

**Thursday, 26 June 2008**

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15:15-17:15 **Poster Session III**

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**Session 8P: Middle and Upper Atmosphere Physics and Chemistry - Poster Presentations**

**Co-Chairs: Xinzhao Chu, Philippe Keckhut, Chikao Nagasawa**

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- S08P-01** Monitoring ozone hole dilution process in Río Gallegos, Argentina using DIAL measurements --- *E. A. Wolfram, S. Jacobo, R. D'Elia, S. Godin-Beekmann, A. Pazmiño, H. Nakane, E. Quel*
- S08P-02** Long term variations of stratospheric ozone concentration over Tsukuba, Japan observed by DIAL and comparison with those of SAGE II --- *B. Tatarov, H. Nakane, C. B. Park, N. Sugimoto, I. Matsui*
- S08P-03** Advancements in Faraday filter design and a novel, Faraday filter-based spectrometer for determining [O]/[O<sub>2</sub>] --- *S. D. Harrell, C. Y. She, T. Yuan, D. A. Krueger, S. C. Reising*
- S08P-04** MRI: mobile Fe-resonance/Rayleigh/Mie Doppler lidar principle, design, and analysis --- *X. Chu, W. Huang, J. S. Friedman, J. P. Thayer*
- S08P-05** CRRL/CTC: Na double-edge magneto-optic filter (Na-DEMOf) for wind and temperature profiling in lower atmosphere --- *W. Huang, X. Chu, B. P. Williams, J. Wiig*
- S08P-06** CRRL/CTC: Doppler-free saturation-absorption and polarization spectroscopy for resonance fluorescence Doppler lidars --- *X. Chu, W. Huang, J. S. Friedman, A. T. Brown*
- S08P-07** Real time wind bias monitor for narrowband Na lidar --- *T. Yuan, J. Yue, C.-Y. She, S. Harrell, P. Acott, M. A. White, J. P. Sherman, D. A. Krueger, S. Reising*
- S08P-08** Monthly-mean tidal perturbations of Na density and vertical wind based on full diurnal cycle Na lidar observation --- *T. Yuan, T. D. Kawahara, C.-Y. She, D. A. Krueger, S. Reising*
- S08P-09** Statistics of vertical heat flux measurements by Sodium Doppler wind-temperature lidars --- *R. L. Collins, L. Su, D. A. Krueger, C.-Y. She*
- S08P-10** A middle atmosphere lidar for multi-parameter measurements at a remote site -- *J. Fiedler, G. Baumgarten, G. von Cossart*
- S08P-11** Simultaneous observations of sporadic Sodium layers, field aligned irregularities and neutral winds in the upper mesosphere and lower thermosphere region --- *S. Sridharan, A. K. Patra, T. K. Pant, Y. B. Kumar, K. Raghunath, S. Gurubaran*

- S08P-12** GLEME: Global lidar exploration of the mesosphere --- *E. R. Talaat, T. E. Sarris, A. Papayannis, E. Armandillo, X. Chu, M. Daly, P. Dietrich, V. Antakis*
- S08P-13** Faraday Filter: A Comparison Between the Hot and Cold Design --- *J. S. Friedman, I. Gonzalez, W. Huang*
- S08P-14** A dual-wavelength high altitude atmosphere lidar with full diurnal coverage in the Sodium fluorescence channel --- *S. Gong, X. Cheng, F. Li, J. Wang*
- S08P-15** Stratospheric lidar investigations in the polar zone of the Eastern Siberia --- *G. Matvienko, V. Marichev, S. Nikolashkin*
- S08P-16** Mesosphere and lower-thermosphere (MLT) observation by Sodium temperature lidar near Shigaraki in Japan (34.9N, 136.1E) --- *M. K. Ejiri, T. Nakamura, T. D. Kawahara, K. Shiokawa, M. Tsutsumi*
- S08P-17** Intercomparison of lidar, radiosonde and COSMIC temperature profiles over a tropical station --- *K. Raghunath, M. V. Ratnam, S. Sridharan, A. Jayarama*
- S08P-18** High Resolution Potassium Meteor Trail Observations at Arecibo: Preliminary Results --- *J. T. Fentzke, J. S. Friedman, D. Janches*
- S08P-19** Development of a Ca/Ca+ Resonance Lidar at Arecibo to Study the Influence of Micrometeor Flux on the Mesosphere and Lower Thermospheric Regions --- *S. Raizada, C. A. Tepley, D. Janches*
- S08P-20** A high power Sodium temperature lidar based on injection seeded Nd-pumped Nd:YAG lasers --- *T. D. Kawahara, S. Nozawa, R. Fujii, N. Saito, S. Wada, K. Akagawa, Y. Saito, F. Kobayashi, A. Nomura, J. Yue, C.-Y. She*
- S08P-21** Metal atomic layer observations in the meopause region over equator --- *Y. Shibata, C. Nagasawa, M. Abo*
- S08P-22** Stratospheric background aerosol over Siberian lidar station --- *V. V. Zuev, O. E. Bazhenov, V. D. Burlakov, S. I. Dolgii, A. V. Nevzorov*
- S08P-23** Measurements of stratospheric aerosols in Río Gallegos (51° 55'S, 69° 14'W), Argentina - methodology and first results. --- *S. Jacobo, E. Wolfram, R. D'Elia, B. Tatarov, H. Nakane, E. Quel*

**Thursday, 26 June 2008**

15:15-17:15 **Poster Session III**

**Session 9P: Combining Lidar with Other Techniques and Unique Lidar Applications - Poster Presentations**

**Co-Chairs: James Churnside, Joseph Shaw**

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- S09P-01** Value-Added CALIPSO Ocean, Land and Meteorology Product --- *Y. Hu, M. Vaughan, C. Trepte, D. Winker, J. Pelon, C. Weimer, M. Behrenfeld, C. McClain, S. Young, M. Cisewski, A. Omar, C. Hostetler, D. Flittner, K. Powell, J. Huang, Z. Liu, B. Hunt, R. Kuehn, S. Rodier, K. Lee*
- S09P-02** University of Wisconsin High Spectral Resolution Lidar Processing and Collaborative Data Retrieval Website --- *J. P. García, E. W. Eloranta*
- S09P-03** Wave cloud properties observed from Wyoming cloud lidar and RADAR during the ICE\_L field campaign --- *M. Deng, Z. Wang, G. Vali, S. Haimov, J. French*
- S09P-04** Combined Lidar-Radar Study of Tropical Cirrus Clouds --- *L. Komguem, J. Whiteway, R. T. Austin*
- S09P-05** Combination of lidar data with JMA radar data over Japan --- *N. Takeuchi, N. Manago, G. Bagtasa, H. Kuze, S. Naito, A. Sone, H. Kan*
- S09P-06** Aerosol optical properties based on measurements of lidar and sunphotometer in Manila, Philippines --- *M. C. D. Galvez, E. P. Macalalad, H. W. Chua, E. A. Vallar*
- S09P-07** Backscatter nephelometer to calibrate scanning lidar --- *C. Wold, V. Kovalev, W. M. Hao*
- S09P-08** Column Integrated Lidar Ratio and Particle Depolarization of Tropospheric Aerosol by Combined Lidar and Sun photometer Measurements at Taipei, Taiwan --- *W.-N. Chen, C. C. K. Chou, Y. W. Chen, P. H. Lin, J. P. Chen, S. Y. Chang*
- S09P-09** Evaluation of NASA/LARC airborne high spectral resolution lidar aerosol extinction measurements --- *R. Rogers, J. Hair, C. Hostetler, R. Ferrare, A. Cook, D. Harper, M. Obland, S. Burton, A. Clarke, Y. Shinozuka, C. McNaughton, J. Redemann, P. Russell, J. Livingston*
- S09P-10** Intercomparison of aerosol optical properties observed by lidar, sun/sky photometers and surface in situ measurements during Asian dust event in Tokyo, Japan --- *T. Murayama, M. Sekiguchi*
- S09P-11** Lidar, sunphotometer and ozonemeter measurements of urban boundary layer of the atmosphere over Sofia-Bulgaria --- *N. Kolev, V. Gigorieva, I. Kolev, P.C.S. Devara, P. E. Raj, K. K. Dani*
- S09P-12** One year measurements of aerosol optical depth during development of the atmospheric boundary layer over urban area (Sofia-Bulgaria) --- *T. Evgenieva, B. Tatarov, N. Kolev, I. Iliev, P. Savov, B. Kaprielov, I. Kolev*
- S09P-13** Observation of Australian Desert dust: comparison of lidar and aerial in situ measurements --- *C. Dickinson, J. Whiteway, J. Hacker, W. Junkermann, R. Mitchell, V. Popovici*

- S09P-14** Regularization algorithm for retrieval of particle properties from multiwavelength lidar measurements using the sun photometer data as a constraint --- *A. Kolgotin, I. Veselovskii, D. Müller*
- S09P-15** Statistical study of aerosol optical thickness using lidar and radiometric ground measurements --- *O. Lado-Bordowsky, O. Delannoy, G. Swiathy*
- S09P-16** Using a Camera Lidar and Nephelometer for aerosol profiling --- *N. C. P. Sharma, J. E. Barnes, T. B. Kaplan, A. D. Clarke*
- S09P-17** Lidar measurements of aerosols in an underground station --- *J. C. Raut, P. Chazette, A. Fortain*
- S09P-18** Lidar method for measuring particulate Emission rate from aircraft jet engines - initial trial and planned improvements --- *W. L. Eberhard, R. Wayson, B. J. McCarty, R. D. Marchbanks, W. A. Brewer*
- S09P-19** Microphysical characteristics of aerosols and their relationship with surface meteorological parameters over Sofia, Bulgaria --- *P. C. S. Devara, S. K. Saha, P. E. Raj, K. K. Dani, N. Kolev, P. Savov, I. Kolev*
- S09P-20** Development of Shipborne and Helicopter-based Oceanographic Fluorescence Lidar --- *M. Sasano, K. Hitomi, T. Morinaga, H. Yamanouchi*
- S09P-21** Dual-polarization backscatter lidar in the ocean --- *J. H. Churnside*
- S09P-22** Red-tide monitoring in San Luis Obispo Bay, CA using lidar --- *D. Rohan, T.J. Bensky*
- S09P-23** Feasibility of laser-induced fluorescence spectrum (LIFS) lidar for floating pollen detection --- *Y. Saito, K. Ichihara, K. Morishita, F. Kobayashi, T. Kawahara, T. Ohtani*
- S09P-24** Short-range, unconventional lidar --- *Z. Guan, M. Lewander, R. Grönlund, S. Svanberg*

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**Thursday, 26 June 2008**

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15:15-17:15 **Poster Session III**

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**Session 10P: Atmospheric Water Vapor and Tropospheric Temperature – Poster Presentations**

**Co-Chairs: Arnoud Apituley, Paolo Di Girolamo, Volker Wulfmeyer**

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- S10P-01** Field observations of water vapor distribution in volcanic plumes with a Raman lidar --- *T. Nakamura, T. Hashimoto, A. Terada, Y. Katsube, J. Maruyama, T. Tsuda*

- S10P-02** A temperature and water vapor solar-blind Raman lidar: calibration and field tests --- *I. Serikov, M. Froidevaux, P. Ristori, V. Simeonov, Y. Arshinov, S. Bobrovnikov, H. Van den Bergh, M. B. Parlange*
- S10P-03** Automatic calibration procedure for Raman lidar water vapor profiles through not collocated operational radiosoundings --- *D. Dionisi, F. Congeduti, G. L. Liberti, F. Cardillo*
- S10P-04** Processing of Raman lidar measurements for water vapor mixing ratio retrieval --- *P. Bosser, O. Bock, C. Thom, J. Pelon*
- S10P-05** Meteorological water vapor Raman lidar - calibration --- *T. Dinoev, P. Ristori, B. Calpini, H. van den Bergh, M. Parlange, V. Simeonov*
- S10P-06** Raman-lidar, sunphotometer and GPS measurements of water vapor and aerosols over the New York City metropolitan area --- *Y. Wu, V. D. Vladutescu, S. Chaw, B. Gross, F. Moshary, S. Ahmed*
- S10P-07** High-spectral-resolution lidar with Alkali-atom vapor filters for measuring temperature profile of the troposphere --- *T. Kobayashi, H. Kawai, T. Kato*
- S10P-08** State-of-the-art daytime scanning temperature measurements by rotational Raman lidar --- *M. Radlach, A. Behrendt, S. Pal, A. Riede, V. Wulfmeyer*
- S10P-09** Water vapor profiling using a compact widely tunable diode laser differential absorption lidar (DIAL) --- *A. R. Nehrir, K. S. Repasky, M. D. Obland, Y. Xiong, J. L. Carlsten, J. A. Shaw*
- S10P-10** One Year of Routine Operation with the Water Vapor DIAL on Mt. Zugspitze - -- *H. Vogelmann, T. Trickl*
- S10P-11** Compact Eye-Safe Water Vapor Differential Absorption Lidar for Earth and Mars Atmospheric Water Profiling --- *R. De Young, N. P. Barnes, D. Reichle, B. Walsh*
- S10P-12** Water vapor and atmospheric boundary layer temporal evolution in Buenos Aires, Argentina during the night January 1, 2008 --- *L. A. Otero, P. R. Ristori, E. J. Quel*