sensing of mesospheric carbon monoxide, Non-student
- **ITMA-07**, D. Scott Anderson, Tomographic Estimations of Vertical Airglow Profiles, Student NOT in poster competition, PhD
- **ITMA-08**, Steven M Smith, Ground-based mesospheric OH temperature comparisons with simultaneous TIMED SABER temperatures over Millstone Hill, Non-student
- **ITMA-09**, Romina Nikoukar, On the variability of mesospheric OH layer volume emission profiles derived from SABER limb measurements, Student NOT in poster competition, PhD
- **ITMA-10**, Richard Todd Parris, A new receiving system for SuperDARN meteor echo detection and analysis, Student IN poster competition, PhD
- **ITMA-11**, Michael John Brown, Magnetic Fields Measurements of the Mesosphere Using the Zeeman Splittling of O-18O, Student NOT in poster competition, Undergraduate

Coupling of the Upper Atmosphere with Lower Altitudes

- **COUP-01**, William Robert Johnston, Relation of the plasmapause to the outer radiation belt from DMSP, IMAGE, and SAMPEX observations, Student IN poster competition, PhD
- **COUP-02**, Matthew D Zettergren, The Aeronomy of Auroral Ion Up?ow, Student IN poster competition, PhD
• **COUP-03**, Zhenhua Li, Gravity Waves in the Lower Stratosphere at South Pole, Non-student, PhD
• **COUP-04**, ZHENGGANG CHENG, Broadband VLF measurement of D region ionospheric perturbations caused by lightning electromagnetic pulses, Student IN poster competition, PhD
• **COUP-05**, Jirmy Riousset, Electrical structure of thunderclouds leading to formation of blue jets and gigantic jets, Student IN poster competition, Masters
• **COUP-06**, Brentha Thurairajah, Observational study of the Arctic middle atmosphere using lidar, satellite, and meteorological measurements and analyses, Student NOT in poster competition, PhD, presented by Richard Collins
• **COUP-07**, Charles Mutiso, Coupling in the mesosphere and lower thermosphere through tidal features observed in OH (6, 2) and O2 Atm (0, 1) nightglow emissions, Student IN poster competition, Masters
• **COUP-08**, Young-Sil Kwak, An Analysis of the Momentum Forcing in the High-latitude Lower Thermosphere, Non-student
• **COUP-09**, Mariangel Fedrizzi, Ionosphere-Thermosphere Response to the April 2002 Magnetic Storm, Non-student, PhD
• **COUP-10**, Jong-Kyun Chung, Observation of low latitude red aurora on 29 October, 2003, Non-student

Mesosphere or Lower Thermosphere General Studies

• **MLTS-01**, Jong-Kyun Chung, The nightglow measurements of the O2(0-0) atmospheric band by TIMED Doppler Interferometer (TIDI), Non-student
• **MLTS-02**, Yonghui Yu, The Numerical Modeling of Gravity Wave Packet Ducted due to the Thermal Structure in the Upper and Lower Atmosphere, Student NOT in poster competition, PhD
• **MLTS-03**, Shikha Raizada, A study of negative ions in the D-region using ISR at Arecibo, Non-student, PhD
• **MLTS-04**, Tianyu Zhan, Mesosphere and lower thermosphere wind and turbulence observations over Puerto Rico during the Coqui 2 campaign, Student NOT in poster competition, PhD
• **MLTS-05**, Hema Karnam Surendra Babu, Seasonal Investigations of Variance in Mesospheric Wave Structures at Low Latitudes., Student IN poster competition, PhD
• **MLTS-06**, Ruth S. Lieberman, A Global perspective of mesospheric inversion layers, Non-student
• **MLTS-07**, Fabio Vargas, Modeling study of airglow response to gravity wave perturbations in multiple layers in the mesopause region, Student IN poster competition, Masters
• **MLTS-08**, Deepak Babu Simkhada, Investigating the horizontal characteristics of the short period gravity waves over Bear Lake Observatory, Utah, Student IN poster competition, PhD

Mesosphere and Lower Thermosphere Gravity Waves

• **MLTG-01**, Shin Suzuki, Gravity wave momentum flux estimated from airglow images in the equatorial mesopause region, Student IN poster competition, PhD
• **MLTG-02**, Alexander Hassiotis, Regional case study on the viability of short-range forecasting of convectively-generated gravity waves in the tropics, Student IN poster competition, PhD
• **MLTG-03**, Phillip Edward Acott, On sodium measurements of gravity-wave momentum fluxes and assessment of gravity-wave/tidal interactions, Student IN poster competition, PhD

• **MLTG-04**, Qihou Zhou, Incoherent Scatter Radar and All-Sky Imager Observation of Mesospheric Gravity Waves at Arecibo, Non-student

• **MLTG-05**, Jonathan Snively, Photochemical-dynamical modeling of multi-layer airglow modulation by mesospheric gravity waves, Student NOT in poster competition, PhD

• **MLTG-06**, Chihoko Yamashita, Lidar study of gravity waves and their influence on polar mesospheric clouds in Antarctica, Student IN poster competition, Masters

• **MLTG-07**, Kim Nielsen, Propagation and Ducting of Short-Period Gravity Waves over Antarctica, Student IN poster competition, PhD

• **MLTG-08**, Mitsumu K. Ejiri, Short-period mesospheric gravity wave propagation and momentum flux at low-latitudes using simultaneous Na lidar and temperature mapper measurements, Non-student

• **MLTG-09**, Pierre-Dominique Pautet, Investigating mesospheric gravity waves and their potential role in seeding thermospheric depletions over Brazil, Non-student

• **MLTG-10**, Diego Janches, Gravity Waves and Momentum Fluxes in the MLT Using 430 MHz Dual-Beam Measurements at Arecibo, Non-student

• **MLTG-11**, Bob Stockwell, Observations of Wave Breaking and Mean Flow Acceleration, Non-student

**Mesosphere and Lower Thermosphere Other Tidal or Planetary Waves**

• **MLTT-01**, Bob Stockwell, Joint Time-Frequency Representations of Large Geophysical Datasets, Non-student

• **MLTT-02**, Takuo Tsuda, Study of an ion-drag contribution to the lower thermospheric wind in the summer polar cap using the ESR data, Student IN poster competition, PhD

• **MLTT-03**, Loren Chang, Structure of the Migrating Diurnal Tide in the Whole Atmosphere Community Climate Model, Student IN poster competition, PhD

• **MLTT-04**, Hiroyuki Iimura, An Intercomparison of Atmospheric Tidal Oscillations in the Horizontal Wind Field Observed over Antarctica, Non-student, PhD

• **MLTT-05**, Young-In Won, Observations of Upper Mesospheric and Lower Thermospheric Temperatures and Winds using Ground-Based Airglow Measurements in the Low and High-Latitude, Non-student

**Meteor Science other than Wind Observations**

• **METR-01**, Amal Chandran, Modeling the Meteoric mass deposition in the Upper Atmosphere, Student IN poster competition, PhD

• **METR-02**, Freddy Ronald Galindo, Processing algorithms for meteor-head characterization over Jicamarca, Student NOT in poster competition, Undergraduate

• **METR-03**, Stanley Briczinski, A Comparison of Automated-Search Meteor Results From Radar Observations At Two Locations, Student IN poster competition, PhD

• **METR-04**, Santiago de la Peña, Analysis of the Leonid Meteor Shower using a VHF interferometric Meteor Radar, Student IN poster competition, PhD
- **METR-05**, Vijay Subbaraman Venkatesh, Antenna pattern measurement using radio stars, Student IN poster competition, Masters
- **METR-06**, Elizabeth Bass, High range-resolution meteor observations from the Jicamarca Radio Observatory, Student IN poster competition, PhD
- **METR-07**, Chao-Tuan Cheng, Observations of Inertia-gravity wave from long-lasting meteor trail echo with hodograph analysis, Student NOT in poster competition, PhD

**Sprites**

- **SPRT-01**, Takeshi Kammae, Sprite spectra at high time resolution., Student IN poster competition, PhD
- **SPRT-02**, Tai-Yin Huang, On the OH Nightglow Emission in the Occurrence of Sprites, Non-student
- **SPRT-03**, Jingbo Li, Lightning Sprite Relationship with High Time Resolution Analysis, Student IN poster competition, PhD
- **SPRT-04**, Ningyu Liu, Modeling Studies of Initiation and Propagation of Sprite Streamers, Non-student, PhD
- **SPRT-05**, Matt Bailey, Infrared Imaging of Transient Luminous Events (1 - 1.5 micron) Over the Mid-Western US and Comparison With Their Visible Wavelength Signatures, Student NOT in poster competition, PhD, presented by Michael Taylor
- **SPRT-06**, Robert Andrew Marshall, Evidence for direct cloud-to-ionosphere electrical connection through sprite and jet processes, Student IN poster competition, PhD

**Extraterrestrial Planetary Atmospheres**

- **EPAT-01**, Luke Moore, Saturn's Ionosphere: Cassini Radio Occultation Measurements and Model Comparisons, Student IN poster competition, PhD
- **EPAT-02**, Ling Wang, Martian Atmosphere Density Structure and Gravity Wave Variance from Mars Odyssey and MGS Accelerometer Data , Non-student, PhD