

12th Coherent Laser Radar Conference
15-20 June 2003, Bar Harbor Maine, US

Day/Time	Session	Presider	Speaker	Title
Sunday, 15 June 2003				
1700 - 2000	Registration and Reception			
Monday, 16 June 2003				
0730 - 0830	Breakfast			
0830 - 0845	Introductory Remarks	Richard Heinrichs		
0845 - 0920	Conference Introduction Talk		Christian Werner	200th Anniversary of Christian A. Doppler (Invited)
0920 - 0945	Space Based Doppler Lidar	Gary Spiers	Michael Kavaya	NASA's New Laser Risk Reduction Program For Future Space Lidar Missions
0945 - 1010			Gert-Jan Marseille	Measurement Error and Correlation Impact on the Atmosphere Dynamics Mission (MERC1)
1010 - 1035	Break			
1035 - 1100	System Performance	Dennis Killinger	Aniceto Belmonte	WindLab: Simulation Software for Space-Borne Doppler Lidars
1100 - 1125			Grady Koch	Validar: A Testbed for Advanced 2- μ m Coherent Doppler Wind Lidar
1125 - 1200			Ralph Tatam	(Invited)
1200 - 1235	Lunch		G. N. Pearson	Pulsed Doppler Lidar at 1.55 μ m (Invited)
1235 - 1400			Christine Spiegelberg	Low Noise Narrow Linewidth Fiber Laser at 1550 nm
1400 - 1425			Christian Werner	All Fiber Laser Doppler Anemometer
1425 - 1450			Alan Brewer	Recent Measurements and Modifications to the NOAA/ETL Mini-MOPA Doppler Lidar
1450 - 1515				
1515 - 1540	Break			
1540 - 1605		Sumanth Kaushik	Yoshihito Hirano	Development of High Performance 1.5 μ m Doppler LIDAR
1605 - 1630			Michael Dehring	Recent Measurement Achievements of the GroundWinds Direct Detection Doppler Wind Lidars
1630 - 1655			David Bowdle	Comparison of Measured and Modeled Aerosol Backscatter at 2 Micrometers Wavelength
1655 - 1720			Shumpei Kameyama	A Compact All-Fiber Pulsed Coherent Doppler Lidar System and its Performance Evaluation
1720 - 1745			Shoken Ishii	Comparison of Wind Profile Observed by Coherent Doppler Lidar, VHF Radar, and Radiosonde at Wakkani, Hokkaido

Day/Time	Session	Presider	Speaker	Title
Tuesday, 17 June 2003				
0730 - 0830	Breakfast			
	Device Technology	Sammy Henderson		
0830 - 0905			Joseph Paranto	Coherent Heterodyne Array Mixing For Laser Radar (Invited)
0905 - 0930			Charley Hale	Frequency Stable and Broadly Tunable Master and Local Oscillators for Advanced Eyesafe Coherent Laser Radar Applications
0930 - 0955			Kamjou Mansour	Narrow Linewidth Single-Mode Semiconductor Laser Development for Coherent Detection Lidar
0955 - 1020	Break			
1020 - 1055			Steven Augst	Coherent Beam Combining and Noise Measurements of 10-W Ytterbium Fiber Laser Amplifiers (Invited)
		Michael Hardesty		
1055 - 1120			Arun Kumar Sridharan	High Pulse Energy Yb:YAG MOPA and Non-Linear Frequency Conversion Module for Remote Sensing Applications
1120 - 1145			Jonathan Ashcom	Coherent Single-Photon Counting with InGaAsP/InP Avalanche Photodiode Arrays
1145 - 1210			Jirong Yu	High-Energy 2- μ m Laser Development
1210 - 1340	Lunch			
1340 - 1405			Robert Stoneman	Eyesafe YAG Lasers for Coherent Laser Radar
	Windfields	Alan Brewer		
1405 - 1440			Steve Hannon	Measurements with CTI Commercial Wind Tracer (Invited)
1440 - 1505			Alain Dabas	Dopper Lidar Observation of Mistral in the Rhone Valley During the ESCOMPTE Experiment
1505 - 1700	Free time			
2000 - 2200	Panel Discussion			

Day/Time	Session	Presider	Speaker	Title
Wednesday, 18 June 2003				
0730 - 0830	Breakfast			
	Windfield (Con't)	Alain Dabas		
0830 - 0855			Stephan Rahm	Airborne Two Micron Coherent Lidar Wind Profiles
0855 - 0920			David Emmitt	Using a Bi-Axis Scanning Airborne Coherent Doppler Lidar to Measure Marine Boundary Layer Winds and Ocean Waves
0920 - 0945			Oliver Reitebuch	Airborne Doppler Lidar Observations and Numerical Simulations of „Alpine Pumping“ Mesoscale Flow
0945 - 1015	Break			
	Hard Targets	Paul McManamon		
1015 - 1050			Thomas Karr	DARPA SALT Program (Invited)
1050 - 1115			Thierry Gaudo	Robustness of Laser Vibrometer Demodulation Processing on Moving Targets at Low Carrier to Noise Ratio
1115 - 1150			Robert Hintz	Laser Vibration Efforts (Invited)
1150	Lunch			
	Afternoon Free			
1900 - 2100	Sunset Cruise			

Day/Time	Session	Presider	Speaker	Title
Thursday, 19 June 2003				
0730 - 0830	Breakfast			
0830 - 0855	Hard Targets (Con't)	David Willetts	Steve Johnson	Simulation of Doublet Pulse Velocity Estimation Error
0855 - 0920			Per Jonsson	Detection of Buried Land Mines using Acoustic Excitation and a Fiber-Based Coherent Laser Radar
0920 - 0955			Doug Youmans	Joint-Time-Frequency & Gaussian-Chirplet Processing of Coherent Ladar Returns from Resolved Vibrating Diffuse Surfaces
0955 - 1020			Timothy Monarski	MicroDoppler Signature Measurement Using a 1.5 μm Solid State Raman Laser Vibrometer
1020 - 1045	Break			
1045 - 1110	Signal Processing	Stephan Rahm	Bruce Barnes	Low Cost Coherent Doppler Lidar Data Acquisition and Processing
1110 - 1135			Sumanth Kaushik	Simple Method to Ameliorate Optical Parasitic in CW Monostatic Coherent LADAR
1135 - 1200			Michael Harris	Wind-Speed Measurements by Detection of Single-Particle Scattering
1200 - 1330	Lunch	Grady Koch		
1330 - 1355			Rod Frehlich	Performance of Coherent Doppler Lidar Velocity Estimates with Pulse Accumulation
1355 - 1420			Matthieu Valla	End to End Monte-Carlo Simulation of Heterodyne Doppler Lidar
1420 - 1445	Wake Vortex Measurements	Christian Werner	Rod Frehlich	Evaluation of Wake Vortex Tracking with Coherent Doppler Lidar
1445 - 1515	Break			
1515 - 1540			Friedrich Köpp	Wake-Vortex Characterisation by Pulsed Doppler Lidar
1540 - 1605			David Willetts	Turbulence Measurements Around a Hovering Helicopter
1605 - 1630			Scott Shald	Feed Forward Clear Air Turbulence Mitigation: Estimation of Vertical Winds Ahead of an Aircraft
1630 - 1655			Agnes Dolfi-Bouteyre	Catapult Measurements of Aircraft Wakes using Coherent Laser Radar and Tomoscopy
1900	Conference Dinner			

Day/Time	Session	Presider	Speaker	Title
Friday, 20 June 2003				
0730 - 0830	Breakfast DIAL	Robert Menzies		
0830 - 0905			Mark Phillips	Development of an Airborne Coherent Transceiver for Laser Absorption Spectrometry of Global Carbon Dioxide (Invited)
0905 - 0930			Fabien Gibert	Simulation of Heterodyne DIAL Performance for Atmospheric CO ₂ Concentration Measurements
0930 - 0955			Grady Koch	2- μ m Coherent DIAL Measurements of Atmospheric CO ₂
0955 - 1020			R. Michael Hardesty	Airborne Measurements of Boundary Layer Turbulent Structures Using Co-Deployed Doppler and DIAL Lidars
1020 - 1045			Daniel C. Senft	Comparison of Radiometric and Chemical Detection Sensitivities for Heterodyne and Direct Detection DIAL
1045 - 1110	Break Turbulence	Dietmar Letalick		
1110 - 1135			Viktor Banakh	Wind Turbulence Parameters Measurements over Sea by Doppler Lidar and Radar
1135 - 1200			Alexander P. Shelekhov	Doppler Shift Fluctuations in Boundary Layer Turbulence
1200 - 1225			Pierre H. Flamant	Burst Illumination Imaging Lidar: Application to Vision Through Refractive Index Turbulence
1225 - 1250			Gabriel Lombardi	Multiple-Pulse Coherent Laser Radar Waveform
1250 - 1300	Closing Remarks			
1300	Lunch			

As of Wednesday, 21 May 2003, 1:00pm