

International Scientific Conference**"Forest Science for a Sustainable Forestry and Human Wellbeing in a Changing World - INCDS "Marin Drăcea" 85 Years of Activity, Centenary of The Great Union in 1918"**

18/09/2018 - 21/09/2018

Bucharest, Romania

CONFERENCE PROGRAM**Tuesday, September, 18**International Hotel - 27, Căuzași Street, 030167, Bucharest, Romania17:30 - 20:30 **Registration of the participants and Welcome Reception****Wednesday, September, 19**Chamber of Commerce and Industry of Romania (CCIR Business Center) - 2, Octavian Goga Blvd., 030982, Bucharest, Romania8:00 - 9:00 **Registration of the participants - Al. I. Cuza Auditorium (Section II, 4th Floor)**9:00 - 10:00 **Conference Opening - Romică Tomescu, "Marin Drăcea" INCDS, General Director****Messages from the representatives of the International and National Institutions**

10:00 - 10:30 Coffee Break - Al. I. Cuza Lobby (Section II, 5th Floor)

10:30 - 12:30 **Plenary Session - Al. I. Cuza Auditorium (Section II, 4th Floor)****Chair** **Ovidiu Badea, "Marin Drăcea" INCDS (Romania)****Presentation movie: "Marin Drăcea" INCDS - from past to present****Keynote Speakers****Elena Paoletti: Tropospheric ozone: a silent killer of environment, Italian National Research Council - CNR (Italy)****Marco Ferretti: Terrestrial forest monitoring in the age of remote sensing and forest modelling, Swiss Federal research Institute WSL, ICP Forests (Switzerland)****Martin Lorenz: The German Forest Strategy: Target achievement control using NFI results, Thünen-Institute of International Forestry and Forest Economics (Germany)****Roger Cremades: Climate services and the Water – Energy - Land nexus, GERICS, Climate Service Center (Germany)**

12:30 - 14:00 Lunch - Aurel Ghibutiu Hall (Section IV, 1st Floor)

S1 - Forest health and climate change impact on forest ecosystems - Al. I. Cuza Auditorium I (Section II, 4th Floor)**Chairs** **Marco Ferretti, Swiss Federal research Institute WSL, ICP Forests (Switzerland)**
Walter Seidling, ICP Forests, Thünen Institute of Forest Ecosystems (Germany)14:00 - 14:25 **Keynote Speaker** **Walter Seidling (Germany): Forest health and climate change: What to consider?**

14:25 - 14:40 Climate change effects on tree growth from Romanian ICP-Forests Level II plots

Ștefan Leca (Romania)

14:40 - 14:55 Are critical levels of NH3 and NO2 exceeded at the ICP Forests level II plots in Romania? Preliminary results using the passive sampler measurements

Carmen Iacoban (Romania)

14:55 - 15:10 Nemoral deciduous forests under climatic extremes-ecosystem adaptation along climatic gradients in SW Romania and Central Germany

Helge Walentowski (Germany)

15:10 - 15:25 The Romanian scots pine forests vulnerability to the extreme climatic events influence

Cristian Gheorghe Sidor (Romania)

15:25 - 15:40 Frosts tolerance and growth of oak in changing climate - are drivers of oaks forest vulnerability archived in tree rings and genotypes?

Constantin Nechita (Romania)

15:40 - 15:55 Response function analysis using (treeclim) package, a tree ring study on the Siberian pine (Pinus sibirica) in the Altai mountains, northwestern China

Sher Shah (China)

15:55 - 16:10 Optimal structures adaptable to climate change for sessile oak stands

Ancuța Mihaela Margalinescu (Romania)

16:10 - 16:25 Adapting the planning and management of spruce forests in mountain areas to the challenges of climate change

Mihai Zotta (Romania)

16:25 - 17:00	Coffee Break		
17:00 - 17:15		Situation and problems of urban forests in Turkey	Omer Kamil Orucu (Turkey)
17:15 - 17:30		Forest fire risk assessment for Romania developed within the framework of Ro-Risk project	Marius Petrilă (Romania)
17:30 - 17:45		Analysis of the structure of forest stands of Scoreni Forest district	Vladislav Grati (Moldova)
17:45 - 18:00		The state and evolution of pine forests on the degraded lands of the Vidra experimental base	Laurențiu Popovici (Romania)

S2 - Forest resources and ecosystems services: modelling and mapping - Al. I. Cuza Auditorium II (Section II, 4th Floor)

	Chairs	Guillermo Martínez Pastur, CADIC-CONICET (Argentina) Cristina Aponte, The University of Melbourne (Australia)	
14:00 - 14:25	Keynote Speaker	Cristina Aponte (Australia): Back to the future: Forecasting the trajectory of temperate forests using a landscape simulation model	
14:25 - 14:40		Synergies and trade-offs of variable retention harvesting in Nothofagus pumilio Patagonian forests: Overview after 18 years of implementation	Guillermo Martínez Pastur (Argentina)
14:40 - 14:55		Forest increment assessment in Romanian National Forest Inventory. Methods and Models used	Marin Gheorghe (Romania)
14:55 - 15:10		Socio-environmental survey of a forest hamlet proximate to Neora Valley National Park in the Eastern Himalayas, India	Sayan Bhattacharya (India)
15:10 - 15:25		Actual concerns about agroforestry systems in Romania	Elena Mihăilă (Romania)
15:25 - 15:40		Using mushrooms in favor of both the forest and the human	Martin Pavlík (Slovak Republic)
15:40 - 15:55		Research on the determination of the main indicators that characterize the production fund of a forest using the National Forest Inventory (IFN) network	Victor-Vasile Mihăilă (Romania)
15:55 - 16:10		New aspects on establishing indicator increment as a way to control structural management of growing stock in forest management planning	Ștefan Tamaș (Romania)
16:10 - 16:25		Methods and principles applied in Forest Management Planning in a Romanian Experimental Forest District, Mihăești – a case study	Gheorghe Guiman (Romania)
16:25 - 17:00	Coffee Break		
17:00 - 17:15		Development phases and its structural characteristics in Penteleu Viforâta virgin forest in Southern Carpathians	Șerban Chivulescu (Romania)
17:15 - 17:30		Individual tree detection and dendrometric characteristics assessment for mixed Norway spruce – beech forests in Romanian Southern Carpathians using Airborne Laser Scanning and Unmanned Aerial Vehicles data	Bogdan Apostol (Romania)
17:30 - 17:45		Hydrological modeling of stream flow through the swat model in the Tărlung river basin (upper stream Săcele lake)	Mirabela Babata (Romania)
17:45 - 18:00		Evaluation of available forest roads: a case study	Erhan Çalişkan (Turkey)
18:00 - 18:15		Variable retention forestry in Nothofagus pumilio Patagonian forests as a strategy to conserve native bird species	Guillermo Martínez Pastur (Argentina)

S3 - Nature conservation and forest protected areas in a changing environment and society - Blue Auditorium (Section II, Mezzanine)

	Chairs	María Vanessa Lencinas, UNPA-INTA-CONICET (Argentina) Mihai Daniel Niță, "Transilvania" University (Romania)	
14:00 - 14:25	Keynote Speaker	Mihai Daniel Niță (Romania): Nature conservation observed from space - Analysis of human interventions in Romanian forests since 1960's	
14:25 - 14:40		Variable retention as land sharing strategy to conserve arthropod diversity in forests and non-forest ecosystems of southern Patagonia, Argentina	María Vanessa Lencinas (Argentina)
14:40 - 14:55		Forest conservation and implication on rural society in Kaimur Forest Reserve in India	Shashi Bhushan (India)
14:55 - 15:10		Could Natura 2000 management to change the perspectives of the peri urban forests in Romania?	Cristian Ioja (Romania)
15:10 - 15:25		Conservation status of the plant species and habitats of community importance in the protected areas of Carpathian range	Simona Mihăilescu (Romania)
15:25 - 15:40		Forest regeneration by local communities for sustainable livelihoods: a case study of Dimapur district in Nagaland, India	Geeta Kumari (India)
15:40 - 15:55		Description, mapping, threats and management of the habitats from ROSCI0359 Prigoria-Bengești Protected Area (Romania)	Marilena Onete (Romania)
15:55 - 16:10		The dynamics of the forest cover in Apuseni Mountains Natural Park Spatial and statistical analysis	Roxana Cuculici
16:10 - 16:25		Adaptation of silver fir seedlings (Abies alba mill.) to light conditions and climatic factors in the Beskid Mountains (Poland)	Jacek Borgulat (Poland)

16:25 - 17:00	Coffee Break		
17:00 - 17:15		Silvo-pastoral systems in native forests of Nothofagus antarctica in Southern Patagonia, Argentina	Yamina Rosas (Argentina)
17:15 - 17:30		Ecological diagnosis of beaver (Castor fiber) habitats using satellite maps and Geographic Information System (GIS)	Claudiu Pașca (Romania)
17:30 - 17:45		Return of grey wolf (Canis lupus) to Central Europe: challenges and recommendations for wolf management	Sven Herzog (Germany)
17:45 - 18:00		Flood risk management in natural protected areas	Nicu Constantin Tudose (Romania)
18:00 - 18:15		Physical status of torrent control structures in Romania	Alin-Lucian Mihalache (Romania)
S4 - Tree breeding and genetic resources for an adaptive forest management to climate change - Stefan Teodorescu Hall (Section II, Ground Floor)			
	Chairs	Flaviu Popescu, "Marin Drăcea" INCDS (Romania) Giovanni Giuseppe Vendramin, Italian National Research Council - CNR; Institute of Biosciences and Bioresources - IBBR (Italy)	
14:00 - 14:25	Keynote Speaker	Giovanni Giuseppe Vendramin (Italy): <i>Molecular signatures of climate adaptation and range expansions in Mediterranean conifers</i>	
14:25 - 14:40		Microsatellite genetic structure in Quercus robur complex in south-eastern Romania	Alexandru Lucian Curtu (Romania)
14:40 - 14:55		What do we learn from pot experiments in the greenhouse?	Doris Krael (Germany)
14:55 - 15:10		Genetic structure of scattered natural populations of scots pine (Pinus sylvestris L.) in the Romanian Carpathians	Elena Ciocîrlan (Romania)
15:10 - 15:25		Testing of the narrow-crowned Norway spruce ideotype (Picea abies f. pendula) in multisite comparative trials	Ecaterina Nicoleta Apostol (Romania)
15:25 - 15:40		Carbon dynamics modeling in forest soils under two clonal varieties of Eucalyptus globulus as an environmental tool for CO2 offset management	Irene Fernandez (Spain)
15:40 - 15:55		Adaptive genetic potential and the impact of the climate changes on forest tree species: a case study on Norway spruce in Romania	Georgeta Mihai (Romania)
15:55 - 16:10		Combined syntaxonomic, dendroecological and genetic analysis of two close but distinct silver fir forest stands in Banat Mountains (Western Romanian Carpathians)	József Pál Frink (Romania)
16:10 - 16:25		Genetic diversity in Norway spruce (Picea abies) seed orchards in Romania	Elena Ciocîrlan (Romania)
16:25 - 17:00	Coffee Break		
17:00 - 17:15		Preservation of genetic resources of Quercus robur L. and Quercus petraea (Matt.) Liebl. Throw in vitro culture	Lucia Ioniță (Romania)
17:15 - 17:30		Chloroplast DNA polymorphism of oriental hornbeam (Carpinus orientalis Mill.) in the Balkan Peninsula and the Black Sea region	Flaviu Popescu(Romania)
S5 - Forest pests, diseases and their ecological and socio-economic consequences - Basarabia Hall (Section IV, Ground Floor)			
	Chairs	Dănuț Chira, "Marin Drăcea" INCDS (Romania) Thomas Cech, Austrian Research Centre For Forests (Austria)	
14:00 - 14:25	Keynote Speaker	Thomas Cech (Austria): <i>Invasive pathogens of trees – increasing threats to Central and Eastern European woodland ecosystems, challenges for authorities, forest management and the society</i>	
14:25 - 14:40		Tracking the associations of tree-pathogenic fungi and insect vectors in space and through time	Angelina Ceballos-Escalera (UK)
14:40 - 14:55		Acute oak decline in Britain, and the role of Agrilus biguttatus	Daegan Inward (UK)
14:55 - 15:10		Geographical distribution of three forest invasive beetle species in Romania	Nicolai Olenici (Romania)
15:10 - 15:25		On the biological control of forest pests by using predator and parasitoid insects in Turkey	Sabri Ünal (Turkey)
15:25 - 15:40		Difference and similarities among forest invasive fungi	Dănuț Chira (Romaina)
15:40 - 15:55		Isolation of pathogenic bacteria of the predator beetle Calosoma sycophanta (coleoptera:carabidae)	Mustafa Yaman (Turkey)
15:55 - 16:10		Phoretic mites associated with Ips typographus from Central Romania	Marius Paraschiv (Romania)
16:10 - 16:25		Bark and ambrosia beetle species on pubescent oak (Quercus pubescens Willd.) in forests of Afyonkarahisar region, Turkey	Oğuzhan Sarikaya (Turkey)
16:25 - 17:00	Coffee Break		
17:00 - 17:15		Entomophaga maimaiga and Entomophaga aulicae - powerful protectors of vitality and health of deciduous forests in Republic of Serbia	Mara Tabaković-Tošić (Serbia)

17:15 - 17:30	Forest pest, Colestra cuperata (poplar defoliator): diseases and its management	Rashmi Sehrawat (India)
17:30 - 17:45	Neurostresspep: novel control agents for an old problem.	Ioan Andrei Manea (UK)
17:45 - 18:00	New solutions for integrated pathogen control in forest cultures in the current climatic context	Dănuț Chira (Romania)

S6 - Bridging science and decision-making for monitoring ozone harm to forests - Ambassador Auditorium (Section II, Mezzanine)

	Chairs	Elisa Carrari, Italian National Research Council - CNR (Italy) Elena Paoletti, Italian National Research Council - CNR (Italy)	
14:00 - 14:25	Keynote Speaker	Elena Paoletti (Italy): Challenges in monitoring the stomatal ozone fluxes at forest sites: lessons from the LIFE project MOTTLES	
14:25 - 14:40		Derivation of flux-based critical levels for European forest protection against ozone and the national emission ceilings directive implementation	Pierre Sicard (France)
14:40 - 14:55		Forest ozone risk assessment over Europe by regional modeling approach: new updates	Alessandra De Marco (Italy)
14:55 - 15:10		3D ozone face as a basic device for the parameterization of tree forest species and the validation of visible foliar ozone injury	Yasutomo Hoshika (Italy)
15:10 - 15:25		Carbon, nitrogen and phosphorus stoichiometry of Quercus species under ozone and water stress	Elisa Carrari (Italy)
15:25 - 15:40		Assessment on ozone foliar injury on French MOTTLES plots: correlation with ozone levels and sensitivity of species - comparison with results on national plots	Marie-Lyne Ciriani (France)
15:40 - 15:55		Tree growth monitoring under changing environment: effect of ozone pollution on intra annual stem growth dynamic of O3 sensitive species	Alessio Giovannelli (Italy)
15:55 - 16:10		Data management, validation and ozone flux calculation in MOTTLES network	Ionel Popa (Romania)
16:25	Coffee Break		

S7 - Earth-Observation for forest monitoring and forecasting - Dobrogea Hall (Section II, 2nd Floor)

	Chairs	Mihai Tănase, "Marin Drăcea" INCDS; Faculty of Science, School of Ecosystem and Forest Sciences, The University of Melbourne (Australia) Robert Kennedy, Oregon State University (USA)	
14:00 - 14:25	Keynote Speaker	Robert Kennedy (USA): Forests in the cloud: Monitoring change with Google's Earth Engine	
14:25 - 14:40		Towards an integrated monitoring system from earth-observation data for the Romanian forests	Mihai Tănase (Australia)
14:40 - 14:55		Forest cover extraction using remote sensing in the Southern Carpathians	Ignacio Borlaf Mena (Spain)
14:55 - 15:10		Assessing the performance of various machine learning algorithms for forest disturbance mapping	Ionuț Șandric (Romania)
15:10 - 15:25		Exploring spectral, angular and height information from Ziyuan 3 satellite data to steer forest inventories	Thomas Schneider (Germany)
15:25 - 15:40		Field Map system and Terrestrial Laser Scanning – data collections methods comparison for forest inventory	Bogdan Apostol (Romania)
15:40 - 15:55		Retrieval of forest structural parameters from single terrestrial laser scans	Alexandru-Claudiu Dobre (Romania)
15:55 - 16:10		Understanding forest structural diversity through Terrestrial Laser Scanning	Ionuț-Silviu Pascu (Romania)
16:10 - 16:25		Monitoring and modeling of urban forests cover and its effect on air quality and human health in National Capital Territory of Delhi (India)	Manish Kumar (India)
16:25 - 16:40		Temporal variability of soil moisture at different level soil depths from six years of records in three different stand types	Vlad Crișan (Romania)
16:40	Coffee Break		

20:00 - 23:00 **Conference Dinner** **Byzantine Hall, National Military Circle Palace – 1-3, Constantin Mille Street, 030167, Bucharest, Romania**

Thursday, September 20

Chamber of Commerce and Industry of Romania (CCIR Business Center) - 2, Octavian Goga Blvd, 030982, Bucharest, Romania

9:00 - 10:00	Poster Presentation - Exhibition Lobby
10:00 - 10:30	Coffee Break - Al. I. Cuza Lobby (Section II, 4th Floor)
10:30 - 12:00	Plenary session - Al. I. Cuza Auditorium (Section II, 4th Floor) Chair Ovidiu Badea, "Marin Drăcea" INCDS (Romania) Conclusions of the Thematic Sessions (Chairs of the Thematic Sessions) Publications
12:00 - 13:30	Lunch - Aurel Ghibutiu Hall (Section IV, 1st Floor)
14:30 - 21:00	Excursion - Departure from International Hotel - 27, Căuzași Street, 030167, Bucharest, Romania") (<u>Field trip</u> or <u>Bucharest city tour</u>)

Friday, September 21

Romanian National Institute for Research and Development in Forestry "Marin Drăcea" - 128, Eroilor Blvd., 077190, Voluntari City, Ilfov County, Romania

9:30 - 11:30	Anniversary Event - "Marin Drăcea" INCDS - 85 Years of Activity
11:30 - 14:00	Brunch
14:00	End of Conference and departure