

90y FRI-BAS Programme outline

Day/ Time	24-Oct Wednesday			
8:30	Registration			
9:00				
9:30	Opening and Welcome address			
10:00	Keynote presentations	Al. Aleksandrov - Introductory speech		
10:25		John Innes - "Forests and climate: How do we plan for what we do not know?"		
10:50	Coffee break			
11:20	Keynote presentations	Alain Roques - "Past insect invasions in Europe and future trends in relation with global change"		
11:45		Gavriil Xanthopoulos "Preparing for forest fires in Mediterranean countries under Global Change scenarios"		
12:10		Paolo Cherubini - "Dendroecology: The use of tree rings in forest ecology to provide solutions to forest management"		
12:30	Lunch break			
13:00				
13:30				
14:00	T1. Forestry and engineering, Ecosystem management and Natural Resources Policy	T2. Forests, Soil and Water Interactions	T3. Forests, Climate change and Risk Processes	T5. Biodiversity, Forest Health and Biological Invasions
14:30				
15:00				
15:30				
16:00	Coffee break			
16:30	T1. Forestry and engineering, Ecosystem management and Natural Resources Policy	T2. Forests, Soil and Water Interactions	T3. Forests, Climate change and Risk Processes	T5. Biodiversity, Forest Health and Biological Invasions
17:00				
17:30				
18:00				
18:30				
19:00	Reception cocktail & Dinner			
21:30				

90y FRI-BAS Programme outline

Day/ Time	25-Oct Thursday				26-Oct Friday
8:30					08:00 - 18:00 Excursion
9:00	T1. Forestry and engineering, Ecosystem management and Natural Resources Policy	T5. Biodiversity, Forest Health and Biological Invasions	T4. Silviculture and Forest Genetic Resources management	T6. Ecosystem services, monitoring and interdisciplinary research	
9:30					
10:00					
10:25	<i>Coffee break</i>				
10:50	T1. Forestry and engineering, Ecosystem management and Natural Resources Policy	T3. Forests, Climate change and Risk Processes	T4. Silviculture and Forest Genetic Resources management	T6. Ecosystem services, monitoring and interdisciplinary	
11:20					
11:45					
12:10					
12:30					
13:00	<i>Lunch break</i>				
13:30					
14:00	Poster session				
14:30					
15:00	<i>Coffee break</i>				
15:30	Round Table - summary of sessions				
16:00					
16:30					
17:00	Adjourning				
17:30					
18:00					
18:30					
19:00					
21:30					

T1. Forestry engineering, Ecosystem management and Natural Resources Policy

24.10.2018 Sofia Hall

Session 1	
Forestry engineering, Ecosystem management and Natural Resources Policy Chairs: Yonko Dodev, Mira Georgieva	
14.00 - 14.15	W.S. SHIN <i>Paradigm shift on forest utilization in Korea</i>
14.15 - 14.30	A. ALEKSEEV, K. GADOW <i>Long rotation forestry: extent for Boreal zone and special conditions for planning and design</i>
14.30 - 14.45	Y. DODEV, G. POPOV, I. MARKOFF, P. GLOGOV, S. MADZHOV <i>Silvicultural conception for sustainable management of forests of Oriental hornbeam (<i>Carpinus orientalis</i> Mill.)</i>
14.45 - 15.00	M. GEORGIEV <i>Forestry analysis of the conditions of the environment of the white pine crops (<i>Pinus sylvestris</i> L.) in Kraishtensko - Ihtiman forest-growing sub-area</i>
15.00 - 15.15	M. ÖZDEMİR, H. BÜYÜK <i>Silvicultural strategies for emerging problems and conversion of oak forests in Turkey</i>
15.15 - 15.30	A. HAMIDIAN <i>Forest and rangeland management using indigenous ecological knowledge, a case study of Barzok District</i>
15.30 - 15.45	M. STOYANOVA <i>Essential oils from coniferous species in Bulgaria</i>
15.45 - 16.00	R. PETRIN <i>General regularities in the height structures of hungarian-oak, durmast and turkey-oak dendrocoenoses</i>
16.00 - 16.30	Coffee break
Session 2	
Forestry engineering, Ecosystem management and Natural Resources Policy Chairs: Sotir Glushkov, Svetozar Madzhov	
16.30 - 16.45	S. GLUSHKOV, I. MARKOFF, S. STOYANOV <i>Mechanized timber harvest in declined pine plantations</i>
16.45 - 17.00	K. STEFANOV, K. MARINOV, D. PEEV, D. GEORGIEV <i>Exploitation research of machine for loading of wood</i>
17.00 - 17.15	S. MADZHOV, Y. DODEV, G. POPOV, P. GLOGOV <i>Requirements for diagnostic parameters for the technical condition of machinery</i>
17.15 - 17.30	K. MARINOV, K. STEFANOV <i>Operation performance of forestry milling brush cutters for poplar clearings cleaning</i>
17.30 - 17.45	D. PEEV <i>Particle size and quality of wood chips from Scots pine (<i>Pinus sylvestris</i> L.) wood, yielded with mobile chippers</i>
17.45 - 18.00	S. GLUSHKOV, E. VELIZAROVA, S. STOYANOV, V. CHAKUROV, I. MARKOFF, V. TRINGOVSKA <i>Chipping of biomass from urban areas with small wood chippers</i>
19.00 - 21.00	Reception cocktail

T1. Forestry engineering, Ecosystem management and Natural Resources Policy

25.10.2018 Sofia Hall

Session 3	
Forestry engineering, Ecosystem management and Natural Resources Policy Chairs: Hristo Tsakov, Angel Ferezliev	
09.00 - 09.15	H. TSAKOV, A. FERZLIEV, A. DELKOV, H. HRISTOVA <i>Thickness structure of Macedonian pine (Pinus peuce Gris.) plantations growing in the Vitosha mountain</i>
09.15 - 09.30	A. FERZLIEV, K. KAROV, N. ZAFIROV, Y. DODEV <i>Comparative study of the height and volume structure of Douglas fir (Pseudotsuga menziesii (Mirb.) Franco) forest plantations in State Forestry Alabak, Velingrad</i>
09.30 - 09.45	I. MARKOFF, T. TONCHEV, G. POPOV, Y. DODEV <i>A casting for growth tables for Bulgarian tree species based on inventory data</i>
09.45 - 10.00	T. TONCHEV, I. DOBRICHOV, Y. IVANOV, Y. PORYAZOV <i>Structure and stocking control of uneven-aged coniferous stands in Bulgaria</i>
10.00 - 10.15	A. FERZLIEV, H. TSAKOV, H. HRISTOVA <i>Horizontal structure and peculiarities in diameter structure of Fagus moesiaca (Maly) Czecz. Plantations in Shumensko plateau</i>
10.15 - 10.30	N. ALEXANDROV, T. TONCHEV, E. MOLLE <i>Optimal rotation ages of coppice oak stands in Bulgaria</i>
10.30 - 11.00	Coffee break
Session 4	
Forestry engineering, Ecosystem management and Natural Resources Policy Chairs: Grud Popov, Yonko Dodev	
11.00 - 11.15	I. MARKOFF, G. POPOV, Y. DODEV, P. GLOGOV <i>Climate change and its impact on the oak coppices in North central Bulgaria</i>
11.15 - 11.30	K. KARAMFILOV, I. MARKOFF <i>The use of sampling techniques to improve traditional inventories in Bulgaria, first steps and prospects</i>
11.30 - 11.45	A. HAMIDIAN <i>Toward Sustainable Management of Miankaleh Biosphere Reserve</i>
11.45 - 12.00	V. YAROTSKIY, V. PASTERNAK, V. NAZARENKO <i>Phitomass and mortmass assessment in pine forests of left bank forest steppe of Ukraine</i>
12.00 - 12.15	A. TODOROV, G. ZHELEZOV <i>Productivity of the landscape in the region of Kraiste between rivers Bistritsa and Konska</i>
12.15 - 12.30	Y. DODEV, G. POPOV, I. MARKOFF, A. FERZLIEV <i>European experience in managing of coppice with standards and its prospects in Bulgaria</i>
12.30 - 12.45	R. PETRIN <i>Thickness structure of seed-tree hungarian-oak, durmast and cerris oak dendrocoenoses</i>
12.45 - 13.00	D. N. DIMITROV, V. ILINKIN, M. GEORGIEVA, G. HINKOV <i>Damages to beech forests caused by timber harvesting on the territory of Berkovitsa state forestry</i>
13.00 - 14.00	Lunch

T2. Forests, Soil and Water Interactions

24.10.2018 Rome Hall

Session 5	Forests, Soil and Water Interactions Chairs: Milena Kercheva, Rositsa Yaneva
14.00 - 14.15	M. KERCHEVA, E. DIMITROV, K. DONEVA, E. VELIZAROVA, M. GLUSHKOVA, I. MOLLA, T. SHISHKOV <i>Soil water retention characteristics of forest soils under different land use</i>
14.15 - 14.30	M. BAZGIR, M. CARNOL <i>C and N cycling in the forest floor under 7 tree species</i>
14.30 - 14.45	M. ZHIYANSKI <i>Carbon storage in soils from Pleven district regarding the level of anthropogenic pressure</i>
14.45 - 15.00	D. SARI, S. İNCECIK, N. ÖZKUT <i>Assessing the high ozone levels over the forest area of Biga Peninsula in Turkey</i>
15.00 - 15.15	G. FROLOVA, P. FROLOV, N. IVANOVA, V. SHANIN <i>Analysis of competitive interactions between undergrowth and ground layer vegetation in pine forests of the European part of Russia</i>
15.15 - 15.30	M. NIKOLOVA, S. NEDKOV <i>Urban green infrastructure for climate change adaptation: an integrated assessment of the regulating ecosystem services in Karlovo, Bulgaria</i>
15.30 - 15.45	R. YANEVA, M. ZHIYANSKI, Y. DODEV <i>Integrated approach for mapping the capacity of ecosystems to mediate toxic elements in forests</i>
16.00 - 16.30	Coffee break
Session 6	Forests, Soil and Water Interactions Chairs: Vanya Kachova, Rositsa Yaneva
16.30 - 16.45	A. SINGH <i>Functional attributes of planted woody species on coal mine spoil for ecological restoration in a dry tropical environment, India: an implication for C management in a changing Environment</i>
16.45 - 17.00	V. KACHOVA, E. POPOV, G. HINKOV <i>Agroforestry riparian plantations with <i>Populus. sp.</i> and soil quality improvement</i>
17.00 - 17.15	E. DIMITROV, M. KERCHEVA, K. DONEVA, E. VELIZAROVA, M. GLUSHKOVA, I. MOLLA, T. SHISHKOV <i>Saturated hydraulic conductivity of forest soils under different land use</i>
17.15 - 17.30	M. ZHIYANSKI, M. SOKOLOVSKA, M. GLUSHKOVA <i>Chemical characterization of Cambisols under different land-uses in highland region of Rila Mountain, Bulgaria</i>
17.30 - 17.45	E. VANGUELOVA, R. PITMAN, S. BENHAM <i>Long term trends and effects of nitrogen inputs on forests and soils in the UK</i>
17.45 - 18.00	E. VANGUELOVA <i>What is the capacity and potential for carbon sequestration in forest soils in the UK?</i>
19.00 - 21.00	Reception cocktail & Dinner

T3. Forests, Climate change and Risk Processes

24.10.2018 Brussels Hall

Session 7	Forests, Climate change and Risk Processes Chairs: Tsvetan Zlatanov, Dimitar Dimitrov
14.00 - 14.15	W. BECK, T. ZLATANOV <i>How does altitude modify climate-growth-relationships in common beech (<i>Fagus sylvatica</i>) forests on the Western Balkan Range and Belasitsa Mountain?</i>
14.15 - 14.30	G. KOSTOV, N. ALEXANDROV, K. KOLEV <i>Regional silvicultural systems for management of oak coppice forests in West Bulgaria</i>
14.30 - 14.45	M. PANAYOTOV, N. TSVETANOV, E. TSAVKOV, G. GOGUSHEV <i>Historical data on disturbances in mountain coniferous forests in Bulgaria and implications for the risk for forest damages</i>
14.45 - 15.00	D. DIMITROV, N. ZAFIROV, T. POPOVA, H. POPOV, S. MIRTCHEV, S. TORBATOV, V. KATSAROVA, I. BORISOVA-KATSAROVA, L. VAGALINSKI <i>Taxonomical status and tree-ring chronology building of timber excavated from different archaeological locations in Bulgaria</i>
15.00 - 15.15	N. ZAFIROV, G. KOSTOV <i>Main stress factors in coppice oak forests in Western Bulgaria</i>
15.15 - 15.30	M. PANAYOTOV, E. TSAVKOV, N. TSVETANOV, S. TOSHEV, S. YURUKOV <i>Dendrological and tree-ring analysis of 100 years of growth of local and introduced coniferous tree species in Kniazevska kultura forest near Sofia</i>
15.30 - 15.45	D. DIMITROV, N. ZAFIROV, A. DELKOV, S. MIRCHEV, E. PAVLOVA-TRAYKOVA <i>Dendrochronology of 358-year-old beech stand (<i>Fagus sylvatica</i> L.) from tree-line zone, Balkan Range Mt., Bulgaria</i>
16.00 - 16.30	Coffee break
Session 8	Forests, Climate change and Risk Processes Chairs: Ivan Marinov, Eli Pavlova-Traykova
16.30 - 16.45	I. MARINOV, E. PAVLOVA-TRAYKOVA <i>Flooding risk assessment in connection with ecosystem services in Smolyan region, Bulgaria</i>
16.45 - 17.00	I. BLINKOV, A. TRENDAFILOV, I. MINCHEV <i>Erosion hot-spots in the Skopje Region</i>
17.00 - 17.15	E. PAVLOVA-TRAYKOVA <i>Evaluation of water erosion risk in Bistritsa River watershed, Southwest Bulgaria</i>
17.15 - 17.30	I. FERNANDEZ, A. CABANEIRO <i>Temperature-induced changes in humus quality and $\delta^{13}C$ signatures as a proxy indicator of soil burn intensities after forest wildfires</i>
17.30 - 17.45	I. BUKSHA, T. PYVOVAR, M. BUKSHA, V. PASTERNAK <i>Impact of drought on the forest vegetation in Eastern Ukraine: the long-term prognoses and adaptation measures</i>
19.00 - 21.00	Reception cocktail

T3. Forests, Climate change and Risk Processes

25.10.2018 Brussels Hall

Session 9 Forests, Climate change and Risk Processes Chairs: Emiliya Velizarova, Lora Stoeva	
09.00 - 09.15	I. MARINOV <i>Soil erosion in mountain regions of Bulgaria: permanent field researches and risk assessment</i>
09.15 - 09.30	E. PAVLOVA-TRAYKOVA, I. MARINOV <i>Evaluation of water erosion risk in Dzhubrena River watershed</i>
09.30 - 09.45	L. KIROVA, M. ZHIYANSKI <i>Carbon accumulation in soils under different land uses in Bulgaria – case study Central Balkan Mountains</i>
09.45 - 10.00	L. STOEVA, I. MARKOFF <i>Establishing Forest Reference Level of Bulgaria for the period 2021-2025 – approaches used, interpretations, definitions and challenges</i>
10.00 - 10.15	E. VELIZAROVA, P. ZHELEV, I. MOLLA <i>Vegetation restoration in fire-affected forests</i>
10.15 - 10.30	L. MALINOVA, K. PETROVA, P. KARMAZOVA <i>Results of soil monitoring in the Western Balkan Mountain</i>
10.30 - 11.00	Coffee break

T4. Silviculture and Forest Genetic Resources management

25.10.2018 Madrid Hall

Session 10	Silviculture and Forest Genetic Resources management Chairs: Emil Popov, Tatiana Stankova
09.00 - 09.15	A. LATINI, D. LACHANCE, M-J MORENCY, G. PELLETIER, D. STEWART, P. LABRIE, P. TANGUEY, S. REGAN, A. SÉGUIN <i>Activation tagging in poplar: identification of new phenotypes from a field trial in Québec</i>
09.15 - 09.30	V. GYULEVA, T. STANKOVA, M. ZHIYANSKI, E. ANDONOVA <i>Five years growth of Paulownia on two sites in Bulgaria</i>
09.30 - 09.45	E. POPOV, G. HINKOV, I. VELICHKOV, T. ZLATANOV, P. STEFANOVA <i>Productivity of experimental and industrial Douglas fir (<i>Pseudotsuga Menziesii</i> (Mirb. franco) plantations in Bulgaria</i>
09.45 - 10.00	A. KHOLODNA <i>Cultivation of willow on degraded soils of the Left Bank Forest-Steppe of Ukraine as a factor of improving of their ecological properties</i>
10.00 - 10.15	N. SOLOMAKHA, T. KOROTKOVA <i>Experience of reforestation of artificial oak forests in the southeast of Ukraine</i>
10.15 - 10.30	G. P. GEORGIEV <i>Ecological requirements of rare forest tree species in the region of Eastern Balkan range</i>
10.30 - 11.00	Coffee break
Session 11	Silviculture and Forest Genetic Resources management Chairs: Veselka Gyuleva, Maria Glushkova
11.00 - 11.15	V. GYULEVA, M. ZHIYANSKI, T. STANKOVA, M. GLUSHKOVA, E. ANDONOVA <i>Clone differences in the root biometry of hybrid black poplar</i>
11.15 - 11.30	G. FROLOVA, P. FROLOV, I. PRIPUTINA <i>Growth of young artificial stands Scots pine (<i>Pinus sylvestris</i> L.) in the south Moscow Region</i>
11.30 - 11.45	G. SPYROGLOU, D. ZIANIS, K. RADOGLOU <i>Leaf area and foliar weight to sapwood cross sectional area models for <i>Quercus frainetto</i> (Ten.) in Greece</i>
11.45 - 12.00	G. GEORGIEVA, N. CHIPEV <i>Regenerative and adaptive potential of Oriental beech (<i>Fagus orientalis</i> Lipsky) forests in Strandzha Mountain</i>
12.00 - 12.15	M. TANDOĞAN, V. ASLAN, M. ÖZDEMİR <i>The effects of different humic acid applications on the germination of the Pin oak (<i>Quercus palustris</i>)</i>
12.15 - 12.30	M. IOTTI, M. LEONARDI, F. ORI, A. ZAMBONELLI, G. PACIONI <i>Edible ectomycorrhizal mushrooms: a promising resource for agroforestry</i>
12.30 - 12.45	P. DIMITROVA, K. KALMUKOV <i>Dynamics of growth parameters of plantations from half-sibs progenies of selected <i>Robinia pseudoacacia</i> L. clones in young age</i>
12.45 - 13.00	P. PANAYOTOV, K. KALMUKOV, M. PANAYOTOV <i>Quality of Locust tree wood (<i>Robinia pseudoacacia</i> L. Var. <i>rectissima</i> Raber.)</i>
13.00 - 14.00	Lunch

T5. Biodiversity, Forest Health and Biological Invasions

24.10.2018 Madrid Hall

Session 12	
Biodiversity, Forest Health and Biological Invasions Chairs: Daniela Pilarska, Plamen Glogov	
14.00 - 14.15	P. GLOGOV, D. PAVLOVA, M. GEORGIEVA, Y. DODEV <i>Invasive alien species in the flora of the Lozenska Mountain</i>
14.15 - 14.30	A. SINGH <i>Biodiversity development under selected native woody plantations on coalmine spoil in a dry tropical region of India: A case study</i>
14.30 - 14.45	S. KAVILEVEETIL <i>European plants invasive in the Asia-Pacific region: an appraisal</i>
14.45 - 15.00	D. ZLATANOVA, I. STEPANOV, E. POPOVA, A. AHMED, R. ANDREEV, P. GENOV <i>Preliminary data from red deer (<i>Cervus elaphus</i> L.) GPS/GSM telemetry in Bulgaria</i>
15.00 - 15.15	I. PETROV <i>90 years Forest Research Institute - BAS, 70 years research in Hunting Economy</i>
15.15 - 15.30	D. PILARSKA, G. GEORGIEV, M. DOBREVA, D. TAKOV, P. MIRCHEV, D. DOYCHEV, M. GEORGIEVA, R. NACHEV, P. DERMENDZHIEV, S. DRAGANOVA, A.E. HAJEK <i>Pathogens and parasitoids of forest pest insects in the region of Forest protection station Plovdiv (Bulgaria) during 1995 – 2017</i>
15.30 - 15.45	K. SOTIROVSKI, K. SREBROVA, M. RISTESKI <i>Are hardly visible stromata (“micro-stromata”) in callused cankers additional means of persistence and dissemination of hypovirulence within populations of the chestnut blight fungus <i>Cryphonectria parasitica</i>?</i>
15.45 - 16.00	E. FILIPOVA, M. GEORGIEVA <i>Distribution and impact of <i>Cryphonectria parasitica</i> (Murr.) Barr. causing chestnut blight disease on <i>Castanea sativa</i> Mill. in Bulgaria</i>
16.00 - 16.30	Coffee break
Session 13	
Biodiversity, Forest Health and Biological Invasions Chairs: Plamen Mirchev, Margarita Georgieva	
16.30 - 16.45	D. DAMIANOV, V. GEORGIEV <i>Age changes in the growth of lower canine teeth of wild boar (<i>Sus scrofa</i>) males</i>
16.45 - 17.00	P. MIRCHEV, G. GEORGIEV, G. ZAEMDZHKOVA, M. GEORGIEVA, M. MATOVA <i>Impact of parasitoids on egg mortality of pine processionary moth in new habitats</i>
17.00 - 17.15	G. ZAEMDZHKOVA, I. MARKOFF, P. MIRCHEV, G. GEORGIEV, M. GEORGIEVA, R. NACHEV, M. ZAIKOVA, M. DOBREVA <i>The expansion of pine processionary moth (<i>Thaumetopoea pityocampa</i>) in Bulgaria – zone and rate</i>
17.15 - 17.30	G. GEORGIEV, D. DOYCHEV, P. TOPALOV, G. ZAEMDZHKOVA, V. SAKALIAN <i>New hosts of xylophagous longhorn beetles (Coleoptera: Cerambycidae) in Bulgaria</i>
17.30 - 17.45	P. TOPALOV <i>A check list and arealography of longhorn beetles (Coleoptera: Cerambycidae) in Vitosha Mountain</i>
17.45 – 18.00	M. GEORGIEVA, S. HLEBARSKA, M. DOBREVA, R. NACHEV, P. DERMENDZHIEV, P. TERZIEV <i>New invasive needle blight pathogens on <i>Pinus</i> spp. in Bulgaria</i>
19.00 - 21.00	Reception cocktail

T5. Biodiversity, Forest Health and Biological Invasions

25.10.2018 Brussels Hall

Session 14	
Biodiversity, Forest Health and Biological Invasions	
Chairs: Georgi Georgiev, Gergana Zaemdzhikova	
11.00 - 11.15	S. RUSEVA, A. PENCHEVA <i>A Survey of Scale Insects (Hemiptera: Coccoidea), infecting Cupressaceae family in Bulgaria</i>
11.15 - 11.30	G. ZAEMDZHIKOVA, P. MIRCHEV, G. GEORGIEV <i>Economically important insect pests in Bulgarian forestry during the period 2003 - 2017</i>
11.30 - 11.45	P. MIRCHEV, G. GEORGIEV, M. GEORGIEVA, G. TSANKOV, G. ZAEMDZHIKOVA, M. MATOVA <i>Assessing pine processionary moth (<i>Thaumetopoea pityocampa</i>) unfertilized eggs in different localities in Bulgaria</i>
11.45 - 12.00	S. RUSEVA, A. PENCHEVA <i>Pest status of <i>Ovalisia (Palmar) festiva</i> (Linnaeus, 1767) (Coleoptera: Buprestidae) in Bulgaria</i>
12.00 - 12.15	S. BELILOV <i>Xylophagous insects in pine (<i>Pinus</i> spp.) plantations in the Ichtimanska Sredna Gora Mountain</i>
12.30 - 13.30	Lunch

T6. Ecosystem services, monitoring and interdisciplinary research

25.10.2018 Rome Hall

Session 15	
Ecosystem services, monitoring and interdisciplinary research Chairs: Svetla Bratanova-Doncheva, Nikolina Gribatcheva	
09.00 - 09.15	W.S. SHIN, S.H. PARK <i>Measuring users' health benefits from three healing forests in Korea</i>
09.15 - 09.30	N. GRIBACHEVA, G. GECHEVA, R. YANEVA <i>Moss monitoring of atmospheric deposition in Western Rhodopes, Bulgaria</i>
09.30 - 09.45	S. PETEVA, M. LYUBENOVA <i>Urban tree management and ecosystem services in the town of Sevlievo</i>
09.45 - 10.00	O. TRAPEZNIKOVA <i>Transformations of forest and field land use within the East European plain during the last 230 years</i>
10.00 - 10.15	P. FROLOV, G. FROLOVA, V. SHANIN, E. ZUBKOVA <i>Analysis of reaction of the Vaccinium myrtillus populations to the external influences by methods of simulation modeling</i>
10.15 - 10.30	S. BRATANOVA-DONCHEVA <i>The MAES Process in Bulgaria – next steps and new challenges</i>
10.30 - 11.00	Coffee break
Session 16	
Ecosystem services, monitoring and interdisciplinary research Chairs: Stoyan Nedkov, Bilyana Borissova	
11.00 - 11.15	E. IVANOVA <i>Potentiality of the remote sensing technics for quantifying carbon stock of forest ecosystems in Bulgaria</i>
11.15 - 11.30	M. ASENOVA, Y. IVANOV, V. KARAKIYA <i>GIS-based approach to updating the database of old growth trees in Sofia</i>
11.30 - 11.45	S. NEDKOV <i>Mapping and assessment of ecosystem services in Bulgaria at multiple scales</i>
11.45 - 12.00	A. GIKOV <i>Mapping forest dynamics in key area "Bogdaia" (Northwestern Rila Mountain) during 50 years period</i>
12.00 - 12.15	A. ASSENOV, B. BORISSOVA, K. VASSILEV, B. GRIGOROV <i>The protective forest belts in Dobrudzha and their role in nectar corridors</i>
12.15 - 12.30	M. PANAYOTOV, M. ASENOVA, N. TSVETANOV <i>Parameters of old-growth beech and fir-spruce-beech forests inferred from orthoimages, satellite data, and terrain analysis</i>
12.30 - 12.45	L. TRICHKOV, K. TASHEV <i>Mapping and assessment of forest ecosystem types, their condition and the ecosystem provided by forest territories out of Natura 2000 sites</i>
12.45 - 13.00	I. MARKOFF, K. KARAMFILOV, G. POPOV <i>Clustering of sample plots - a case study in conifer forests in Bulgaria relevant to the design of a national inventory of forests</i>
13.00 - 14.00	Lunch