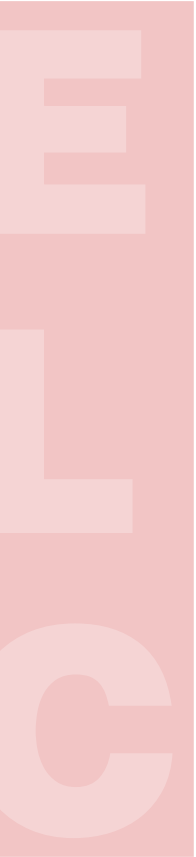


Conference Program



2018 EUROPEAN LIDAR CONFERENCE

3-5 July 2018

KEDEA

Thessaloniki | GREECE

<https://elc2018.eu/>

PROGRAM OVERVIEW

		2/7/2018	3/7/2018	4/7/2018	5/7/2018
8:00	8:30		Registration	Registration	Registration
8:30	8:45				
8:45	9:00				
			Session 1: Lidar Technology	Session 3: Open topic - The status of European lidar activities and missions 30 years after Bilan Energetique du Systeme Tropical (BEST)	Session 5: Challenges - Quantifying Lidar Data Uncertainties
9:00	10:30				
10:30	11:00		Coffee Break	Coffee Break	Coffee Break
			Session 1: Lidar Technology	Session 3: Open topic - The status of European lidar activities and missions 30 years after Bilan Energetique du Systeme Tropical (BEST)	Session 5: Challenges - Quantifying Lidar Data Uncertainties
11:00	12:30				
			LUNCH BREAK	LUNCH BREAK	LUNCH BREAK- Lunch Box
12:30	13:30				
13:30	15:00		Session 2: Lidar Algorithms and Data Products	Session 4: Lidar applications	Trip & dinner (expected return to Thessaloniki 23:00-23:30)
15:00	15:30		Coffee Break	Coffee Break	
			Session 2: Lidar Algorithms and Data Products	Session 4: Lidar applications	
15:30	16:15				
			Discussions	Discussions	
16:15	16:45				
16:45	17:30		Companies highlights	Companies highlights	
17:30	18:30		Posters (All sessions)	Posters (All sessions)	
18:00	20:30	Registration	Welcome Reception		

ORAL PRESENTATIONS

REGISTRATIONS AND OPENING

MONDAY 2 JULY AMPHITHEATER II

18:00	20:30	Registration
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TUESDAY 3 JULY AMPHITHEATER II

8:00	8:15	Registration
8:15	8:30	Registration
		Conference opening
8:30	8:45	Welcome and logistics - Dimitris Balis
8:45	9:00	The ELC concept - Gelsomina Pappalardo

TUESDAY 3 JULY AMPHITHEATER II

Session 2: Lidar Algorithms and Data Products		
13:30	13:45	Giuseppe D'Amico (Invited) - 73 EARLINET Single Calculus Chain: Handling Quality Control and Traceability in Research Infrastructures Operating Inhomogeneous Sensors
13:45	14:00	
14:00	14:15	Gerd-Jan van Zadelhoff - 64 The ATLID (EarthCARE lidar) Feature Mask processor
14:15	14:30	Matthias Tesche - 9 3+2X: On the Optimum Depolarisation Input for Inverting Lidar Measurements of Non-spherical Particles
14:30	14:45	Livio Belegante - 100 How Useful Are Polarization Measurements For Aerosol Typing? Study Case: Crete.
14:45	15:00	Igor Veselovskii - 117 Synergy of Multiwavelength Lidar Measurements and Aerosol Transport Model for Improved Particle Characterization
15:00	15:15	Coffee Break
15:15	15:30	
15:30	15:45	Dietrich Althausen - 4 Calibration of the aerosol spatial and temporal resolution extinction and backscatter images from very photon limited lidar observations
15:45	16:00	Wilem Marais - 85 Reconstructing high spatial and temporal resolution extinction and backscatter images from very photon limited lidar observations
16:00	16:15	Andrey Bril - 32 Retrievals of the aerosol properties by Lidar-Radiometer Inversion Code (LRIC) from the collocated observations by AERONET radiometer and ground-based/ space lidars
16:15	16:30	
16:30	16:45	Discussions
16:45	17:00	
17:00	17:15	

TUESDAY 3 JULY AMPHITHEATER II

Session 1: Lidar Technology		
9:00	9:15	Jens Reichardt (Invited) - 25 Spectral Characterization of the New UV Fluorescence Spectrometer of RAMSES, the German Meteorological Service's Raman Lidar for Moisture Sensing
9:15	9:30	
9:30	9:45	Boyan Tatarov - 44 Lidar Spectrometer at the University of Hertfordshire: Setup and First Measurements
9:45	10:00	Detlef Mueller - 74 Identification of Mineral Dust From Type-Specific Raman-Scattering Spectra
10:00	10:15	Andreas Fix - 91 Will new detector technologies enable new lidar applications in the near to mid-infrared?
10:15	10:30	Valentin Simeonov - 108 Ratio of two PMT signals; some unexpected systematic error sources
10:30	10:45	Coffee Break
10:45	11:00	
11:00	11:15	Cristofer Jimenez - 56 Retrieval of microphysical properties of liquid water clouds based on a dual-FoV-depolarization Lidar system
11:15	11:30	Igor Razenkov - 20 Turbulent Lidar: Principle of Operation, Design of Transceiver, First Experiments, and Recovery of Turbulence Parameters
11:30	11:45	
11:45	12:00	Discussions
12:00	12:15	
12:15	12:30	

WEDNESDAY 4 JULY AMPHITHEATER II

Session 3: Open topic - The status of European lidar activities and missions 30 years after Bilan Energetique du Systeme Tropical (BEST)		
9:00	9:15	Stephen English (Invited) The anticipated contribution of new lidar observations to improving global Numerical Weather Prediction
9:15	9:30	
9:30	9:45	Anne Grete Straume-Lindner - 31 Status of the ESA Doppler wind lidar mission AEOLUS
9:45	10:00	Ad Stoffelen - 6 What if the ESA-Aeolus mission is a success?
10:00	10:15	Fabien Gilbert - 21 Preparing a Future CO2 Space Lidar Mission: from scientific objectives to signal processing and technological breakthroughs addressed in France information on submission 21
10:15	10:30	Gerhard Ehret - 49 Towards a GHG-Lidar in Space: MERLIN and beyond
10:30	10:45	Coffee Break
10:45	11:00	
11:00	11:15	David Donovan - 57 Post-EarthCARE European Cloud-Aerosol Lidars (ATLID:Mark-II ?)
11:15	11:30	Paolo Di Girolamo - 96 The Atmospheric Thermodynamics LidAr in Space - ATLAS
11:30	11:45	
11:45	12:00	Discussions
12:00	12:15	
12:15	12:30	

ORAL PRESENTATIONS

WEDNESDAY 4 JULY AMPHITHEATER II

Session 4: Lidar applications		
13:30	13:45	Albert Ansmann (Invited)
13:45	14:00	The role of ground-based active remote sensing in aerosol and cloud research
		Ed Eloranta - 33
14:00	14:15	HSRL measurements of Lidar ratios in the presence of oriented ice crystals
		Martin de Graaf - 5
14:15	14:30	UV-depolarisation lidar measuments of aerosol and cloud microphysical properties over Ascension Island.
		Silke Gross - 55
14:30	14:45	Cirrus cloud characterization with combined airborne high spectral resolution and differential absorption lidar and cloud radar measurements
14:45	15:00	Maria Filioglou - 23
15:00	15:15	Aerosol effect on low-level cloud formation over the Arctic
15:15	15:30	Coffee Break
		Franco Marengo - 2
15:30	15:45	Spaceborne lidar datasets: operational use
		Michael Sicard - 22
15:45	16:00	Tropospheric and stratospheric impact of Canadian smoke plumes over the Iberian Peninsula in August-September 2017
		Robin Wing - 46
16:00	16:15	Nine Year Comparison of Temperatures Measured by the OHP Rayleigh Lidar to Temperatures from SABER/TIMED and MLS/AURA
16:15	16:30	Discussions
16:30	16:45	
16:45	17:00	
17:00	17:15	

THURSDAY 5 JULY AMPHITHEATER II

Session 5: Challenges - Quantifying Lidar Data Uncertainties		
9:00	9:15	Georgios Tzeremes (Invited)
9:15	9:30	ATLID instrument Testing and Validation for Error reduction
		Alexander Haeefele - 16
9:30	9:45	An Optimal Estimation Framework to calculate full uncertainty budgets of lidar retrievals on a profile-per-profile basis
		Juan Antonio Bravo Aranda - 37
9:45	10:00	Estimations of the lidar depolarization uncertainties by means of a polarimetric lidar simulator
		Ina Mattis - 65
10:00	10:15	The nominal detection range: A tool for performance analysis of different lidar types – applied to the data of the CeLinEx2015 campaign
10:15	10:30	Gian Luigi Liberti - 79
10:30	10:45	Dead time variables estimation and correction
10:45	11:00	Coffee Break
		Francesc Rocabenbosch - 115
11:00	11:15	Quantification of error sources in the Klett-Fernald algorithm
		Fabrizio Innocenti - 40
11:15	11:30	Field Validation and Uncertainty Assessment of Emission Measurements Using the Differential Absorption Lidar Technique
11:30	11:45	Discussions
11:45	12:00	
12:00	12:15	
12:15	12:30	

POSTER SESSION

Session 1: Lidar Technology (8)

38	Livio Belegante, Ilya Serikov, Björn Brüggmann, Ludwig Worbes, Victor Nicolae, Mihai Boldeanu, Doina Nicolae and Alexandru Tilea	Depolarization channel design for an airborne High Spectral Resolution Lidar
67	Nikolay Baranov and Gleb Petrov	A new approach for low-level signal processing for wind profiler
75	Mateusz Samson, Kamila Harenda, Patryk Pocza, Lucja Janicka, Dongxiang Wang, Alexandros Louridas, George Georgousis, Bernhard Stein, Matthias Resch, Norbert Graf, Bogdan Chojnicki, Dirk Schuettemeyer and Iwona Stachlewska	Lidar Observations of Aerosol Optical Properties over Wetland Ecosystem in Rzezin, Poland
77	Boyan Tatarov, Detlef Müller, Matthias Tesche, and Sung-Kyun Shin	Daytime Raman measurements with the spectroscopic lidar at the University of Hertfordshire
78	Michael Kottas, Vassilis Amiridis, Volker Freudenthaler, Alexandra Tsekeri, Panagiotis Kokkalis, Ioannis Binietoglou, George Georgousis, Alexandros Louridas and Nikolaos Hatzianastassiou	Ground-based LIDAR for the validation of Aeolus aerosol product
88	Ludwig Worbes, Björn Brüggmann, Ilya Serikov, Livio Belegante and Doina Nicolae	Closed Loop FPI Pressure Tuning Setup for the MULTIPLY HSR-Lidar
95	Livius Buzdugan, Marius Mihai Cazacu and Sabina Stefan	Assessment of Doppler Lidar and Sodar wind measurements at Otopeni Airport
104	George Tsaknakis, Christos Evangelatos, Dimitris Papadopoulos, George Aydikos, Alexandros Papayannis and George Tzeremes	Implementation of an actively Q-Switched DPSS laser in the frame of the ESA QOMA II project, based on multidoping crystal technology with direct pumping at 885nm

Session 2: Lidar Algorithms and Data Products (14)

3	John Kealy, Franco Marengo, John Marsham, Luis Garcia-Carreras, Pete Francis, Michael Cooke and James Hocking	Meteosat Second Generation cloud retrievals evaluated with airborne lidar during Fennec
7	Alexei Kolgotin, Detlef Müller, Igor Veselovskii and Mikhail Korenskiy	Aerosol Typing: How Many Aerosol Types Can Be Inferred From Multiwavelength HSRL/Raman Lidar Data?
8	Matthias Tesche, Sung-Kyun Shin, Detlef Müller, Kwanchul Kim, Boyan Tatarov, Maria Kezoudi and Youngmin Noh	On the depolarization ratio of mineral dust as derived from AERONET measurements
10	David Donovan, Gerd-Jan van Zadelhoff and Ulla Wandinger	Extinction and Backscatter retrieval algorithms for ATLID (the EarthCARE lidar)
18	Ourania Soupiona, Christine Böckmann, Alexandros Papayannis, Maria Mylonaki, Panagiotis Kokkalis, Christina Anna Papanikolaou and Romanos Foskinis	Lidar-based Inversions of Aerosol Microphysical Parameters from Long-range Transported Events over Athens
27	Alexandros Pantazis, Alexandros Papayannis and Georgios Georgousis	ALGORITHMS FOR PLANETARY BOUNDARY LAYER HEIGHT DETERMINATION FOR 3D SCANNING LIDAR SYSTEMS
34	Nikolaos Papagiannopoulos, Nikolaos Siomos, Giuseppe D'Amico, Dimitris Balis and Lucia Mona	An EARLINET-based aerosol classification using statistical Mahalanobis distance: methodology and examples
42	Andrei-Victor Nicolae, Doina-Nicoleta Nicolae, Belegante Livio, Simona Andrei, Camelia Talianu and Luminița Mărmureanu	How Sensitive Is The Aerosol Typing To The Calibration Of Depolarization Measurements? Study Case: Bucharest.
61	Carmen Cordoba-Jabonero, Sara Basart, Ana Del Aguila and Marcos Jimenez	Dust mass concentration profiles derived from polarized Micro-Pulse Lidar (P-MPL) measurements and NMMB/BSC-Dust modelling simulations: A case study of an intense dusty event unusually occurred in wintertime over Madrid (Central Spain)
68	Fabio Lopes, Gregori Moreira, Juan Luis Guerrero-Rascado, Jonatan Silva, Diego Gouveia, Antonio Gomes, Livio Belegante, Volker Freudenthaler, Henrique Barbosa, Lucas Alados-Arboledas, Doina Nicolae, Alexander Geiss, Anne Grete Straume and Eduardo Landulfo	Improving the Instrument and Analysis Capabilities of the São Paulo LALINET Lidar Station in the Framework of the APEL Project
71	Jose Antonio Benavent Oltra	Comparative of GRASP retrievals with airborne measurements during SLOPE 2
72	Jose Antonio Benavent Oltra	Statistical analysis of aerosol properties retrieved by GRASP over São Paulo (Brazil)
89	J. A. Loring, P. Ortiz-Amezcu, J. A. Benavent Oltra, J. A. Bravo-Aranda, M. Hoyos-Restepo, M. Castro-Santiago, L. Alados-Arboledas and J. L. Guerrero-Rascado	Comparison of optical products retrieved by the EARLINET Single Calculus Chain (SCC) and operational retrieving algorithm at the EARLINET Granada station
103	Nikolaos Papagiannopoulos, Lucia Mona, Giuseppe D'Amico and Gelsomina Pappalardo	Towards an alerting system for airborne hazards using EARLINET

POSTER SESSION

Session 3: Open topic - The status of European lidar activities and missions 30 years after Bilan Energetique du Systeme Tropical (BEST) (5)

17	J��r��mie Lochar, Jean-Claude Barthes, Olivier Lecrenier, Richard Wimmer, Phil McGoldrick, Anders Elfving and Denny Wernham	AEOLUS-ALADIN mission: validation results
24	Christian Lemmerz, Oliver Lux, Uwe Marksteiner, Stephan Rahm, Oliver Reitebuch, Andreas Sch��fler, Fabian Weiler and Benjamin Witschas	Airborne Campaigns for the Validation of ESA's Doppler wind lidar mission Aeolus
41	Rodanthi-Elisavet Mamouri, Albert Ansmann, Argyro Nisantzi, Johannes Buehl, Patric Seifert, Ulla Wandinger and Diofantos Hadjimitsis	Strategic positioning of the 'ERATOSTHENES Research Centre' in the Eastern Mediterranean and Middle East region: ERATOSTHENES Remote Sensing Super Site
45	Thomas Flament, Alain Dabas and Dorit Huber	Aeolus aerosol optical properties processor: principles, simulation of performances and example datasets
94	Alin Iulian Rosu, Marius Mihai Cazacu and Silviu Gurlui	A new telemetric approach to retrieve various atmospheric parameters using advanced LIDAR techniques with applications in astronomy

Session 4: Lidar applications (49)

11	Martin Osborne, Mariana Adam, Joelle Buxmann, Jacqueline Sugier, Franco Marengo and Jim Haywood	Observation and Characterization of Transported Saharan Dust and Biomass Burning Aerosols Over the United Kingdom during ex-hurricane Ophelia
12	Ioana Elisabeta Popovici, Philippe Goloub, Thierry Podvin, Luc Blarel, Rodrigue Loisil, Augustin Mortier, Christine Deroo, Florin Unga, Marie Cho��l, Benjamin Torres and St��phane Victorin	Mapping of aerosol spatial variability with mobile LIDAR
13	Maria Jose Granados-Mu��oz, Nikolaos Papagiannopoulos, Michael Sicard, Lucia Mona and Rodanthi-Elisavet Mamouri	2-D aerosol radiative forcing calculation from CALIPSO observations: a demonstration study
14	Vishnu R and Bhavani Kumar Yellapragada	Observations on Long-Range Transport Using a Two Wavelength and Polarization LIDAR over A Tropical Rural Site, Gadanki (13.450 N, 79.170 E)
26	Dimitra Konsta, Alexandra Tsekeri, Ioannis Binietoglou, Antonis Gkikas, Stavros Solomos, Anton Lopatin, Sara Basart, Carlos Perez, Doina Nicolae, Dragos Ene, Philippe Goloub and Vassilis Amiridis	Dust Model Evaluation Using Ground-based and Spaceborne Active Remote Sensing
28	Ivan Grigorov, Dimitar Stoyanov and Georgi Kolarov	LIDAR measurements at the Institute of Electronics of the Bulgarian Academy of Sciences under the EARLINET project
29	Matthias Tesche, Maria Kezoudi, Helen Smith, Alexandra Tsekeri, Michael Kottas, Nikolaos Siomos, Holger Baars and Bernadett Weinzierl	Mineral dust size distributions obtained with a balloon-borne optical particle counter and validation with aircraft and remote sensing measurements
30	Holger Baars, Moritz Haarig, Albert Ansmann, Alexandra Chudnovsky, Ina Mattis, Patric Seifert, Cristofer Jimenez, Igor Veselovskii, Ronny Engelmann, Dietrich Althausen, Birgit Heese and Ulla Wandinger	Extreme levels of Canadian wildfire smoke over central Europe: Lidar study of smoke properties at 355, 532, and 1064 nm
35	Nicolae A��tai, Horatiu Stefanie, Andrei Radovici and Livio Belegante	First Multi-Wavelength LIDAR Measurements and Tests in Cluj-Napoca, Romania
36	Konstantina Nakoudi, Eleni Giannakaki, Aggeliki Dandou, Maria Tombrou and Mika Komppula	Planetary Boundary Layer height lidar retrievals over New Delhi - Comparison with other methods
39	Silke Meves, Birgit Heese, Julian Hofer and Dietrich Althausen	Aerosol profile characterization by lidar at Haifa, Israel
47	Patric Seifert, Johannes Buehl, Ronny Engelmann, Albert Ansmann, Holger Baars, Rodanthi-Elisavet Mamouri, Argyro Nisantzi, Diofantos Hadjimitsis and Martin Radenz	The Cyprus Cloud, Aerosol, and Rain Experiment (CYCARE): Lidar observations in synergy with other remote sensing techniques for advancing the understanding of atmospheric processes
48	Gleb Petrov and Nikolay Baranov	Wind mapping technic for impulse lidar
50	Ekaterina Lemishchenko and Nikolay Baranov	Experimental studies of monitoring wake vortices by a pulse Doppler lidar in the PPI mode
51	Alexander Konoshonkin, Anatoli Borovoi, Natalia Kustova, Victor Shishko and Dmitriy Timofeev	Corner Reflection in Off-zenith Lidar Sounding of Cirrus Clouds as Indicator of Horizontally Oriented Plates
52	Konstantinos Fragkos, Livio Belegante, Stergios Misios, Nikolaos Siomos, Emil Carstea and Dimitris Balis	Radiative Effects of Stratospheric Transport of biomass burning aerosols from Canada: Case Study Over Bucharest
53	Xiaoxia Shang, Stephanie Bohlmann, Maria Filioglou, Eleni Giannakaki, Annika Saarto, Sami Romakkaniemi and Mika Komppula	Optical Properties of Birch and Pine Pollen Observed by the PollyXT Raman Lidar
54	Kallitropi Artemis Voudouri, Anne Hirsikko, Mika Komppula, Eleni Giannakaki and Dimitrios Balis	Detecting cirrus clouds: Comparison of lidar and cloud radar retrievals.
59	Constantino Mu��oz-Porcar, Maria-Jos�� Granados-Mu��oz, Micha��el Sicard, Rub��n Barrag��n, Francesc Rocadenbosch, Alejandro Rodr��guez-G��mez and Adolfo Comer��n	Estimation of the hygroscopic enhancement factor of aerosol particles from selected cases in Barcelona by means of water vapor lidar measurements, surface temperatures and an atmospheric model
60	Mariana Adam, Doina Nicoleta Nicolae, Simona Andrei and Lucia Mona	Optical properties of biomass burning aerosols transported over Europe: statistical analysis of EARLINET data.
62	Argyro Nisantzi, Rodanthi-Elisavet Mamouri, Diofantos Hadjimitsis, Johannes Buehl, Patric Seifert and Albert Ansmann	Dust observations at ERATOSTHENES Research Centre: Cyprus in the middle of African-Asian Dust belt

Session 4: Lidar applications (49)

63	Carmen Cordoba-Jabonero, Ana Del Aguila and Margarita Yela	Aerosol/cloud vertical monitoring at the 'El Arenosillo' Atmospheric Observatory (SW Iberian Peninsula) with a polarized Micro-Pulse Lidar (P-MPL)
66	Hugo Ricketts, Geraint Vaughan, Matthias Tesche, Kevin Wyche, David Wareing, Duncan Mounsor, Franco Marengo and Martin Osborne	The "red sun" event over the United Kingdom on 16th October 2017 - tracking the aerosol layer
69	Elina Giannakaki, Eleni Tetoni, Anna Gialitaki, Michael Kottas, Kalliopi Artemis Voudouri and Vassilis Amiridis	The effect of multiple scattering on aerosol and cloud properties measured during Pre-TECT campaign over Finokalia, Crete
70	Florica Toanca, Mariana Adam, Anca Nemuc, Dragos Ene, Luminita Marmureanu, Simona Andrei and Cristian Radu	Synergetic Analysis of the Aerosols Physical and Chemical properties and their role in Fog Dynamics – case study
76	Nikolas Angelou, Ebba Dellwik and Jakob Mann	Characterization of a tree wake using three short-range WindScanners
80	Eleni Tetoni, Vassilis Amiridis, Elina Giannakaki, Eleni Marinou, Michael Kottas, Emmanouil Proestakis, Stavros Solomos, Anna Gialitaki, Aristeidis Georgoulas, Iwona Stachlewska, Holger Baars, Ronny Engelmann and Julian Hofer	Improvements on CALIPSO v4.10 aerosol product according to EARLINET
81	Anna Gialitaki, Vassilis Amiridis, Eleni Giannakaki, Stavros Solomos, Eleni Marinou, Eleni Tetoni, Michael Kottas, Alexandra Tsekeri, Holger Baars and Ronny Engelmann	Interpreting the observed Particle Linear Depolarization Ratio spectral dependence of aged smoke using T-matrix simulations
82	M. Castro-Santiago, J.L. Guerrero-Rascado, A. Cazorla, J.A. Bravo-Aranda, P. Ortiz-Amezcu, J.A. Benavent-Oltra, J.A. Loring, I. Foyo-Moreno, D. Pérez-Ramírez, F.J. Olmo-Reyes, G. Titos, J.A. Casquero-Vera, H. Lyamani and L. Alados-Arboledas	Synergic Combination of Active and Passive Remote Sensing Techniques for Investigating Aerosol-Cloud Interactions in Low-level Liquid Water Clouds: First Results Over the Southern Iberian Peninsula
84	Kamila Harendra, Julien Delanoë, Christophe Le Gac, Christophe Caudoux, Dongxiang Wang, Mateusz Samson, Patryk Poczta, George Georgoussis, Iwona Stachlewska and Bogdan Chojnicki	Lidar And Radar Derived Cloud And Aerosol Properties - The Assessment Of Their Impact On Mass And Heat Exchange At The Rzecin Peatland In Poland
86	P. Ortiz-Amezcu, J. A. Bravo-Aranda, G. A. Moreira, J. A. Casquero-Vera, J. A. Benavent-Oltra, J. L. Guerrero-Rascado, H. Lyamani, F. J. Olmo-Reyes and L. Alados-Arboledas	Vertical Particle Flux Observations with Remote Sensing Technique. Comparison with In-Situ Measurements during SLOPE II
87	G. A. Moreira, J. L. Guerrero Rascado, P. Ortiz-Amezcu, J. A. Benavent-Oltra, R. Roman, A. E. Bedoya-Velásquez, F. J. Olmo-Reyes, E. Landulfo and L. Alados-Arboledas	Studying the Turbulence During a Saharan Dust Outbreak in SLOPE-I Campaign
90	Benedetto De Rosa, Paolo Di Girolamo and Donato Summa	RAMAN LIDAR MEASUREMENTS BY BASIL IN THE FRAME OF THE INTERNATIONAL NETWORK FOR THE DETECTION OF ATMOSPHERIC COMPOSITION CHANGE – NDACC
92	Theano Drosoglou, Nikolaos Siomos, Kalliopi A. Voudouri, Francois Hendrick, Dimitrios Balis, Alkis F. Bais and Michel Van Roozendael	Synergy of lidar and MAX-DOAS observations for the improvement of aerosol extinction profile retrievals from O4 absorption
93	Eleni Marinou, Silke Groß, Florian Ewald, Quitterie Cazenave, Martin Wirth, Martin Hagen, Andreas Schäfler and Julien Delanoë	Airborne Radar–Lidar cloud observation during NAWDEX campaign
98	Alexandros Papayannis, Maria Mylonaki, Ourania Soupiona, Panagiotis Kokkalis, Georgios Tsaknakis, Christina Anna Papanikolaou and Romanos Foskinis	Highlights of Biomass Burning Events from 10-year Profiling over Athens, Greece in the Frame of EARLINET (2007-2017)
99	Maxime Hervo, Rolf Ruefenacht and Alexander Haebele	The E-PROFILE network of automatic lidars and ceilometers for profiling of aerosols and volcanic ash
101	Nikolaos Siomos, Dimitris Balis, Mariliza Koukoulis, Kalliopi Artemis Voudouri, Olaf Tuinder, Gijts Tilstra and Ping Wang	A comparison of the GOME2 Absorbing Aerosol Height product with the elevated layer top obtained from ground based lidar measurements in Thessaloniki.
102	Anca Nemuc, Cristina Marin, Alexandru Dandocsi, Simona Andrei, Andreea Calcan, Jeni Vasilescu, Livio Belegante, Luminita Marmureanu and Sorin Vajaia	Synergistic Aerosol Measurements in Romania
105	Iwona S. Stachlewska, Lucja Janicka, Dominika Szczepanik and Dongxiang Wang	Lidar Derived Aerosol Optical Properties and Water Vapour During Biomass Burning Episode on 19-20 March 2015 in Warsaw, Poland.
106	Dongxiang Wang, Iwona Stachlewska, Xiaquan Song and Birgit Heese	Seasonal changes in diurnal boundary layer cycle over Warsaw
107	Vassilis Amiridis, Eleni Marinou, Alexandra Tsekeri, Michael Kottas, Emmanouil Proestakis, Eleni Tetoni, Anna Gialitaki, Vassiliki Daskalopoulou, Stavros Solomos, Antonis Gkikas, Dimitra Konsta, Doina Nicolae, Livio Belegante, Dragos Ene, Simona Andrei, Emil Carstea, Horatiu Stefanie, Alexandru Dandocsi, Mika Kompulla, Maria Kanakidou, Nikos Michalopoulos, Nikos Kalivitis, George Kouvarakis, Marco Rosoldi, Monica Campanelli, Gelsomina Pappalardo, Ioannis Binietoglou, Stelios Kazadzis, Panagiotis Raptis, Joseph Ulanowski, Matthias Tesche, Detlef Mueller, Maria Kezoudi, Helen Smith, Franco Marengo, Dimitris Balis, Kalliopi Voudouri, Nikolaos Siomos, Slobodan Nickovic, Bojan Cvetkovic, Luka Ilic, Philippe Goloub, Henri Diemoz, Yaser Aslanoglu, Victor Estelles, Sara Basart, Konstantinos Eleftheriadis, George Hloupis, Bernadett Weinzierl and Prodromos Fetschatsis	The PreTECT campaign-Revealing the secrets of desert dust
109	Lucja Janicka and Iwona S. Stachlewska	Lidar Derived Intensive Aerosol Optical Properties in Multiple Layers on 9/10 August 2015 During Heat Wave Over Poland
110	Iwona S. Stachlewska	Influence of Anthropogenic Pollution and Biomass Burning on Aerosol Properties within an Urban Boundary Layer at a Far Distance from the Emission Source.

Session 4: Lidar applications (49)

111	Sarah Shallcross, Graham Mann, Ryan Neely III, Lauren Marshall, Sandip Dhomse and Jim Haywood	Global Dispersion and Microphysical Variation of the 1991 Mount Pinatubo Plume: A Ground-Based Lidar and Interactive Modelling Analysis
112	Alexandra Tsekeri, Volker Freudenthaler, Josef Gasteiger, Michael Kottas, Vasiliki Daskalopoulou, Ioannis Binietoglou, George Georgousis, Panagiotis Kokkalis, Joseph Ulanowski and Vassilis Amiridis	Detecting dust particle orientation with novel polarization lidar techniques
113	Ronny Engelmann, Hannes Griesche, Holger Baars, Patric Seifert, Martin Radenz and Kevin Ohneiser	Lidar Observations of Arctic Aerosols and Clouds in the Melting Period of 2017 during the PASCAL Expedition
116	Stephen Richardson, Michail Mytilinaios, Alex Papayannis and Ioanna Pyrr	Pollen Detection over Athens, Greece using the Laser Induced Fluorescence Lidar Technique
118	Sara Basart, Gerardo García-Castrillo, Emilio Cuevas, Philippe Goloub, Alberto Cazorla, Andrés Alastuey, Angela Benedetti, Lucia Mona, Oriol Jorba, Agustín Mortier and Enric Terradellas	Towards Dust-Related Services Based On Dust Vertical Observations

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