50th International Symposium on Forestry Mechanization Braşov, Romania, 25th – 29th September 2017 www.formec.ro

CONFERENCE PROGRAMME

25/09/2017	Registration & Icebreaker [Hotel ARO Palace]		
17:00 - 19:00	Registration		
19:00 - 22:00	Icebreaker		
26/09/2017	Conference Day 1 [AULA "Sergiu T. Chiriacescu" - UNITBV]		
08:00 & 08:30	Guided walk from Hotel ARO Palace to AULA "Sergiu T. Chiriacescu" (Optional)		
08:00 - 09:00	Registration		
	Opening Ceremony - Welcome by: [Room: Aula Magna]		
	Rector, Transilvania University of Braşov		
	Univ.prof.dr. Ioan Vasile ABRUDAN		
	Dean, Faculty of Silviculture and Forest Engineering (Braşov)		
09:00 - 09:30	Univ.prof.dr. Alexandru Lucian CURTU		
	Vice-Dean, Faculty of Silviculture and Forest Engineering (Braşov) & Head of Organizing Committee		
	Univ.prof.dr. Stelian Alexandru BORZ		
	Head of Organizing Committee of FORMEC 2018 in Madrid (Spain)		
	Univ.prof.dr. Eduardo TOLOSANA ESTEBAN		
	Plenary Session I - Keynote Speakers [Room: Aula Magna]		
09:30 - 10:30	A0		
	Moderator: Stelian Alexandru BORZ		
	50th FORMEC Anniversary: achievements and perspectives for excellence in forest engineering RDI - <i>Univ.prof.dr. Karl STAMPFER</i>		
	(Head of Department of Forest and Soil Sciences, BOKU, Vienna)		
(3 x 20 min)	Forest Engineering Systems: history and future - Univ.prof.dr. Hans Rudolf HEINIMANN		
(0 × 20 mm)	(Department of Environmental Systems Science, Institute for Terrestrial Ecosystems, ETH Zürich)		
	CROJFE: achievements, excellence and future trends in forest engineering research - <i>Univ.prof.dr. Tibor PENTEK</i>		
	(University of Zagreb, Faculty of Forestry, Croatian Journal of Forest Engineering - CROJFE, Chief Editor)		
10:30 - 11:00	Coffee Break [Main Hall]		
11:00 - 13:00	Plenary Session II - Keynote Speakers [Room: Aula Magna] Moderator: <i>Stelian Alexandru BORZ</i>		
	EIB in action: realising the commercial and environmental potential of forest resources - <i>Dr. Hans-Harald JAHN</i>		
	(European Investment Bank, PJ/ETD/AGRUDEV, Head of Division)		
	Vision 2030 & RDI Agenda for the European Forest-based Sector - <i>Mr. Johan ELVNERT</i>		
	(European Forest-based Sector Technology Platform - FTP, Managing Director)		
(4 x 30 min)	EU Forest Strategy: increasing forest value chain competitiveness - Mr. Jeremy WALL		
	(European Commission, DG GROW / Forest-based & Related Industries, Principal Administrator)		
	Strategic Agenda 2020 for the Romanian State Forests Management - Mr. Ciprian PAHONŢU		
	(National Forest Administration - ROMSILVA, General Director)		
13:00 - 14:30	Lunch Break [Main Hall]		
14:30 - 15:00	Poster Session I [Room: Aula "Sergiu T. Chiriacescu" - Main Hall]		









	Session - [Room: U I 3]	Session - [Room: U I 6]	Session - [Room: U I 2]
	A1	B1	C1
15:00 – 17:00	New trends	Towards bioeconomy	How much better?
	Cutting edge technology	Biomass & Bioenergy	Performance of harvesting systems I
	Moderator: Adrian Enache	Moderator: <i>Raffaele Spinelli</i>	Moderator: <i>Jörn Erler</i>
	Automated Volumetric Measurement of Truckloads Through Multi-View Photo- grammetry and 3D Image Processing Soft- ware - Mauricio Acuna	1.Dynamic Simulation of Bioenergy Facility Locations in GIS Environment - <i>Mika Aalto</i> , <i>Olli-Jussi Korpinen, Tapio Ranta</i>	Comparison of Different Scaling Methods of Harvester - Processed Timber - Jiri Dvorak, Martin Chytry, Pavel Natov
	2. Application of Laser Rangefinders in Forestry Surveys - <i>Tamás Bazsó, Péter Primusz</i>	2. Determining Chipper Maintenance Cost as a Function of Chipper Type, Age and Annual Use - Raffaele Spinelli, Natascia Magagnotti, Lars Eliasson	 Depth of Damage on Pine Logs from Feed Roller Spikes at Various Engine RPM in 4 Sea- sons - Zbigniew Karaszewski, Piotr S. Meder- ski, Agnieszka Łacka, Andrzej Noskowiak, Mariusz Bembenek, Martyna Rosińska
	3. The Analysis of Coniferous Logs Top Diameter Measurement Accuracy Under Bark Using Harvester and 3D Systems - Ziedonis Miklašēvičs	3. Hybrid Solutions as Measure to Increase Energy Efficiency - A Prototype of Hybrid Technology Chipper - Robert Prinz, Juha Laitila, Lars Eliasson, Johanna Routa, Antti Asikainen	3.Productivity of CTL Harvesting by Operators' Age and Experience - <i>Jukka Malinen</i> , <i>Janne Taskinen</i> , <i>Timo Tolppa</i>
(6 x 20min)	4. Use of High Multi-Temporal Ground Resolution Model by Portable Laser Scan- ner and Physical Parameters Sampling to Assess Soils Disturbance Caused by Log- ging Operation - Martina Cambi, Francesca Giannetti, Davide Travaglini, Gherardo Chi- rici, Enrico Marchi	4. Analysis of Chipping Operations and Chip Quality for Bioproducts - <i>John Vance</i> , <i>Jingxin Wang</i> , <i>Xinfeng Xie</i>	4.Cable Yarding in North America and New Zealand: A Review of Developments and Practices - <i>Rien Visser, Hunter Harrill</i>
	5. Determination of Forest Road Surface Roughness by Kinect Depth Imaging - Francesco Marinello, Andrea Rosario Proto, G. Zimbalatti, Raffaele Cavalli, Stefano Grigolato	5. A Characterisation of the Ash Content of Conifer Stump Wood Hogfuel - Enda Coates, Alejandro Nieto Gámez, Thomas Kent, Brian Cronin	Tractor Mounted Winching Systems for Small Scale Harvesting - Mehmet Eker
	6. Scopes and Limitations of the Use of UAV (Drones) to Support Forest Assessment and Operations - Study Case in Yungas Cloud Forest, North Argentina - Fernando Rossi, Gero Becker	6. The Possibility to Improve the Quality of Forest Chips During Transport - Arkadiusz Gendek, Tomasz Nurek, Witold Zychowicz, Krzysztof Górnicki	6. Productivity Analysis of Skidding Operations with Farm Tractor on Skid Roads: The Case of Osmaniye Forest Enterprise Chief, Turkey - Neşe Gülci, Sercan Gülci, Abdullah E. Akay
17:00 - 18:00	Coffee Break / Po	ster Session II [Room: Aula "Sergiu T. Chir	acescu" - Main Hall]
18:00 - 19:30		Free Time	
19:30 - 23:30	Conference Dinner - Coliba Haiducilor (Poiana Braşov) - Two-way bus trip: ARO Palace - Poiana Braşov		











27/09/2017	Conference Day 2 [AULA "Sergiu T. Chiriacescu" - UNITBV]			
	Session - [Room: U I 3]	Session - [Room: U I 6]	Session - [Room: U I 2]	Session - [Room: U I 7]
	A2	B2	C2	D1
08:30 - 10:30	Doing it even better	Infrastructure is the key	Innovation for mobilization	Backing the industry
	Performance of harvesting systems II	Forest road networks	Optimized Transport & Logistics	Forest operations & Enterprises
	Moderator: Tadeusz Moskalik	Moderator: Tibor Pentek	Moderator: Rien Visser	Moderator: <i>Dirk Jaeger</i>
(6 x 20min)	1. Trunk Utilisation as a Factor Affecting Harvester Productivity - Martyna Rosińska, Mariusz Bembenek, Zbigniew Ka- raszewski, Agnieszka Łacka, Piotr S. Mederski	1. Conditions of Forest Road Network in Terms of Sustainabil- ity in Geraka - Kimmeria - Xanthi Forest Complex - <i>Daoutis Chris-</i> <i>todoulos</i> , George Tasionas, Di- mitrios E. Farmakis, Vasileios C. Drosos	Utilization of Phone Application Technology to Record Log Truck Movement in the Southeastern US - Marissa Jo Daniel, Tom Gallagher, Tim McDonald	1. A Study at Different Scales of the Potential of Biomass Use: GIS, Yields, Costs and Logistics - Sandra Sánchez-García, Edu- ardo Tolosana, Lars Eliasson, Dimitris Athanassiadis, Celia Martínez, Juan Majada, Elena Canga
	2. Determinants of Harvesting Efficiency of Genetically Modified Poplar (Populus Trichocarpa) - Witold Zychowicz, Tomasz Nu- rek, Monika Aniszewska, Arkadi- usz Gendek	2. Challenges in Forest Road Network Development in Eastern Europe - Stelian Alexandru Borz, Eugen Iordache	2. Design and Implementation of an Integrated Transport Frame- work System to Optimize Timber and Biomass Supply Logistics: A Case Study in Asturias, Spain - Mauricio Acuna, Elena Canga, Sandra Sánchez-García	2. Comparison of Video-Based and Conventional Time and Mo- tion Studies of Mechanized For- est Operations - Maximilian Kammermeier, Eric R. Labelle, Fabian Schulmeyer
	3. What Density of Strip Roads for Early Thinning? Productivity and Cost of Various Mechanised Thinning Operations in 2 nd Age Class Pine Stand - Piotr S. Mederski, Mariusz Bembenek, Zbigniew Karaszewski, Martyna Rosińska, Zenon Pilarek, Michał Surus	A New Spatially Explicit Method to Assess the Quality of a Forest Network in Terms of Terrain Access for Harvesting Operations - Leo Gallus Bont	3. State-Of-The-Art of Log and Biomass Transportation: A Comparative Analysis Between Spain and Australia - Rubén Laina, Mauricio Acuña, Juan Picos	3. Harvesting Conditions, Market Particularities or Just Economic Competition: a Romanian Case Study Regarding the Evolution of Standing Timber Contracting Rates - Mădălina Fornea, Stelian Alexandru Borz, Marcian Bîrda, Bogdan Popa
	4. Simulation of Boom-Corridor Thinning Using a Multi-Tree Felling-Head Mounted on a Pro- cessor-Bundler - <i>Jussi Manner</i> , <i>Petrus Jönsson</i> , <i>Örjan Grönlund</i>	4. Development of the New Method for Assessing Condition of Forest Road Surface - Marijan Šušnjar, Zdravko Pandur, Hrvoje Nevečerel, Kruno Lepoglavec, Marin Bačić	4. Forest Products Transport by Activating Upgraded Forest Road and Intermediate Depots - <i>Mika</i> <i>Yoshida, Jiyoung Son, Hideo</i> <i>Sakai</i>	4. Timber Harvesting Methods in Eastern European Countries - Tadeusz Moskalik









Romania 2017

Session - [Room: U I 6] A3 Creativity reloaded Innovations & Process	5.Predicting the Traffic of a Forest Road Network - Balázs Kisfaludi, Péter Primusz and József Péterfalvi 6. Design and Construction Experiences with Simple Soil Stabilization Based Pavements - József Péterfalvi, Péter Primusz, Balázs Kisfaludi Break / Poster Session III [Room: Session - [Room: U I 3] B3 Improving your bio(energy)	5. Developing Primer Transportation Plan for Forested Areas Under the Risk of Winter Storm Damage – Abdullah E. Akay, İnanç Taş 6. Improved Route Generation for Logging Trucks Considering Curvature, Hilliness and Intersections - Gunnar Svenson, Patrik Flisberg, Mikael Rönnqvist Aula "Sergiu T. Chiriacescu" - Ma Session - [Room: U I 2] C3	5. Use of Timber Harvesting Data from Single Grip Harvesters - A Survey of Contractors in Central Germany - Dirk Jaeger, Kevin Hammerich, Olaf Müller, Thilo Wagner, Christian Suchomel 6. Planning of Skid Roads After Forest Fire in Turkey (A Case Study of Adrasan Forest Enterprise) - Tolga Ozturk, Ebru Bilici in Hall] Session - [Room: U I 7] D2
Coffee Session - [Room: U I 6] A3 Creativity reloaded Innovations & Process	periences with Simple Soil Stabilization Based Pavements - József Péterfalvi, Péter Primusz, Balázs Kisfaludi Break / Poster Session III [Room: Session - [Room: U I 3] B3	Logging Trucks Considering Curvature, Hilliness and Intersections - Gunnar Svenson, Patrik Flisberg, Mikael Rönnqvist Aula "Sergiu T. Chiriacescu" - Ma Session - [Room: U I 2] C3	Forest Fire in Turkey (A Case Study of Adrasan Forest Enterprise) - Tolga Ozturk, Ebru Bilici in Hall] Session - [Room: U I 7]
Session - [Room: U I 6] A3 Creativity reloaded Innovations & Process	Session - [Room: U I 3] B3	Session - [Room: U I 2] C3	Session - [Room: U I 7]
A3 Creativity reloaded Innovations & Process	В3	C3	
Creativity reloaded Innovations & Process			D2
Innovations & Process	Improving your bio(energy)	All about the boutless	
		All about timber flow	Humans and nature
	Bioenergy & Quality improvement	Wood supply chain challenges	Social & Environmental challenges
Moderator: Hideo Sakai	Moderator: Stefano Grigolato	•	Moderator: Mauricio Acuna
Optimized Clearing and Early Thinning by Spacer and Motor- Saw - Christian Suchomel, Dirk Jaeger	1. Impact of Splitting on the Dry- ing Performance of Poplar (<i>Popu-</i> <i>lus Spp.</i> L.) Logs Stored in Piles for Energy Purposes - <i>Gernot</i> <i>Erber, Karl Stampfer</i>	In-Forest Debarking of Radiata Pine to Improve Supply Chain Efficiency in Australia and New Zealand: Effect of Harvesting Season, System and Equipment - Mauricio Acuna, Glen Murphy	Good Practices in Health and Safety in Forest Enterprises - Edgar Kastenholz, Joachim Morat, Ute Seeling
2. A New Technique for Precommercial Thinning Using a Clearing Saw Designed for Top Spacing - <i>Michel Soucy, Martin Béland</i>	2. The Comminution Cost of Wood Raw Material for Fuel in Estonian Conditions - A Case Study - <i>Marek Irdla, Allar Padari,</i> Vahur Kurvits, Peeter Muiste	2. Innovative and Adapted Wood Supply Chains as a Prerequisite for Sustainable Management of the Brazilian Atlantic Forest - Pedro Britto, Dirk Jaeger, Stephan Hoffmann, Renato Robert, Alfredo Fantini	2. Characteristics and Improve- ment of Forestry Workers Train- ing in Croatia - <i>Matija Landekić</i> , <i>Ivan Martinić</i> , <i>Matija Bakarić</i> , <i>Tibor Pentek</i> , <i>Tomislav Poršin-</i> <i>sky</i> , <i>Mario Šporčić</i>
3. Scenario Planning for Skid Trail Implementation and Long Term Trafficability - <i>Christophe</i> <i>Ginet, Philippe Ruch, Morgan</i> <i>Vuillermoz</i>	3. Reducing Fuel Consumption and Improving Chip Quality by Adjusting Chipper Settings - Pau- lo Silva, Ângelo Moura, Raffaele Spinelli	3. Forecast of Forest Biomass Supply Chain Capacity and Effi- ciency at The Regional, Local and Individual Level in Finland - Kalle Karttunen, Mika Aalto, Jar- no Föhr, Tapio Ranta	3. Trainees' Perceptions of Log- ger Training: The Effect of Course Demographic Variation on Survey Outcomes - Natascia Magagnotti, Mathew Smidt, Raf- faele Spinelli
	Thinning by Spacer and Motor-Saw - Christian Suchomel, Dirk Jaeger 2. A New Technique for Precommercial Thinning Using a Clearing Saw Designed for Top Spacing - Michel Soucy, Martin Béland 3. Scenario Planning for Skid Trail Implementation and Long Term Trafficability - Christophe Ginet, Philippe Ruch, Morgan	Moderator: Hideo Sakai Optimized Clearing and Early Thinning by Spacer and Motor-Saw - Christian Suchomel, Dirk Jaeger 2. A New Technique for Precommercial Thinning Using a Clearing Saw Designed for Top Spacing - Michel Soucy, Martin Béland 2. The Comminution Cost of Wood Raw Material for Fuel in Estonian Conditions - A Case Study - Marek Irdla, Allar Padari, Vahur Kurvits, Peeter Muiste 3. Scenario Planning for Skid Trail Implementation and Long Term Trafficability - Christophe Ginet, Philippe Ruch, Morgan Vuillermoz	Moderator: Hideo Sakai Optimized Clearing and Early Thinning by Spacer and Motor-Saw - Christian Suchomel, Dirk Jaeger 1. Impact of Splitting on the Drying Performance of Poplar (Populus Spp. L.) Logs Stored in Piles for Energy Purposes - Gernot Erber, Karl Stampfer 2. A New Technique for Precommercial Thinning Using a Clearing Saw Designed for Top Spacing - Michel Soucy, Martin Béland 2. The Comminution Cost of Wood Raw Material for Fuel in Estonian Conditions - A Case Study - Marek Irdla, Allar Padari, Vahur Kurvits, Peeter Muiste 3. Scenario Planning for Skid Trail Implementation and Long Term Trafficability - Christophe Ginet, Philippe Ruch, Morgan Vuillermoz Moderator: Karl Stampfer 1. In-Forest Debarking of Radiata Pine to Improve Supply Chain Efficiency in Australia and New Zealand: Effect of Harvesting Season, System and Equipment - Mauricio Acuna, Glen Murphy 2. Innovative and Adapted Wood Supply Chains as a Prerequisite for Sustainable Management of the Brazilian Atlantic Forest - Pedro Britto, Dirk Jaeger, Stephan Hoffmann, Renato Robert, Alfredo Fantini 3. Forecast of Forest Biomass Supply Chain Capacity and Efficiency in Australia and New Zealand: Effect of Harvesting Season, System and Equipment - Mauricio Acuna, Glen Murphy 2. Innovative and Adapted Wood Supply Chains as a Prerequisite for Sustainable Management of the Brazilian Atlantic Forest - Pedro Britto, Dirk Jaeger, Stephan Hoffmann, Renato Robert, Alfredo Fantini 3. Forecast of Forest Biomass Supply Chain Capacity and Efficiency in Australia and New Zealand: Effect of Harvesting Season, System and Equipment - Mauricio Acuna, Glen Murphy 2. Innovative and Adapted Wood Supply Chains as a Prerequisite for Sustainable Management of the Brazilian Atlantic Forest - Pedro Britto, Dirk Jaeger, Stephan Hoffmann, Renato Robert, Alfredo Fantini









	4. Innovating Forestry using 3D Geospatial Technology Based on GEOSLAM Mobile Scanner – Mihai Daniel Niţă, Stelian Alexandru Borz, Ştefan-Bogdan Candrea Bozga	4. Performance of a Mobile Star Screen to Improve Woodchip Quality of Forest Residues - Christoph Huber, Huberta Kroisleitner, Karl Stampfer	4. Multiobjective Optimization of Timber and Bioenergy Supply Chain from Beetle-Killed Biomass in Colorado - <i>Ji She</i> , <i>Hee Han</i> , <i>Woodam Chung</i>	4. The Dialog Tool: A Support Document for Deeper Trust - Philippe Ruch, Xavier Montagny, Morgan Vuillermoz, Cyrille Pupin
	5. Multiple-Objective Stem Bucking in Log Cutting of Norway Spruce (<i>Picea abies</i>) Stems for Maximizing Monetary Value of Timber Trade in Finland - <i>Teijo Palander</i> , <i>Joonas Mutanen</i> , <i>Kalle Kärhä</i> , <i>Juha-Antti Sorsa</i> , <i>Tapio Räsänen</i>	5. Future Scenario Analysis for Predicting Forest Woody Bio- mass Availability for Energy Use and Its Economic Impact for The Mexican Bioeconomy - <i>Ulises</i> Flores, Dirk Jaeger	5. Research Trends in European Forest Fuel Supply Chains: A Review of the Last Ten Years (2007-2017) - <i>Martin Kühmaier</i> , <i>Gernot Erber</i>	5. Is Life Cycle Assessment in Forestry Still at Starting Position? - Andreja Đuka, Dinko Vusić, Marin Bačić, David Janeš, Zdravko Pandur, Ivica Papa
	6. Optimal Timber Supply in Time Slots with Integrated Planning of Harvest and Transport Opera- tions - <i>Thomas Smaltschinski</i> , <i>Martin Müller</i>	6. Pre-Feasibility Study of Supply Systems Based on Artificial Dry- ing of Forest Chips Made of De- limbed Stems - Juha Laitila, Jaakko Repola, Anssi Ahtikoski, Johanna Routa	6. Review of Efficient and Cost- Effective Biomass Recovery Technologies and Supply Chains in Forest Operations - Moham- mad Reza Ghaffariyan, Mark Brown, Mauricio Acuna, John Sessions, Tom Gallagher, Martin Kühmaier, Raffaele Spinelli et al.	6. Soil Protection in Wood Harvesting: Insights from Production, Industrial- and Institutional Economics - Oliver Thees
13:00 - 14:30	Lunch Break [Main Hall]			
	Session - [Room: U I 7]	Session - [Room: U I 2]	Session - [Room: U I 6]	Session - [Room: U I 3]
	A4 Looking after Mama Nature	B4 Mitigating the risks	C4 For the cashflow	D3 It's about lumberjacks
14:30 - 16:30		Safety & Ergonomics		
	Environmental footprint	in steep terrain	Economic performance	Manual operations challenges
	Moderator: Andreja Đuka	Moderator: Hans Rudolf Heinimann	Moderator: Woodam Chung	Moderator: Eduardo Tolosana
(6 x 20min)	New Techniques for Estimating the Extent, Severity and Distribution of Soil Disturbance from Machine Traffic During Clearfell Harvesting - Bruce Talbot, Rasmus Astrup	The Influence of Soiling on the Breaking Strength of Covered and Uncovered 12-Strand Uhmpe - Ropes for Forestry Applications - Nikolaus Nemestothy	Economic Analysis of Long- Term Operation of a Harvester and Forwarder Under Forest Owner Management - Martin Chytry, Pavel Sladek	1. Using Sound Pressure Sensors to Monitor the Performance of Manually Operated Circular Saws: What Parameters Can Be Inferred? - Marius Cheţa, Daniel Şerban, Gheorghe Ignea, Rudolf Alexandru Derczeni, Victor Sfeclă, Stelian Alexandru Borz









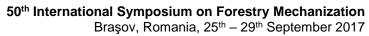
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	2. Effects of Soil Penetration Resistance on Early Response of Q. Robur Seedlings Since Germination - Martina Cambi, Barbara Mariotti, Alberto Maltoni, Fabio Fabiano, Andrea Tani, Enrico Marchi	2. Inspecting Wire Rope Tensions and End Connectors on Cable-Assist Operations - Hunter Harrill, Rien Visser, James Byron	2. Machine Cost Calculation to Determine the Forest Operations Costs - Sebastian Pilz, Jörn Erler	2. Oxygen Expenditure During Motor-Manual Harvesting in the Mediterranean Forests - Andrea R. Proto, Giuseppe Zimbalatti, Diego Russo
	3. Soil Disturbance of a Cable Assisted CTL Harvester For- warder Thinning in Northwest US - Preston Green, Woodam Chung, Ben Leshchinsky, John Sessions, Stephen Fitzgerald, Jeff Wimer	3. Two Years Steep Slope Initiative - Questions, Answers, and Practical Outcomes - Dzhamal Amishev, Jim Hunt	3. The Profitability of Biomass Harvesting in Spruce Stands When Considering Nutrient Cy- cling - Herbert Borchert, Christian Fritsch, Wendelin Weis, Christian Kölling, Axel Göttlein	3. Coupling Motion Detection and Sound Pressure Sensors to Automate Data Collection in Mo- tor-Manual Production Studies - Marius Cheţa, Nicolae Talagai, Stelian Alexandru Borz
	4. Pressure Allocation Under Forest Tires - Static and Dynamic Examination and Rutting Process in Field Tests - Bastian Hinte, Henrik Brokmeier	4. Operators in Steep Slope Log- ging and Safety Measurement - John Garland, Francisca Belart, Robert Crawford, Woodam Chung, Tamara Cushing, Laurel Kincl, Ben Leshchinsky, John Sessions, Jeff Wimer	4.Accuracy, Efficiency and Usability of Photo-Optical Pile Measurement Systems in the Wood Supply Chain - Martin Opferkuch, Martina Attinger, Dirk Jaeger	4. Determining the Vibrations Transmitted by Electric Chainsaws in Conifer Cross-Cutting Operations - Enrico Marchi, Francesco Neri, Andrea Laschi, Cristiano Foderi, Martina Cambi, Fabio Fabiano
	5. Stump Treatment with Chemical and Biological Controls Against Heterobasidion Spp. Root Rot in Coniferous Forests of Finland - Kalle Kärhä, Ville Koivusalo, Teijo Palander, Matti Ronkanen	5. Using of Fine Kinney Risk Assessment Method in the Wood Production Process - Saliha Ün- ver-Okan, H. Hulusi Acar, İbrahim Ergenç	5. Challenges in Road Construction and Timber Harvesting in Japan - <i>Hideo Sakai</i>	5. Field Performance of Motor- Manual Felling in Willow Short Rotation Crops - <i>Nicolae Talagai</i> , <i>Stelian Alexandru Borz</i>
	6. Estimating Marginal Tree(s) Damaged Following Forest Harvesting by Artificial Neural Networks - Hadi Bayati, Akbar Najafi	6. Green Energy Cluster - Community-Driven Sustainable Bioenergy Projects - <i>Boglarka Vajda</i>	6. TIMFLOW - The Solution for Wood Traceability - Adrian Dulgheru	6. KRONOSPAN - Excellence in Wood Processing - <i>Biborka Bartha</i>
16:30 - 17:00	Coffee Break [Room: Aula "Sergiu T. Chiriacescu" - Main Hall]			
	Closing ceremony - [Room: Aula Magna]			
17:00 - 18:00	Vice-Dean, Fa	aculty of Silviculture and Forest Engi	neering (Braşov) & Head of Organizi	ng Committee
	Univ.prof.dr. Stelian Alexandru BORZ			
18:00 - 20:00		Free time		
20:00 - 23:00	Conference Dinner - PRATO Restaurant			
	Comercine Dinner IVATO Restaurant			













28/09/2017	Field Trip to FOREST ROMANIA
	Forest machinery and technology fair [Zizin: www.forestromania.com]
9:00	Transfer Hotel ARO PALACE - FOREST ROMANIA 9:00
16:00	Transfer FOREST ROMANIA - Hotel ARO PALACE: 16:00
17:00	Free time











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