Jul 24 Monday

9:00 Opening Remarks
9:10-10:40
Session 1O Opening session
Session Chairs: Chikao Nagasawa* and Robert T. Menzies* (*ICLAS member)
Oral Presentations

10:40-11:00 Coffee break

11:00-12:30
Session 2O Lidar technology
Session Chairs: Yuri Arshinov* and Takao Kobayashi
Oral Presentations

Lidar methods

Lidar systems, Lidar components

12:30-14:00 Lunch break

14:00-15:15
Session 2O Lidar technology
Session Chairs: Bruce M. Gentry and Tomohiro Nagai
Oral Presentations

Lidar systems

15:15-15:30 Coffee break

15:30-16:45
Session 2O Lidar technology
Session Chairs: Gerhard Ehret* and Hiroaki Kuze
Oral Presentations

Lidar systems

Education

2P-66 **Under Graduate Lidar Education at Georgia Tech.** 303
L.L. West, A. K. Garrison, G. G. Gimmestad, D.W. Roberts, J. M. Stewart, J. W. Wood, A. L. Bowling (Georgia Institute of Technology)

17:00-19:00
Session PD1 Post deadline posters
Poster Presentations

PD1-1 **Combined Analog-to-Digital and Photon Counting Detection Utilized for Continuous Raman Lidar Measurements**
Diana Petty, Dave Turner (Pacific Northwest National Laboratory)

PD1-2 **Improving CALIPSO Lidar Retrievals of Surface Level Backscatter as a Proxy for PM2.5 Using MODIS Path Reflectance Constraints**
L. Charles, M. M. Oo, B. Hermann, B. Gross, F. Moshary, S. Ahmed (Optical Remote Sensing Laboratory, City College of New York)

PD1-3 **The RIVM Mobile Lidar – Design and Operation of a Versatile System for Measuring Atmospheric Trace Gases**
Stijn Berkhout, René van der Hoff, Dann Swart, Hans Bergwerff (National Institute for Public Health and the Environment (RIVM))

PD1-4 **A Compact, Rapidly Tunable Ce:LiCAF DIAL Transmitter for Airborne Ozone Measurements**
Coorg R. Prasad, Victor A. Fromzel, Wenhui Shi, Chris S. Wilks, Russell De Young (Science and Engineering Services, Inc.)

PD1-5 **NASA Langley Airborne High Spectral Resolution Lidar Instrument Description**
David B. Harper, Anthony Cook, Chris Hostetler, John W. Hair, Terry L. Mack (NASA Langley Research Center)

PD1-6 **Depolarization Standoff Lidar for Discrimination of Biological Warfare Aerosols**
Hyo S. Lee, I. H. Hwang, Sangwoo Lee, Guangkun Li, Robert M. Setrino, Coorg R. Prasad (Science and Engineering Services, Inc.)

Chair persons:
(2P-1-13+PD1-1,2) Chikao Nagasawa* and Bruce M. Gentry
(2P-14-26+PD1-3) Yuri Arshinov* and Takao Kobayashi
(2P-27-39+PD1-4) Robert T. Menzies* and Tomohiro Nagai
(2P-40-52+PD1-5) Gerhard Ehret* and Hiroaki Kuze
(2P-53-66+PD1-6) Andreas Behrendt and Upendra Singh*

Jul 25 Tuesday

9:00-10:30
Session 30 Climate change (climatology, aerosol-cloud interaction, etc.)
Session Chairs: Edwin Eloranta and Takashi Shibata
Oral Presentations

Aerosols and clouds

10:30-11:00 Coffee break

11:00-12:30
Session 30 Climate change (climatology, aerosol-cloud interaction, etc.)
Session Chairs: Jens Boesenberg* and Zhishen Liu
Oral Presentations

Aerosols and clouds

CO2 measurements

12:30-14:00 Lunch break

14:00-15:15
Session 4O Upper atmosphere
Session Chairs: Chiao-Yao She and Takuya Kawahara
Oral Presentations

15:15-15:30 Coffee break

15:30-16:45
Session 4O Upper atmosphere
Session Chairs: Philippe Keckhut and Takuji Nakamura
Oral Presentations

17:00-19:00
Session 3P Climate change (climatology, aerosol-cloud interaction, etc.)
Poster Presentations

Climate change (climatology, aerosol-cloud interaction, etc.)

17:00-19:00

Session 4P Upper atmosphere (tropopause, stratosphere, middle atmosphere and mesopause)

Poster Presentations

17:00-19:00

Session PD2 Post deadline posters

Poster Presentations

PD2-2 **Performance Estimates of the Phoenix Mars Scout Lidar System**
Cameron S. Dickinson, Thomas J. Duck (Dalhousie University, Department of Physics and Atmospheric Science)

PD2-3 **Characterization of Error Sources for Airborne and Space-Based CO2 DIAL Measurements**
Susan A. Kooi, Edward V. Browell, Syed Ismail, Michael E. Dobbs, Berrien Moore III, T. Scott Zaccheo (SAIC/NASA Langley Research Center)

PD2-4 **NLC, Potassium Densities and Temperatures by Lidar and Falling Sphere at Spitsbergen, 78° N**
Josef Hoeffner (Institute of Atmospheric Physics (IAP))

PD2-5 **Combination of Lidar and Radar Observations to Retrieve Microphysical Properties of Boundary Layer Clouds Using a New Analytical Approach**
Damien Josset, Jacques Pelon, Alain Protat, Martial Haeffelin (Service d'aeronomie/IPSL)

PD2-6 **Long Range Transport of Forest Fire Smoke Aerosols**
T. J. Duck, B. Firanski, C. Dickinson, M. Coffin, A. Stohl (Dalhousie University, Department of Physics and Atmospheric Science)

PD2-7 **Observation and Model Analysis of a Long-Range Transport Event of Asian Dust and Pollutants to Taiwan**
Chuan-Yao Lin, Z. Wang, W. N. Chen, S. Y. Chang, Charles C.K. Chou (Research Center for Environmental Changes)

PD2-8 **Optical Properties of Lidar-Observed PSC on the Early Stage of PSC Formation over Dome Station, Antarctic**
Kouichi Shiraishi, Masahiko Hayashi, Motowo Fujiwara, Tahashi Shibata, Yasunobu Iwasaka, Shinji Makiyama, Kentaro Murayama (Faculty of Science, Fukuoka university)

PD2-9 **Characterization of Biomass Burning Aerosols from Microlidar and Co-Located Observations at Djougou (Benin) during AMMA/SOP 0**
J. Pelon, M. Mallet, A. Mariscal, S. Crewell, S. Victori, P. Goloub, J. Haywood (SA-LMD/IPSL, CNRS)

PD2-10 **Cloud-Aerosols Spin-Off Products Relevant to Climate Monitoring to be Provided by the "ADM - ÆOLUS" ESA's Wind Mission: the L2A Data Processor and New Concept of**
Pierre H. Flamant (Laboratoire de Météorologie Dynamique Institut Pierre Simon Laplace (LMD/IPSL))

Chair persons:

(3P-1-10+PD2-1,2) Jens Boesenberg* and Takashi Shibata
(3P-11-20+PD2-3,4) Edwin Eloranta and Zhishen Liu
(3P-21-30+PD2-5,6) Jun Zhou* andAndrew Cheng
(3P-31-41+PD2-7) J.B. Nee and Nobuo Sugimoto*
(4P-1-11+PD2-8) Chiao-Yao She, Takuya Kawahara and A. Hauchecorne
(4P-12-22+PD2-9,10) Philippe Keckhut and Takuji Nakamura

Jul 26 Wednesday

9:00-10:30

Session 5O Local, regional and global air quarity (tropspheric chemistry, transport, etc.)

Session Chairs: Gelsomina Pappalardo* and Toshiyuki Murayama

Oral Presentations

10:30-11:00 Coffee break

11:00-12:00

Session 5O Local, regional and global air quarity (tropspheric chemistry, transport, etc.)

Session Chairs: Adolfo Comeron* and J.B Nee

Oral Presentations

5O-9 **Airborne Lidar Measurements of Ozone and Aerosol Distributions over North America and the Western Atlantic Ocean during the INTEX-NA Field Experiment** 659
Edward V. Browell, Johnathan W. Hair, Carolyn F. Butler, Marta A. Fenn, Anthony Notari, Susan A. Kooi, Syed Ismail, Richard A. Ferrare, Melody A. Avery, R. Bradley Pierce (NASA Langley Research Center)

12:00-13:00 Lunch break

13:00-17:00
Excursion

18:00-19:00
ICLAS Open business meeting

19:30-20:30
Noh Attraction !!!

Jul 27 Thursday

9:00-10:15

Session 6O Lidar-networking strategy, networking technologies

Session Chairs: Raymond M. Hoff and Nobuo Sugimoto*

Oral Presentations

10:15-10:45 Coffee break

10:45-12:30

Session 7O Meteorological processes, weather forecast (wind, water vapor, temperature, etc.)

Session Chairs: Pierre H. Flamant* and R. Michael Hardesty

Oral Presentations

12:30-14:00 Lunch break

14:00-15:30
Session 7O Meteorological processes, weather forecast (wind, water vapor, temperature, etc.)
Session 8O Hydrosphere, cryosphere, vegetation and crustal dynamics applications and others
Session Chairs: Thomas Trickl and Arnold Apituley*

Oral Presentations

Session 8O Hydrosphere, cryosphere, vegetation and crustal dynamics applications and others

16:00-18:00

Session 5P Local, regional and global air quality (tropspheric chemistry, transport, etc.)

Poster Presentations

16:00-18:00

Session 6P Lidar-networking strategy, networking technologies

Poster Presentations

16:00-18:00

Session 7P Meteorological processes, weather forecast (wind, water vapor, temperature, etc.)

Poster Presentations

16:00-18:00

Session 8P Hydrosphere, cryosphere, vegetation and crustal dynamics applications and others

Poster Presentations

16:00-18:00

Session 9P Space-borne lidars, space applications, space program

Poster Presentations

Chair persons:

(5P-1-12) Toshiyuki Murayama and Anatoli Chaikovsky
(5P-13-24) Adolfo Comeron* and Choo Hie Lee
(5P-25-33+ 6P-1-3) Raymond M. Hoff and Gelsomina Pappalardo*
(7P-1-10) Pierre H. Flamant* and R. Michael Hardesty
(7P-11-14, 8P-1-6) Thomas Trickl and Arnold Apituley*
(9P-1-8) Kohei Mizutani and Edward V. Browell
(9P-9-15) Stuart Young* and Yoshihito Hirano

18:30-20:30
Banquet

Jul 28 Friday

9:00-10:45
Session 9O Space-borne lidars, space applications, space program
Session Chairs: Patrick McCormick* and Kohei Mizutani
Oral Presentations

10:45-11:00 Coffee break

11:00-12:45
Session 9O Space-borne lidars, space applications, space program
Session Chairs: Edward V. Browell and Stuart Young*
Oral Presentations

12:45-14:00 Lunch break

14:00-15:30
Session 9O Space-borne lidars, space applications, space program
Session Chairs: Upendra Singh* and Yoshihito Hirano
Oral Presentations

15:30-16:00
Closing session