

FEC - FORMEC - 2014 conference  
Contributions

ID	Authors	Title of the contribution	Keywords	Session	THEME	First Name	Family name	E-mail	Affiliation	Country
45	Sirén, Matti; Hyvönen, Juha and Surakka, Heikki	<a href="#">Tree damage in mechanized uneven-aged selection cuttings</a>	Uneven-aged management, selection cutting, mechanized harvesting, tree damage, spatial analysis	A	Forest operations: environmental concerns and natural hazards	Matti	Sirén	matti.siren@metla.fi	METLA	Finland
52	Corbic Vladimir; Klvac Radomir; Stojnic Dusan	<a href="#">Method of investigation towards better forest fires risk management due to the improved forest biomass utilization</a>	logging residue, biomass, forest fire, decision support tool	A	Forest operations: environmental concerns and natural hazards	Vladimir	Corbic	corbic.vladimir@yahoo.com	Mendel University in Brno Faculty of Forestry and Wood Technology	Czech Republic
139	Widinghoff Jenny 1; Fogdestam Niklas 2; Löfroth Claes 3;	<a href="#">HCT vehicles for timber transport in Sweden - Results from the ETTdemo project</a>	round wood transportation, higher payloads, fuel consumption, emissions, transportation costs	A	Forest operations: environmental concerns and natural hazards	Jenny	Widinghoff	jenny.widinghoff@skogforsk.se	Skogforsk	Sweden
143	Jaafari Abolfazl; Najafi Akbar	<a href="#">Spatial prediction of slope failure in the Caspian forest using an adaptive neuro-fuzzy inference system and GIS</a>	ANFIS; Landslide susceptibility; Road construction; Timber harvesting	A	Forest operations: environmental concerns and natural hazards	Akbar	Najafi	a.najafi@modares.ac.ir	Tarbiat Modares Univesity (TMU)	Iran
178	Drosos Vasileios C...	<a href="#">Environmental effects of forest operations on a suburban forest landscape – a forest engineering approach</a>	biological landscape, cultural landscape, physical landscape, decision-making.	A	Forest operations: environmental concerns and natural hazards	Vasileios	Drosos	vdrosos@fmenr.duth.gr	Democritus University of Thrace	Greece
203	Bohrn, Stampfer & Huber	<a href="#">Application of fertilizer spreaders for wood ash utilization</a>	Keywords: wood ash, utilization, fertilizer spreader, spreading techniques,	A	Forest operations: environmental concerns and natural hazards	Christoph	HUBER	<a href="mailto:christoph.huber@boku.ac.at">christoph.huber@boku.ac.at</a>	BOKU	Austria
55	Di Fulvio Fulvio; Bergström Dan	<a href="#">Evaluation of a prototype harvester head for rough delimiting and compression in early energy wood thinning</a>	felling head, harvester head, bioenergy, energy wood, rough-delimiting	A	Innovation-driven developments in harvesters and forwarders	Fulvio	Di Fulvio	fulvio.di.fulvio@slu.se	SLU	Sweden
146	Lindroos, Ola; Ringdahl, Ola; La Hera, Pedro; Hohnloser, Peter; Hellström, Thomas	<a href="#">Estimating the harvester head's position - a missing link to the future's precision forestry</a>	Spatial modelling, ALS, timber traceability, automation, StanForD, IMU, joint sensors, laser.	A	Innovation-driven developments in harvesters and forwarders	Ola	Lindroos	ola.lindroos@slu.se	SLU	Sweden
215	Nicolas PERRIGUEY - Zine Elabidine CHEBAB Céline DEVEY - Guillaume DARGNAT - Benjamin HATTON David GOUBET – Jean-Christophe FAUROUX - Vincent GAGNOL Belhassen-Chedli BOUZGARROU - Grigore GOGU	<a href="#">Harvesting Machines for crooked trees</a>	Harvesting Heads, Crooked trees, Contact Modelling, CAD, multibody modelling	A	Innovation-driven developments in harvesters and forwarders	Nicolas	Perriguet	<a href="mailto:nicolas.perriguet@ifma.fr">nicolas.perriguet@ifma.fr</a>	IFMA	France
221	Piotr S. Mederski, Mariusz Bembenek, Zbigniew Karaszewski & Martyna Gierszewska	<a href="#">Directing the development of mechanised forest operations to meet changes in Polish forestry</a>		A	Innovation-driven developments in harvesters and forwarders	Piotr	Mederski	<a href="mailto:piotr.mederski@up.poznan.pl">piotr.mederski@up.poznan.pl</a>	Poznań University of Life Sciences, Department of Forest Utilisation	Poland
53	Ge Xiaowen; Wang Lihai; Bao Zhenyu; Sun Tianyong	<a href="#">Comparative analysis of four estimation methods of stand volume and different staged measurement and analysis of sub-compartment output volume in Eucalyptus stump area</a>	stand volume; sample plot inventory; Angle Gauge plot; tally; output volume; pile measurement; truck measurement; comparative analysis	A	Measuring and tagging logs along the supply chain	Lihai	Wang	lihaiwang@yahoo.com	Forest Operations and Forest Environment Research Centre, Northeast Forestry University	P. R. China
67	Murphy, Glen 1; Valkenburg, Robert 2; Ganley, Donal 3	<a href="#">Development of an automated system for counting, measuring and tracking export logs arriving on trucks and railway wagons</a>	forestry chain, logistics, computer vision, log measurement, export logs.	A	Measuring and tagging logs along the supply chain	Glen	Murphy	glen.murphy@waiariki.ac.nz	GE Murphy & Associates	New Zealand
97	Saralecos, Jarred D.	<a href="#">Influence of Region, Seasonality, and Species on Weight to Volume Relationships of Commercial Sawlogs in Idaho</a>	Log scaling, weight to volume relationships, weight scaling	A	Measuring and tagging logs along the supply chain	Jarred	Saralecos	sara7015@vandals.uidaho.edu	University of Idaho	USA
185	Jaeger, Dirk; Opferkuch, Martin	<a href="#">Improved wood delivery by new scaling methods of log piles</a>	log diameter assessment, log length assessment, single-grip harvester, log count, volume of log pile	A	Measuring and tagging logs along the supply chain	Dirk	Jaeger	<a href="mailto:dirk.jaeger@fobawi.uni-freiburg.de">dirk.jaeger@fobawi.uni-freiburg.de</a>	Albert-Ludwigs-Universität Freiburg	Germany
208	J-P van der Merwe, R. E. Pulkki, P. A. Ackerman, D. Längin	<a href="#">The impact of mechanical log surface damage on fibre loss and chip quality when processing Eucalyptus pulpwood using a single-grip harvester</a>	Mechanised debarking, chip quality, fibre loss	A	Measuring and tagging logs along the supply chain	J-P	van der Merwe	packer@sun.ac.za	Department of Forest and Wood Sciences, Stellenbosch University	South Africa
57	Grönlund Örjan; Iwarsson Wide Maria; Englund Martin	<a href="#">Using a harvester simulator to evaluate work methods in thinning</a>	Multi tree handling; harvester performance; operator work load; early thinning; small tree harvest	B	Ergonomics and Man-Machine co-developments	Örjan	Grönlund	orjan.gronlund@skogforsk.se	Skogforsk	Sweden
113	Melemez Kenan; Tunay Metin; Emir Tuna	<a href="#">An evaluation on whole-body vibration affecting tractor and truck operators</a>	Ergonomics, Forestry, Seat, Tractor, Truck, Whole-body vibration	B	Ergonomics and Man-Machine co-developments	Kenan	Melemez	kmelemez@hotmail.com	Bartın University, Faculty of Forestry	TURKEY

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115	Manavakun Nopparat	<a href="#">A comparison of OWAS and REBA observational techniques for assessing postural loads in tree felling and processing</a>	Observational techniques, OWAS, REBA, tree felling, cross-cutting	B	Ergonomics and Man-Machine co-developments	Nopparat	Manavakun	fornrm@ku.ac.th	Department of Forest Engineering, Faculty of Forestry, Kasetsart University	Thailand
145	La Hera, Pedro; Ortiz Morales, Daniel; Westerberg, Simon; Lindroos, Ola	<a href="#">Analysis of human generated crane motion patterns – towards the automation of forestry manipulators</a>	Hydraulic manipulator, motion sensors, trajectory planning, boom-tip control, joystick control,	B	Ergonomics and Man-Machine co-developments	LA HERA	Pedro	ola.lindroos@slu.se	SLU	Sweden
165	Häggström Carola; Englund Martin; Lindroos Ola; Lidestav Gun	<a href="#">Eye-tracking as a research tool to analyse work conducted by harvester operators</a>	ergonomics, eye tracking, focus, gaze patterns, forest harvesting, physiological measures, research tools, single grip harvester, vision	B	Ergonomics and Man-Machine co-developments	Carola	Häggström	carola.haggstrom@slu.se	SLU	Sweden
49	Lindeman; Ala-Ilomäki; Uusitalo	<a href="#">Possibilities to reduce rut formation in logging operations on unfrozen peatland</a>	peatland, harvesting, bearing capacity, rut formation, wide logging trails, high flotation logging machinery, logging machinery running gear type	B	Trafficability practices and understanding of forest soil characteristics	Harri	Lindeman	harri.lindeman@metla.fi	METLA	Finland
88	Noémie Goutal-Pousse; Pascal Bonnaud; Jérôme Demaison; Gilles Nourrisson; Pascal George; Jacques Ranger	<a href="#">Soil compaction on two sensitive sites in north-eastern France and natural or assisted recovery processes</a>	soil compaction, soil structure regeneration, disking, local subsoiling, liming	B	Trafficability practices and understanding of forest soil characteristics	Noémie	Pousse	noemie.pousse@onf.fr	ONF-département R&D	France
96	Christian Knobloch, Christian Jacobs	<a href="#">Innovative concept of a forwarding system for considerate treatment of forest soil and improved efficiency</a>	forwarding system, sensitive forest soil, new kind of carriage, economical optimisation	B	Trafficability practices and understanding of forest soil characteristics	Christian	Knobloch	knobloch@forst.tu-dresden.de	TU Dresden	Germany
127	Öhman Mikael; Bergsten Urban; Nordfjell Tomas; Ågren Anneli	<a href="#">Flexible extra wheel-attachment to decrease ground pressure of a harvester</a>	Rutting, soft ground, soil penetration resistance, soil disturbance, trafficability	B	Trafficability practices and understanding of forest soil characteristics	Mikael	Öhman	mikael.ohman@slu.se	SLU	Sweden
144	Borchert; Huber; Goettlein; Kremer	<a href="#">Nutriment concentration on skid trails under brushmats: is a redistribution of nutriments possible?</a>	soil compaction, brush-mat, nutrient balance	B	Trafficability practices and understanding of forest soil characteristics	Herbert	Borchert	Herbert.Borchert@mail.de	Bavarian State Institute of Forestry (LWF)	Germany
24	Visser, Rien; Tolan, Alex	<a href="#">Optimising Harvesting and Processing Operations within the Value Chain</a>	Mechanised processing; Value recovery; Harvesting Operations	B	Wood supply chain management and decision support tools	Rien	Visser	rien.visser@canterbury.ac.nz	School of Forestry	New Zealand
62	Thomas Carrette, Christophe Ginet	<a href="#">Wood transport qualification to anticipate regulatory constraints</a>	Wood transport, GPS tracking, Geo-localization, Regulatory, Speed profile	B	Wood supply chain management and decision support tools	Thomas	Carrette	thomas.carrette@fcba.fr	FCBA	France
93	Akay, Abdullah E.; Azad Haji Kakol, Aso	<a href="#">Forest Transportation Planning by using GIS-based Decision Support System</a>	Forest transportation, logging operation, GIS, decision support systems	B	Wood supply chain management and decision support tools	Abdullah E.	Akay	akay@ksu.edu.tr	Kahramanmaras Sutcu Imam University	TURKEY
160	Frisk Mikael; Rönqvist Mikael; Flisberg Patrik; Andersson Gert	<a href="#">Optimized scheduling of harvesting teams</a>	optimization, operational planning, scheduling, harvest planning, supply chain planning	B	Wood supply chain management and decision support tools	Mikael	Frisk	<a href="mailto:frisk@creativeoptimization.se">frisk@creativeoptimization.se</a>	Skogforsk	Sweden
222	Ben D. Spong & Shawn T. Grushecky	<a href="#">West Virginia Logger Travel Distance and Wood Supply Zone Opportunities</a>	haul distance, travel distance, harvest planning	B	Wood supply chain management and decision support tools	Ben	Spong	<a href="mailto:Ben.Spong@mail.wvu.edu">Ben.Spong@mail.wvu.edu</a>	West Virginia University	USA
223	Mauricio Acuna	<a href="#">Integrated transportation tools to optimise timber and biomass supply logistics</a>	logistics and transportation planning, optimal truck allocation, truck dispatching	B	Wood supply chain management and decision support tools	Mauricio	Acuna	<a href="mailto:macuna@usc.edu.au">macuna@usc.edu.au</a>	AFORA - University of the Sunshine Coast	Australia
31	Strandgard, Martin; Mitchell, Rick	<a href="#">Monitoring long-term forwarder productivity using onboard computer data</a>	Precision forestry, GNSS, forwarder, long-term productivity	C	From traditional to automated work studies	Martin	Strandgard	mnstra@unimelb.edu.au	University of the Sunshine Coast	Australia
117	Grigolato Stefano; Poje Anton; Pellegrini Marco; Potocnik Igor; Cavalli Raffaele	<a href="#">Analyzing forwarder operation by consumer-grade GPS in mountainous conditions</a>	Forwarder, Time Study, Forest operations, Precision Forestry, GPS	C	From traditional to automated work studies	Stefano	Grigolato	stefano.grigolato@unipd.it	University of Padova - TESAF Department	Italy
129	Kosir Bostjan, Spinelli Raffaele	<a href="#">Forest work studies: who, why, how</a>	Work studies; Delays; Methods; Funding sources;	C	From traditional to automated work studies	Raffaele	Spinelli	spinelli@ivalsa.cnr.it	CNR-IVALSA	Italy
134	Borz Stelian Alexandru; Popa Bogdan; Ignea Gheorghe; Sparchez Gheorghe	<a href="#">Estimating the Time Consumption and Productivity of Round Wood Skidding in Group Shelterwood Cuttings – A Case Study in a Mixed Stand Located in Reduced Accessibility Conditions</a>	skidding, efficiency, group shelterwood system, time prediction, production rates	C	From traditional to automated work studies	Stelian Alexandru	Borz	stelian.borz@unitbv.ro	Department of Forest Engineering, Transilvania University of Brasov	Romania

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<a href="#">142</a>	Manner Jussi; Palmroth Lauri; Lindroos Ola; Nordfjell Tomas	<a href="#">Forwarding work study with automatic data recording</a>	Delay time, driving speed, follow up study, fuel consumption, overlapping work elements, time study, work study methodology	C	From traditional to automated work studies	Jussi	Manner	jussi.manner@slu.se	SLU	Sweden
<a href="#">158</a>	John Arlinger; Johan J Möller;	<a href="#">Time studies based on automatic data collection</a>	time studies, harvester, automatic data collection	C	From traditional to automated work studies	John	Arlinger	john.arlinger@skogforsk.se	Skogforsk	Sweden
<a href="#">10</a>	Laitila Juha; Väätäinen Kari; Niemistö Pentti	<a href="#">Productivity of multi-tree cutting in thinnings and clear cuttings of downy birch (Betula pubescens) in the integrated harvesting of pulpwood and energywood</a>	coppice forests, peatlands, multi-tree-handling, time study, integrated harvesting, forest fuel	C	Harvesting technics and working methods for biomass mobilization	Juha	Laitila	juha.laitila@metla.fi	METLA	Finland
<a href="#">44</a>	RUCH Philippe, ULRICH Erwin, PISCHEDEA Didier, MONTAGNY Xavier	<a href="#">Mechanized harvesting of big broadleaves crowns</a>	crowns, mechanization, broadleaves, grapple saw, biomass	C	Harvesting technics and working methods for biomass mobilization	Philippe	RUCH	philippe.ruch@fcba.fr	FCBA	FRANCE
<a href="#">58</a>	Eliasson, Lars; von Hofsten, Henrik; Spinelli, Raffaele; Johannesson, Tomas	<a href="#">Effects of sieve size on chipper productivity, fuel consumption and chip size distribution for open drum chippers</a>	Biomass, Forest fuel, chip quality	C	Harvesting technics and working methods for biomass mobilization	Lars	Eliasson	lars.eliasson@skogforsk.se	Skogforsk	Sweden
<a href="#">103</a>	Tom Gallagher, Daniel P. Leite de Souza, Mathew Smidt, Tim McDonald, Dana Mitchell and Jeff Wright	<a href="#">Determining the impact of felling method and time of the year on coppice regeneration</a>	harvesting, bioenergy	C	Harvesting technics and working methods for biomass mobilization	Tom	Gallagher	tgallagher@auburn.edu	Auburn University	USA
<a href="#">161</a>	Lerma, Victoria; Oliver-Villanueva, Jose Vicente; Segura, Guillem	<a href="#">Case study: Comparison of two harvesting methods for bioenergy under Mediterranean conditions</a>	bioenergy, woodchips, time study, harvesting, productivity, carbon balance, energy balance, cost-benefit analysis, Pinus halepensis	C	Harvesting technics and working methods for biomass mobilization	Victoria	Lerma Arce	vicky.lerma.arce@gmail.com	AIDIMA/ UPV	Spain
<a href="#">175</a>	Picchi Gianni, Raffaele Spinelli, Giorgio Ragolini	<a href="#">A new machine for the extraction of SRC stumps for biomass production</a>	Poplar, stumps, biomass, mulcher, SRC	C	Harvesting technics and working methods for biomass mobilization	Gianni	Picchi	picchi@ivalsa.cnr.it	CNR-IVALSA	Italy
<a href="#">23</a>	Visser, Rien; Raymond, Keith; Harrill, Hunter	<a href="#">New Developments in Fully Mechanising Steep Terrain Harvesting Operations</a>	Safety; Mechanisation; Steep slope harvesting; System Productivity; New Zealand	C	Logging in Steep terrain	Rien	Visser	rien.visser@canterbury.ac.nz	School of Forestry	New Zealand
<a href="#">29</a>	Arif Oguz Altunel, Tayyibe Altunel, Korhan Enez, Burak Aricak	<a href="#">CABLE YARDING POTENTIAL and ITS CURRENT SHARE IN TURKISH LOGGING</a>	Turkish forest operations, logging, cable yarding	C	Logging in Steep terrain	Arif Oguz	Altunel	aoaltunel@kastamonu.edu.tr	Kastamonu University	TURKEY
<a href="#">47</a>	Fernando Vélez	<a href="#">Small and simple technology cable system for logging</a>	Cable-line logging, thinning harvesting, logging for forest management	C	Logging in Steep terrain	Fernando	Vélez	fernando.velez52@gmail.com	independent professional in Colombia	Columbia
<a href="#">75</a>	Talbot Bruce, Aalmo Giovanna Ottaviani, Stampfer Karl	<a href="#">Productivity and Systems Analysis of an Excavator Based Running Skyline in Two Alternative Working Configurations in Norway</a>	Cable yarding; steep terrain, logging; productivity studies	C	Logging in Steep terrain	Bruce	Talbot	bta@skogoglandskap.no	Norwegian Forest and Landscape Institute	Norway

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87	Hoffmann Stephan; Schoenherr Siegmar; Jaeger Dirk; Engler Benjamin	<a href="#">Benefits of varying cable yarding technologies with respect to specific timber harvesting and extraction needs in Southern China</a>	Cable Yarding, Harvesting, China	C	Logging in Steep terrain	Stephan	Hoffmann	stephan.hoffmann@fobawi.uni-freiburg.de	Albert-Ludwigs-Universität Freiburg	Germany
32	Bergsten Urban; Hedblom Maria	<a href="#">Answering future specific challenges in harvesting – Views of design students</a>	: Environmentally gentle technique, silvicultural technology, industrial design	D	Innovation-driven developments in harvesters and forwarders	Urban	Bergsten	urban.bergsten@slu.se	SLU	Sweden
79	Öhman Mikael; Häggström Carola; Nordfjell Tomas	<a href="#">Active brake-link for faster and safer forwarding</a>	time study, productivity, thinning, boom-tip, logging damage, residual stand, ergonomics, vibration, occupational health, physical workload.	D	Innovation-driven developments in harvesters and forwarders	Mikael	Öhman	mikael.ohman@slu.se	SLU	Sweden
85	Nordfjell Tomas	<a href="#">The technical evolution and market of forwarders in Sweden</a>	Forest history, hauling, mechanization, invention, sales statistics	D	Innovation-driven developments in harvesters and forwarders	Tomas	Nordfjell	tomas.nordfjell@slu.se	SLU	Sweden
104	Ismoilov Abbas; Sellgren Ulf; Andersson Kjell;	<a href="#">A CONCEPT STUDY OF A FOUR-WHEELED FORESTRY MACHINE WITH ACTIVE PENDULUM AXELS OPERATING ON SOFT AND ROUGH SOIL</a>	chassis levelling, forest machine, ground damage, hydraulic suspension system, multibody dynamic simulation, off-road, rough terrain	D	Innovation-driven developments in harvesters and forwarders	Abbos	Ismoilov	ismoilov@kth.se	KTH	Sweden
216	Céline DEVEMY - Guillaume DARGNAT - Benjamin HATTON David GOUBET - Nicolas PERRIGUEY - Zine Elabidine CHEBAB Jean-Christophe FAUROUX - Vincent GAGNOL Belhassen-Chedli BOUZGARROU - Grigore GOGU	<a href="#">Determination and optimization of delimiting forces on hardwood harvesting heads</a>	Delimiting, Harvester head, Cutting force, Knives, Blade shape, Test bench, Hardwood tree	D	Innovation-driven developments in harvesters and forwarders	Céline	DEVEMY	<a href="mailto:celine.devemy@ifma.fr">celine.devemy@ifma.fr</a>	IFMA	France
300	Federico Ezequiel Báez Morandi	<a href="#">Multi-objective optimization and performance evaluation of chassis suspensions for forest machines</a>		D	Innovation-driven developments in harvesters and forwarders	Federico Ezequiel	Báez Morandi	<a href="mailto:feb@kth.se">feb@kth.se</a>	KTH	Sweden
66	Claire Cornillier; Philippe Ruch	<a href="#">Life Cycle Assessment of woody biomass from energy crops</a>	LCA, carbon footprint, woody biomass, energy crops, mechanization, SRC	D	Looking for efficient bioenergy supply chains	Claire	Cornillier	claire.cornillier@fcba.fr	FCBA	France
68	Irdla Marek; Padari Allar; Muiste Peeter	<a href="#">The logistics of wood chips in Estonian conditions - a case study</a>	wood chips; logistics, case study	D	Looking for efficient bioenergy supply chains	Marek	Irdla	marek.irdla@emu.ee	Estonian University of Life Sciences	Estonia

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<a href="#">105</a>	Yoshida Mika; Hideo Sakai	<a href="#">Establishment of transportation system of low value wood biomass for the early stage of energy supply</a>	logistics, biomass energy, truck transportation, logging residue	D	Looking for efficient bioenergy supply chains	Mika	Yoshida	yoshida@fr.a.u-tokyo.ac.jp	The University of Tokyo	Japan
<a href="#">133</a>	Bergström, Dan; Di Fulvio, Fulvio	<a href="#">The effect of implementing innovative harvesting and handling technologies for young dense thinning on the cost and energy efficiency of supply systems</a>	bioenergy, fuel wood, pre-commercial thinning, productivity, pulpwood	D	Looking for efficient bioenergy supply chains	Dan	Bergström	dan.bergstrom@slu.se	SLU	Sweden
<a href="#">205</a>	Taner Turkmengil - Eric Jessup - Matthias Dees	<a href="#">Improved BioMass Market Efficiency and Price Discovery from Online Auctions</a>	Biomass, Market, Auction, Supply-Chain, Transport, Logistics	D	Looking for efficient bioenergy supply chains	Taner	Turkmengil	<a href="mailto:taner.tuerkmengil@felis.uni-freiburg.de">taner.tuerkmengil@felis.uni-freiburg.de</a>	Albert-Ludwigs-Universität Freiburg	Germany
<a href="#">214</a>	Teemu Mustonen & Matti Tuukkanen	<a href="#">TCS – AN OPERATIONAL SYSTEM FOR CONTROL AND OPTIMIZATION OF FOREST BIOMASS LOGISTICS</a>	Biomass, TCS, transport, logistics, planning, optimization, innovative technology, information system, cost-efficiency	D	Looking for efficient bioenergy supply chains	Teemu	Mustonen	<a href="mailto:teemu.mustonen@ecomond.com">teemu.mustonen@ecomond.com</a>	Ecomond Ltd.	Finland
<a href="#">12</a>	Canga Elena; Sánchez-García Sandra; Prado Enrique; Majada Juan.	<a href="#">PRODUCTIVITY AND COST ANALYSIS OF A WHEELED SKIDDER IN CHESTNUT COPPICE FORESTS IN THE NORTH OF SPAIN. PRELIMINARY EVALUATION OF THE SOIL COMPACTION OF FOREST ROAD.</a>	Wheeled skidder, time study, soil compaction.	D	Trafficability practices and understanding of forest soil characteristics	Elena	Canga Libano	ecanga@cetemas.es	CETEMAS (Forest and Wood Technology Research Centre)	Spain
<a href="#">34</a>	Jori Uusitalo; Harri Lindeman, Jari Alalomäki	<a href="#">Possibilities to predict moisture content of peat soil at the moment of harvest operation</a>	bearing capacity, tree harvesting, VWC	D	Trafficability practices and understanding of forest soil characteristics	Jori	Uusitalo	jori.uusitalo@metla.fi	METLA	Finland
<a href="#">84</a>	Pierzchała Marek; Talbot Bruce; Astrup Rasmus	<a href="#">ESTIMATING SOIL DISPLACEMENT IN SKID TRAIL CONSTRUCTION USING STEREO-PHOTOGRAMMETRY AND LIDAR</a>	road construction, photogrammetry, UAV, DEM	D	Trafficability practices and understanding of forest soil characteristics	Marek	Pierzchała	map@skogoglandskap.no	Norwegian Forest and Landscape Institute	Norway

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<a href="#">109</a>	Pirnazarov Abdurasul; Sellgren Ulf; Löfgren Björn	<a href="#">Review and application of analytical models of forest soil bearing capacity</a>	Wheel, soil, bearing capacity, shearing, root reinforcement, rut depth	D	Trafficability practices and understanding of forest soil characteristics	Abdurasul	Pirnazarov	abpirnaz@kth.se	KTH	Sweden
<a href="#">218</a>	Matiss Bicevskis and Ivars Kalmuks	<a href="#">Non-durable use wood motor roads</a>	low bearing capacity; reducing costs; timber availability	D	Trafficability practices and understanding of forest soil characteristics	Matiss	Bicevskis	<a href="mailto:M.Bicevskis@lvm.lv">M.Bicevskis@lvm.lv</a>	Latvia's state forest	Latvia
<a href="#">60</a>	Baker, Shawn; Greene, Dale	<a href="#">UGA Logging Cost Index: A Measure of Southern US Timber Harvesting Costs</a>	harvesting costs, cost index, logging industry	E	Contractors and durable business	Shawn	Baker	shbaker3@uga.edu	University of Georgia	USA
<a href="#">83</a>	Vennesland Birger; Eva Skagestad; Nybakk Erlend	<a href="#">Importance of Internal and External Factors for Forest Contractors in Norway - The Manager's View</a>	Business Competence; Success Factors; Investments and Technology	E	Contractors and durable business	Birger	Vennesland	vbi@skogoglandskap.no	Norwegian Forest and Landscape Institute	Norway
<a href="#">114</a>	Erlandsson Emanuel; Lidestav Gun; Fjeld Dag	<a href="#">Consequences of Varying Industrial Contexts on Procurement and Management of Logging Services: Comparisons Between two Swedish Forest Companies</a>	harvesting; operations management; service procurement	E	Contractors and durable business	Emanuel	Erlandsson	emanuel.erlandsson@slu.se	SLU	Sweden
<a href="#">120</a>	Đuka, Andreja; Poršinsky, Tomislav; Pentek, Tibor; Šporčić, Mario	<a href="#">Influence of Prescribed Method of Roundwood Scaling on Forwarder Efficiency</a>	Prescribed measurement of roundwood, mass, volume, forwarder.	E	Contractors and durable business	Andreja	Đuka	aduka@sumfak.hr	Forestry Faculty of Zagreb University, Department of Forest Engineering	Croatia
<a href="#">157</a>	Säaf Malin 1; Björheden Rolf 2	<a href="#">The communication process between contractors and clients</a>	Contractor forestry, communication process, business agreements	E	Contractors and durable business	Malin	Säaf	malin.saaf@skogforsk.se	Skogforsk	Sweden
<a href="#">219</a>	Elizabeth Dodson, Dale Greene, Shawn Baker, Steve Hayes	<a href="#">Logging Cost Indices for the United States</a>	Financial management; negotiation; financial planning; cost forecasting	E	Contractors and durable business	Elizabeth	Dodson	<a href="mailto:elizabeth.dodson@umontana.edu">elizabeth.dodson@umontana.edu</a>	University of Montana	USA
<a href="#">9</a>	Partington, Mark; Gillies, Clayton	<a href="#">Achieving successful road performance and reducing the environmental impact of resource roads in wetland environments</a>	Resource roads; forest roads; wetlands; soft soils; culvert foundations; road engineering; environmental impacts, hydrologic function	E	Forest roads and environment	Mark	Partington	mark.partington@fpinnovations.ca	FPInnovations	Canada

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ID	Authors	Title of the contribution	Keywords	Session	THEME	First Name	Family name	E-mail	Affiliation	Country
42	Pentek Tibor; Nevečerec Hrvoje; Poršinsky Tomislav; Šporčić Mario; Lepoglavec Kruno; Papa Ivica	<a href="#">Secondary opening of sloped terrain forests – a GIS study for timber skidding</a>	secondary forest opening, skid roads, sloped terrain, skidder, GIS	E	Forest roads and environment	Tibor	Pentek	pentek@sumfak.hr	Forestry Faculty of Zagreb University, Department of Forest Engineering	Croatia
92	Péterfalvi; Primusz; Markó; Kosztko	<a href="#">Evaluation of the Effect of Lime-Stabilized Subgrade on the Performance of an Experimental Road Pavement</a>	forest opening up, lime-stabilization, road test, bearing capacity	E	Forest roads and environment	József	Péterfalvi	jpeterfa@emk.nyme.hu	University of West Hungary, Faculty of Forestry, Institute of Geomatics and Civil Engineering	Hungary
174	Adrian Enache, Karl Stampfer, Bruce Talbot, Jan Bjerketvedt	<a href="#">Assessment of environmental performance and cost analysis of forest roads due to construction, maintenance and utilization – case studies in Romanian and Norwegian mountain forests</a>	forest roads, LCA, energy efficiency, forest operations	E	Forest roads and environment	Adrian	Enache	adrian.enache@boku.ac.at	BOKU	Austria
199	Kevin Boston, PhD, PE, RPF	<a href="#">Subgrade Strength Recovery in Forest Roads in Oregon</a>	road and water management	E	Forest roads and environment	Kevin	Boston	Kevin.boston@oregonstate.edu	Oregon Stat Uni. Department of Forest Engineering,	USA
37	Erber Gernot	<a href="#">Fuelwood moisture content management through meteorological data based modelling</a>	moisture content, modelling, fuel wood, supply chain performance	E	Fuelwood quality and moisture content management	Gernot	Erber	gernot.erber@boku.ac.at	BOKU	Austria
43	Routa Johanna and Sikanen Lauri	<a href="#">Precision Measurement of Forest Harvesting Residue Moisture Change and Dry Matter Losses by Constant Weight Monitoring</a>	energy wood, wood chips, quality, storing, natural drying, dry matter loss	E	Fuelwood quality and moisture content management	Johanna	Routa	johanna.routa@metla.fi	METLA	FINLAND
56	Fridh, Lars; Eliasson, Lars	<a href="#">An accurate and fast method for moisture content determination.</a>	biomass, forest fuel, chips, logging residues,	E	Fuelwood quality and moisture content management	Lars	Fridh	lars.fridh@skogforsk.se	Skogforsk	Sweden
74	Kuptz Daniel; Hartmann Hans	<a href="#">Energy efficient production of high quality wood chips using energy round wood instead of forest residues</a>	wood chip production; energy round wood; forest residues; fuel quality; energy consumption; ISO 17225-4; ash content; elemental composition; particle size	E	Fuelwood quality and moisture content management	Daniel	Kuptz	daniel.kuptz@tfz.bayern.de	Technologie- und Förderzentrum (TFZ)	Germany
116	Eirik Nordhagen, Simen Gjølsgj	<a href="#">Wood chip quality</a>	bioenergy, standards, wood chip, quality	E	Fuelwood quality and moisture content management	Eirik	Nordhagen	eno@skogoglandskap.no	Norwegian Forest and Landscape Institute	Norway
204	Eric Jessup - Juliana Walkiewicz - Matthias Dees	<a href="#">BioGas Woodchip Drying Innovation for Reduced Bioenergy Production Cost</a>	Biomass, Wood Chip, Drying, Supply-Chain, Production Costs, Innovative Technology, Transport, Logistics	E	Fuelwood quality and moisture content management	Juliana	Walkiewicz	<a href="mailto:juliana.walkiewicz@felis.uni-freiburg.de">juliana.walkiewicz@felis.uni-freiburg.de</a>	Albert-Ludwigs-Universität Freiburg	Germany
4	Mohammad Reza Ghaffariyan, Mauricio Acuna & Mark Brown	<a href="#">Biomass harvesting residue supply chain optimisation and verifying the effect of major parameters affecting the supply chain cost in Western Australia</a>	forest harvesting residues, biomass supply chain, operational costs, storage, moisture mass fraction	F	Looking for efficient bioenergy supply chains	Mohammad Reza	Ghaffariyan	<a href="mailto:ghafari901@yahoo.com">ghafari901@yahoo.com</a>	AFORA - University of the Sunshine Coast	Australia
7	Jingxin Wang, Damon Hartley	<a href="#">Optimizing Bioenergy Supply Chain Configurations for the Northeastern United States</a>	Supply Chain, Optimization, Biomass, Bioenergy	F	Looking for efficient bioenergy supply chains	Jingxin	Wang	jxwang@wvu.edu	West Virginia University	USA
54	Athanassiadis Dimitris, Enström Johanna, Mikael Öhman, Örjan Grönlund	<a href="#">Success factors for larger forest fuel terminals</a>	Terminals, forest fuel, best practice, establishment	F	Looking for efficient bioenergy supply chains	Johanna	Enström	johanna.enstrom@skogforsk.se	Skogforsk	Sweden
80	Alain BOUVET; Bernard PENZ; ...	<a href="#">Logistics optimization of a biomass supply chain</a>	Supply-chain	F	Looking for efficient bioenergy supply chains	Alain	BOUVET	alain.bouvet@fcba.fr	FCBA	FRANCE

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ID	Authors	Title of the contribution	Keywords	Session	THEME	First Name	Family name	E-mail	Affiliation	Country
194	Dominik Roser	<a href="#">Improving the efficiency of forest biomass supply chains in Canada</a>	bioenergy, integrated harvesting, thinning operations, technology & know-how transfer, forest biomass harvesting technology	F	Looking for efficient bioenergy supply chains	Dominik	Roser	dominik.roser@fpinnovations.ca	FPInnovations	Canada
94	ARICAK Burak; H. Hulusi ACAR; ALTUNEL Arif Oğuz; KURTİPEK Adem; ENEZ Korhan	<a href="#">How to Effectively Set up Cable Yarding Corridors: A Case Study of Central Turkish Example</a>	Cable yarding; LIDAR	F	Operational uses of remote sensing technologies for logging operation	BURAK	ARICAK	baricak@kastamonu.edu.tr	Kastamonu University	TURKEY
125	Philippe Meek, Jean-Martin Lussier	<a href="#">LiDAR Mapping as an Aid to Partial Cutting in Heterogeneous Stands.</a>	Lidar mapping, partial cut, tree selection, decision support, cost saving	F	Operational uses of remote sensing technologies for logging operation	Philippe	Meek	philippe.meek@fpinnovations.ca	FPInnovations	Canada
189	Robert Keefe and Lindsay Grayson	<a href="#">Applications of multi transmitter GPS-VHF in forest operations</a>	Forest operations, terramechanics, simulation	F	Operational uses of remote sensing technologies for logging operation	Robert	Keefe	robk@uidaho.edu	University of Idaho	USA
195	Søvde Nils Egil; Talbot Bruce; Bjerketvedt Jan; Pierzchala Marek	<a href="#">Variable extraction cost modelling on high resolution terrain models</a>	Forwarding; shortest path; steep terrain; logging,	F	Operational uses of remote sensing technologies for logging operation	Nils Egil	Søvde	nis@skogoglandskap.no	Norwegian Forest and Landscape Institute	Norway
209	Lars Wilhelmsson, Andreas Barth, Johan J Möller, John Arlinger, Rikard Hedberg, Ulf Söderman	<a href="#">A case study on the prediction of detailed product recovery from individual stem profiles based on airborne laser scanning and models for predicting wood and fibre properties and forest residues</a>	Case, ALS, field inventory, CTL-harvesters, value chain, product recovery, log properties, forest residues	F	Operational uses of remote sensing technologies for logging operation	Lars	Wilhelmsson	<a href="mailto:lars.wilhelmsson@skogforsk.se">lars.wilhelmsson@skogforsk.se</a>	Skogforsk	Sweden
38	Dinev Dinko, Vardunski Jelio	<a href="#">ANALYSIS OF THE FIRST STEPS IN THE INTRODUCTION OF THE HARVESTER AND THE FORWARDER IN LOGGING, IN BULGARIA</a>	logging, new technology, harvester, forwarder, productivity, operators, activity analysis	F	Workforce training and skills developments	Dinko	Dinev	dinevds@gmail.com	Oak Forest Experimental Station	Bulgaria
71	Šporčić Mario; Posavec Stjepan; Landekić Matija; Pentek Tibor; Poršinsky Tomislav	<a href="#">Development and Implementation of Innovations in Croatian Forestry</a>	Innovation, forestry, innovation policy, managing forest company, decision making, rationalisation, Croatia	F	Workforce training and skills developments	Mario	Šporčić	sporcic@sumfak.hr	Forestry Faculty of Zagreb University, Department of Forest Engineering	Croatia
86	Schoenherr Siegmarr; Hoffmann Stephan; Jaeger Dirk; Engler Benjamin	<a href="#">Successful training strategies for introducing cable yarding technologies in China</a>	Cable Yarding, Training, China	F	Workforce training and skills developments	Siegmarr	Schoenherr	<a href="mailto:siegmarr.schoenherr@fobawi.uni-freiburg.de">siegmarr.schoenherr@fobawi.uni-freiburg.de</a>	Chair of Forest Operations, University of Freiburg	Germany
183	Smidt; Xu; Zhang	<a href="#">An assessment of wage and skill level among logging equipment operators in the USA</a>	wage, skill, logging worker	F	Workforce training and skills developments	Mathew	Smidt	smidtmf@auburn.edu	Auburn University	USA
201	Fjeld, Erikson, Frisk, Lemieux, Marrier, Rönnqvist	<a href="#">University training for industrial wood supply</a>	forest operations education	F	Workforce training and skills developments	Dag	Fjeld	dag.fjeld@slu.se	SLU	Sweden
211	Dr. John J. Garland	<a href="#">The Limiting Factor in North American Forest Operations: A Skilled Workforce</a>	labor force, logging workforce, forestry services, recruitment, training	F	Workforce training and skills developments	John	Garland	<a href="mailto:johngarland49@gmail.com">johngarland49@gmail.com</a>	Consulting Forest Engineer	USA
72	Lideskog Håkan; Karlberg Magnus	<a href="#">Automatic clearcut obstacle identification using a time-of-flight camera</a>	clearcut obstacles, obstacle identification, site preparation, mounding, time-of-flight camera	P1	Ergonomics and Man-Machine co-developments	Håkan	Lideskog	hakan.lideskog@ltu.se	Luleå University of Technology, Division of Product and Production Development	Sweden
180	Sauter, Udo Hans; Foeller, Joerg	<a href="#">Terrestrial real-time navigation for harvesting machines</a>	Terrestrial machine navigation, real-time, radio-technology	P1	Ergonomics and Man-Machine co-developments	Udo Hans	Sauter	udo.sauter@forst.bwl.de	Forest Research Institute Baden-Wuerttemberg	Germany
22	Gilanipour Najibeh, Najafi Akbar; Heshmatolvaezin Seyed Mehdi	<a href="#">Optimum combination of animal and farm tractor skidding systems in log removing</a>	Skidding systems, Animal skidding, Farm tractor, Continuous time study, Multiple regression model, Hour cost, Hour productivity.	P1	From traditionnal to automated work studies	Akbar	Najafi	a.najafi@modares.ac.ir	Technical University in Zvolen	Slovakia
147	Nurek Tomasz	<a href="#">TIME STRUCTURE OF WORKING DAY WHILE PERFORMING WOOD HARVESTING - ECONOMIC VIEW</a>	Harvesting, planning, costs, wood	P1	From traditionnal to automated work studies	Tomasz	Nurek	tomasz_nurek@sggw.pl	Warsaw University of Life Sciences, Faculty of Production Engineering	Poland
150	Lindroos, Ola; Wadbro, Eddie	<a href="#">Scrutiny of factors affecting extraction distances of forwarders</a>	Distance, forwarding, extraction, forest hauling, prediction model, optimization	P1	From traditionnal to automated work studies	Ola	Lindroos	ola.lindroos@slu.se	SLU	Sweden
179	Ghajar Ismael; Naghdi Ramin; Nikooy Mehrdad; Yousefifard Sepideh	<a href="#">Mathematical Time Prediction Models of Loader HSM 904 Using Multiple Linear Regressions (MLR) and Adaptive Neuro Fuzzy Inference System (ANFIS)</a>	Loading; time prediction; forest operation; Fuzzy Inference System; Linear regression	P1	From traditionnal to automated work studies	Ismael	Ghajar	i.ghajar@guilan.ac.ir	Department of Forestry, Faculty of Natural Resources, University of Guilan	Iran



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ID	Authors	Title of the contribution	Keywords	Session	THEME	First Name	Family name	E-mail	Affiliation	Country
6	Laitila Juha; Väättäin Kari	<a href="#">The cutting productivity in integrated harvesting of pulpwood and delimbed energy wood with a forestry-equipped peat harvesting tractor</a>	time consumption models, first thinning, harvester, integrated harvesting, forestry-equipped peat harvesting tractors, peatlands	P1	Harvesting technics and working methods for biomass mobilization	Juha	Laitila	juha.laitila@metla.fi	METLA	Finland
20	Berg Simon, Nordfjell Tomas, Nurmi Juha	<a href="#">Ground disturbance and diameters of roots at breakage points after stump harvesting</a>	bioenergy, stump drill, conventional harvest, alternative technology	P1	Harvesting technics and working methods for biomass mobilization	Simon	Berg	simon.berg@slu.se	SLU	Sweden
33	Mitchell Rick, Strandgard Martin	<a href="#">Comparison of harvester time consumption and productivity in Eucalyptus globulus planted and second rotation coppiced plantations in south west Western Australia</a>	Harvester, coppice, planted, cycle times, productivity, stump volume, Eucalyptus globulus	P1	Harvesting technics and working methods for biomass mobilization	Rick	Mitchell	rmitchel@usc.edu.au	University of the Sunshine Coast	Australia
39	Trichkov Lyubcho, Dinev Dinko	<a href="#">STATE AND TRENDS FOR UTILIZATION OF THE WOOD BIOMASS FOR BIOFUELS IN BULGARIA</a>	wood biomass, bio-fuels, briquettes, pellets, charcoal, map of manufacturers, problems	P1	Harvesting technics and working methods for biomass mobilization	Dinko	Dinev	dinevds@gmail.com	Oak Forest Experimental Station	Bulgaria
59	Eliasson, Lars; Lombardini, Carolina; Widinghoff Jenny	<a href="#">Efficient chip supply systems improve chipper utilisation</a>	Biomass, Forest fuel, logistics, chip trucks	P1	Harvesting technics and working methods for biomass mobilization	Lars	Eliasson	lars.eliasson@skogforsk.se	Skogforsk	Sweden
76	Sonesson, Johan; Jacobson, Staffan; Eliasson, Lars; Wilhelmsson, Lars; Arlinger, John	<a href="#">Forest management systems for increased harvest of small trees for energy purposes.</a>	Scots pine; thinning; soil expectation value; forest fuel; biomass, log properties	P1	Harvesting technics and working methods for biomass mobilization	Lars	Eliasson	lars.eliasson@skogforsk.se	Skogforsk	Sweden
90	Richard Emeyriat ; Sébastien Cloarec ; Henri Husson ; Jean-Raymond Liarçou ; Jérôme Moreau	<a href="#">Harvesting of heart stumps from Poplar and Maritime Pine forest in South West France</a>	Biomass ; Woodchips ; Stumps ; Time studies	P1	Harvesting technics and working methods for biomass mobilization	Richard	EMEYRIAT	richard.emeyriat@foretlogistique.eu	FORET LOGISTIQUE CONSEIL	FRANCE
141	Magagnotti Natascia; Lombardini Carolina; Spinelli Raffaele	<a href="#">Comparing CTL with WT harvesting in the thinning of Mediterranean pine plantations</a>	Logging; Biomass; Chipping; Compaction; Stand damage	P1	Harvesting technics and working methods for biomass mobilization	Natascia	Magagnotti	magagnotti@ivalsa.cnr.it	CNR-IVALSA	Italy
159	Schulmeyer, Fabian; Hüttl, Karl	<a href="#">Survey of forest roadside wood chipping operations in Bavaria</a>	wood chipping, productivity, delays	P1	Harvesting technics and working methods for biomass mobilization	Fabian	Schulmeyer	fabian.schulmeyer@lwf.bayern.de	Bavarian State Institute of Forestry (LWF)	Germany
166	Spinelli Raffaele, Brown Mark, Giles Rick, Huxtable Dan, Laina Relaño Ruben, Magagnotti Natascia.	<a href="#">Biomass production from mallee agroforestry plantations in Western Australia</a>	mechanization; economics; energy; chips; belts	P1	Harvesting technics and working methods for biomass mobilization	Natascia	Magagnotti	magagnotti@ivalsa.cnr.it	CNR-IVALSA	Italy
193	Picchi Gianni, Giovanni Aminti, Raffaele Spinelli	<a href="#">A harvesting system for agricultural woody crops at plantation removal</a>	Biomass, chipper, plantations	P1	Harvesting technics and working methods for biomass mobilization	Gianni	Picchi	picchi@ivalsa.cnr.it	CNR-IVALSA	Italy
81	Ersson, Back Tomas; Jundén, Linus; Lindh, Mattias; Bergsten, Urban	<a href="#">Simulated Productivity of Conceptual, Multi-Headed Tree Planting Devices</a>	planting machine, mechanized tree planting, boom-tip planting head, discrete-event simulation, terrain model, SimPy, mounding, site preparation, scarification, silviculture	P1	Innovation-driven developments in harvesters and forwarders	Back Tomas	Ersson	back.tomas.ersson@slu.se	SLU	Sweden
101	Mahmoud Chakroun, Emmanuel Cacot	<a href="#">Using systematic innovation to develop a new hardwood harvesting tool</a>	hardwood harvesting, eco-design, methodology of innovation, TRIZ	P1	Innovation-driven developments in harvesters and forwarders	Mahmoud	Chakroun	mahmoud.chakroun@fcba.fr	FCBA	France
124	Zorić Marko, Horvat Dubravko, Šušnjar Marijan, Pandur Zdravko, Galović Josip	<a href="#">Morphological analysis of chainsaws – useful decision making tool</a>	morphological analysis, chainsaw	P1	Innovation-driven developments in harvesters and forwarders	Marko	Zorić	mzoric@sumfak.hr	Forestry Faculty of Zagreb University, Department of Forest Engineering	Croatia
220	Janine Schweier, Raffaele Spinelli and Gero Becker	<a href="#">Analyzing different machines for mechanized harvesting of hardwoods in Italy</a>	mechanized harvesting, hardwood	P1	Innovation-driven developments in harvesters and forwarders	Janine	Schweier	janine.schweier@fobawi.uni-freiburg.de	Albert-Ludwigs-Universität Freiburg	Germany
224	Catherine Collet	<a href="#">Mechanical tools for site preparation in forest plantation: networks of field sites for evaluating and promoting innovative methods!</a>		P1	Innovation-driven developments in harvesters and forwarders	Catherine	Collet	collet@nancy.inra.fr	INRA	France
14	Akay, Abdullah E. 1; Gulci, Nese 2; Gulci, Sercan 3;	<a href="#">A Chute System Integrated with Mobile Winch and Synthetic Rope to Extract Logs in Mountainous Regions</a>	Wood extraction, chute system, mobile winch, synthetic rope	P1	Logging in Steep terrain	Abdullah E.	Akay	akay@ksu.edu.tr	Kahramanmaraş Sutcu Imam University	TURKEY
48	Paul MAGAUD	<a href="#">Analyze of productivities data's for cable yarding in the French Alps</a>	cable yarding, time studies, productivity models, French Alps	P1	Logging in Steep terrain	Paul	MAGAUD	paul.magaud@fcba.fr	FCBA	France
121	Nordhagen, Gjølsjø, Belbo, Kjøstelsen	<a href="#">Recovery of logging residues from final harvest in steep terrain</a>	Bioenergy, logging residue, biomass functions, steep terrain, transport	P1	Logging in Steep terrain	Eirik	Nordhagen	eno@skogoglandskap.no	Norwegian Forest and Landscape Institute	Norway
173	Picchi Gianni, Huurinainen Seppo, Gort-Oromi Jaume, Nolan Enda, Keane Enda, Kuhmaier Martin, De Amicis Raffaele	<a href="#">Project SLOPE: introducing new technologies in mountain forest operations</a>	Steep terrain, harvest, cable yarder, precision forestry	P1	Logging in Steep terrain	Gianni	Picchi	picchi@ivalsa.cnr.it	CNR-IVALSA	Italy

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2	Jean-François Gingras, Martin Castonguay & Jean Favreau	<a href="#">Monitoring forest supply chains in remote areas using FPInnovations' FPSuite platform</a>	datalogger, on-board computer, harvesting, productivity, efficiency, supply chain	P1	Wood supply chain management and decision support tools	Jean-François	Gingras	jean-francois.gingras@fpinnovations.ca	FPInnovations	Canada
8	Amir Mohammad Abdolalian Sohi	<a href="#">Assessing Systematical Framework in Forest Products Supply Chain to Sustain Forest Industry</a>	Business Process, Interaction, Net Profit, Productivity, Shortage	P1	Wood supply chain management and decision support tools	Amir Mohammad	Abdolalian Sohi	amas_ci@yahoo.com	Islamic Azad University, Science & Research Branch, Tehran, Iran	IRAN
46	Müller	<a href="#">Development and Implementation of a Sustainability Performance Improvement Model on Transport and Logistics Chains in the French Forest Based Sector</a>	Transportation, Sustainable Logistics, Sustainable Supply Chain Management, Integration, Sustainability Performance	P1	Wood supply chain management and decision support tools	Frank	Müller	framue@gmail.com	FCBA	France
77	Brodbeck, Frank; Sauter Udo Hans	<a href="#">An information platform for forest harvesting technologies and working methods as decision support system for practitioners</a>	Decision support system, information platform, harvesting technologies, working methods, rating,	P1	Wood supply chain management and decision support tools	Frank	Brodbeck	Frank.Brodbeck@forst.bwl.de	Forest Research Institute of Baden-Wuerttemberg (FVA), Department of Forest Utilization	Germany
170	EKER, Mehmet; ÖNAL, Yunus Emre	<a href="#">LIFE CYCLE ANALYSIS FOR TECHNOLOGY SELECTION IN TIMBER HARVESTING</a>	LCA, timber harvesting, life cycle inventory, energy balance, technology selection	P1	Wood supply chain management and decision support tools	Mehmet	EKER	<a href="mailto:mehmeteker@sdu.edu.tr">mehmeteker@sdu.edu.tr</a>	Süleyman Demirel University, Faculty of Forestry	TURKEY
182	Christina Förster	<a href="#">Building models with the simulation software Witness.</a>	simulation, cableway system	P1	Wood supply chain management and decision support tools	Christina	Förster	foerster-christina@gmx.de	TU Dresden, Institut Forsttechnik	Germany
192	Grayson Lindsay; Keefe Robert	<a href="#">Development and Validation of a Physically Based Forest Operations Model</a>	Model, Equipment, Simulation, Geospatial	P1	Wood supply chain management and decision support tools	Lindsay	Grayson	gray7728@vandals.uidaho.edu	University of Idaho	USA
302	Jean Favreau	<a href="#">Improved trucking logistics in Canada: Great savings but limited uptake</a>	Fibre Flow, Transport Logistics, Value chain, Implementation	P1	Wood supply chain management and decision support tools	Jean	Favreau	<a href="mailto:Jean.Favreau@fpinnovations.ca">Jean.Favreau@fpinnovations.ca</a>	FPInnovations	Canada
61	Baker, Shawn; Greene, Dale	<a href="#">Logging Capacity Impacts to the US South, 2006-2012</a>	capacity, logging industry, employment, equipment age	P2	Contractors and durable business	Shawn	Baker	shbaker3@uga.edu	University of Georgia	USA
70	Ottaviani Aalmo Giovanna; Baardsen Sjur; ...	<a href="#">Environmental Factors Affecting Technical Efficiency in Norwegian Steep Terrain</a>	Steep terrain logging, Stochastic Frontier Analysis, Tower yarder productivity	P2	Forest operations: environmental concerns and natural hazards	Giovanna	Ottaviani Aalmo	gio@skogoglandskap.no	Norwegian Forest and Landscape Institute	Norway
181	Westlund Karin, Jönsson Petrus, Andersson Gert, Flisberg Patrik, Rönnqvist Mikael	<a href="#">Reducing land damages using optimization for efficient logging planning</a>	optimized logging trails, land damages, logging operations	P2	Forest operations: environmental concerns and natural hazards	Karin	Westlund	karin.westlund@skogforsk.se	Skogforsk	Sweden
15	Ersin DURSUN, H. Hulusi ACAR, Özgür GÖKSU	<a href="#">RECONSTRUCTION OF THE FOREST ROAD NETWORK MODEL IN THE CONVERSION OF THE COPPICE COMPANIES TO HIGH FOREST ENTERPRISES</a>	Coppice Companies, High Forest Enterprises, Forest Road Network, modeling studies	P2	Forest roads and environment	Hafiz Hulusi	Acar	hlsacar@ktu.edu.tr	Blacksea Technical University, Faculty of Forestry	TURKEY
19	Sattar Ezzati; Akbar Najafi	<a href="#">Spatial Multi Criteria Decision Making for Estimating Environmental Costs of Road Management Activities</a>	Forest road network, Fuzzy set theory, FHTOPSIS, FAHP, Hyrcanian forests	P2	Forest roads and environment	Akbar	Najafi	a.najafi@modares.ac.ir	Technical University in Zvolen	Slovakia
26	Turk Yilmaz; Gumus Selcuk; Ural Tarkan; Eker Remzi	<a href="#">Planning of Forest Roads with Plateia Software</a>	Forest Roads, Plateia Software, Road Planning.	P2	Forest roads and environment	Yilmaz	Turk	yilmazturk@duzce.edu.tr	Faculty of Forestry, Duzce University	TURKEY
27	Turk Yilmaz	<a href="#">Construction Method of Forest Roads in Turkey</a>	forest roads, construction method, Turkey	P2	Forest roads and environment	Yilmaz	Turk	yilmazturk@duzce.edu.tr	Faculty of Forestry, Duzce University	TURKEY
107	Ozturk Tolga	<a href="#">MISTAKE AND THEIR RESULTS TO POSITIONING AND SIZES OF DRAINAGE STRUCTURES AT FOREST ROADS</a>	Forest road, drainage structure, culvert, pipe, cross section, positioning, size	P2	Forest roads and environment	Tolga	Ozturk	tozturk@istanbul.edu.tr	Istanbul University, Faculty of Forestry	TURKEY
136	Ozer, Cigdem; Aricak, Burak; Altunel, Arif Oguz; Enez, Korhan	<a href="#">A Methodological Approach to the Determination of Forest Roads' Technical Competence</a>	Forest Roads, GIS, Variables	P2	Forest roads and environment	Cigdem	Ozer	<a href="mailto:cozer@kastamonu.edu.tr">cozer@kastamonu.edu.tr</a>	Kastamonu University	TURKEY
137	AKGUL MUSTAFA 1;	<a href="#">Using 3D Real Time Cad Applications in New Road Planning and Reengineering Applications</a>	Road Planning, 3D Real Time Cad Applications, Construction and earthworks cost	P2	Forest roads and environment	Mustafa	Akgül	makgul@istanbul.edu.tr	Istanbul University, Faculty of Forestry	TURKEY
171	ÇOBAN, H. Oğuz; EKER, Mehmet	<a href="#">GIS Based Strategy on Timber Transportation System in Mountainous Forest Regions</a>	Transportation, forest road, GIS, road analysis, mountainous forest	P2	Forest roads and environment	H. Oğuz	ÇOBAN	oguzcoban@sdu.edu.tr	Süleyman Demirel University, Faculty of Forestry	TURKEY
184	Bjerketvedt Jan	<a href="#">Forest Road Standard Registration</a>	forest roads, standard, LiDAR, GIS, GPS	P2	Forest roads and environment	Jan	Bjerketvedt	jan.bjerketvedt@skogoglandskap.no	Norwegian Forest and Landscape Institute	Norway
188	Drosos Vasileios C.	<a href="#">Analysis of existing road network in order to plan and configure a rationally managed one in Greek mountainous area</a>	management; improvement; forest road network	P2	Forest roads and environment	Vasileios	Drosos	vdrosos@fmenr.duth.gr	Democritus University of Thrace	Greece

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Contributions

ID	Authors	Title of the contribution	Keywords	Session	THEME	First Name	Family name	E-mail	Affiliation	Country
191	Robert Keefe	<a href="#">Design of the phase two portable rail project track: a new system to minimize site disturbance in specialized forest operations and recreational applications</a>	Portable rail project; handicap access, conveyor applications in forestry	P2	Forest roads and environment	Robert	Keefe	robk@uidaho.edu	University of Idaho	USA
25	Klvac Radomir 1; Kleibl Miroslav 2; Tsioras Petros 3; Cesek Tomas 4	<a href="#">Evapo-transpiration as an accelerating tool for seasoning – A case study</a>	Short Rotation Tree Species (SRTS), seasoning, evaporation, transpiration, thinning	P2	Fuelwood quality and moisture content management	Radomir	Klvac	klvac@mendelu.cz	Mendel University in Brno Faculty of Forestry and Wood Technology	Czech Republic
118	Grigolato Stefano; Sgarbossa Andrea; Zanetti Michela; Cosola Giulio; Cavalli Raffaele	<a href="#">Wood chips characterization for small boiler in the Italy</a>	woodchips, fuel quality, chipping, European standard, forest biomass	P2	Fuelwood quality and moisture content management	Stefano	Grigolato	stefano.grigolato@unipd.it	University of Padova - TESAF Department	Italy
128	Spinelli Raffaele; Magagnotti Natascia	<a href="#">Long term performance of industrial chipping operations</a>	Biomass; Energy; Black-Box; Comminution; Fuel	P2	Fuelwood quality and moisture content management	Raffaele	Spinelli	spinelli@ivalsa.cnr.it	CNR-IVALSA	Italy
11	Sánchez-García Sandra; Prendes Covadonga; Canga Elena; Majada Juan.	<a href="#">CREATION OF GEODATABASE USING GEOGRAPHICAL INFORMATION SYSTEMS (GIS): ITS INTEGRATION IN FOREST ROAD NETWORK AND APPLICATION IN CALCULATING BIOMASS SUPPLY CHAIN COSTS - CASE STUDY FROM NORTHERN SPAIN</a>	Biomass supply, road network, GIS, Spain.	P2	Looking for efficient bioenergy supply chains	SANDRA	SÁNCHEZ GARCÍA	ssanchez@cetemas.es	CETEMAS (Forest and Wood Technology Research Centre)	Spain
78	Fernandez-Lacruz, R., Di Fulvio, F., Athanassiadis, D., Bergström, D. & Nordfjell, T.	<a href="#">Biomass potential from young-dense stands in Sweden and road hauling to industries</a>	GIS analysis, early thinning, small tree, bioenergy, transport distance, wood fuel supply chain	P2	Looking for efficient bioenergy supply chains	Raul	Fernandez-Lacruz	raul.fernandez@slu.se	SLU	Sweden
82	Belbo Helmer; Talbot Bruce	<a href="#">Systems comparison of 10 supply chains for whole tree chips.</a>	Biomass supply, forest energy, supply chain analysis, supply modelling	P2	Looking for efficient bioenergy supply chains	Helmer	Belbo	beh@skogoglandskap.no	Norwegian Forest and Landscape Institute	Norway
89	Nicolas Bilot, Meriem Fournier, Holger Wernsdörfer, Yann Rogeume	<a href="#">Simulation of forest energy chips provision chain from the stand to the heating plant – Characterisation of the energy efficiency and minerals exportation.</a>	“Wood chips”, “Forest management”, “Forest mechanisation”, “Energy balance”, “Mineral exportation”, “Forest residuals”, “Simulation tool”.	P2	Looking for efficient bioenergy supply chains	Nicolas	Bilot	nicolas.bilot@nancy.inra.fr	INRA Centre de nancy Lorraine	France
153	Asmoarp Victor	<a href="#">Evaluation of terminal strategies by flow optimization</a>	Forest fuels, flow optimization, terminal, multi modal transportation	P2	Looking for efficient bioenergy supply chains	Victor	Asmoarp	victor.asmoarp@skogforsk.se	Skogforsk	Sweden
206	Matthias Dees, Eric Jessup	<a href="#">Feasibility of Adapting Existing Forestry Practices for Improved Biomass Production</a>	Biomass, Harvest, Supply-Chain, Production Costs, Technology	P2	Looking for efficient bioenergy supply chains	Matthias	Dees	<a href="mailto:matthias.dees@felis.uni-freiburg.de">matthias.dees@felis.uni-freiburg.de</a>	Albert-Ludwigs-Universität Freiburg	Germany
28	Arif Oguz Altunel, Oytun Emre Sakici, Burak Aricak, Cigdem Ozer	<a href="#">The Effectiveness of Topographic Earth Representations in Forest Engineering</a>	DEM, forestry, harvest planning	P2	Operational uses of remote sensing technologies for logging operation	Arif Oguz	Altunel	aoaltunel@kastamonu.edu.tr	Kastamonu University	TURKEY
30	Erdem, Ramazan; Altunel, Arif Oguz; Erdin, Kadir	<a href="#">The Comparison of different GPS devices in Turkish forestry practices</a>	GPS, spatial accuracy, forest boundary	P2	Operational uses of remote sensing technologies for logging operation	Ramazan	Erdem	rerdem@kastamonu.edu.tr	Kastamonu University	TURKEY
163	Naghdi Ramin; Ghajar Ismael; AbasianAbdollah	<a href="#">Modeling the landslide susceptibility of a mountainous forest using Artificial Neural Network</a>	risk assessment; ANN, frequency ratio, neuron, hidden layer	P2	Operational uses of remote sensing technologies for logging operation	Ramin	Naghdi	rnaghdi@guilan.ac.ir	Department of Forestry, Faculty of Natural Resources, University of Guilan	Iran
51	Fründ H.C., Averdiek A., Kohn C., Müller-Inkmann M., Hemker O., von Dressler H., Gaertig T.	<a href="#">Skidding tracks as forest infrastructure – promoting natural regeneration processes with regard to economic and ecological issues</a>	: Harvesting, soil compaction, soil protection, soil regeneration, management of skidding tracks	P2	Trafficability practices and understanding of forest soil characteristics	Heinz-Christian	Fründ	hc.fruend@hs-osnabrueck.de	Hochschule Osnabrück University of Applied Sciences	Germany
123	Sven Pasemann, Heribert Jacke, Jörg Hittenbeck	<a href="#">Influence of wheel load and wheel slip on rutting in forest operations</a>	rutting, wheel slip, wheel load	P2	Trafficability practices and understanding of forest soil characteristics	Sven	Pasemann	sven.pasemann@forst.thueringen.de	ThüringenForst	Germany
149	Lamminen Sami; Väätäinen Kari; Ala-Illomäki Jari; Sirén Matti; Asikainen Antti	<a href="#">LoggingMap – concept for better planning of logging trail network in rough terrain conditions</a>	Logging trail planning, harvesting, GIS,	P2	Trafficability practices and understanding of forest soil characteristics	Sami	Lamminen	sami.lamminen@metla.fi	METLA	Finland

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ID	Authors	Title of the contribution	Keywords	Session	THEME	First Name	Family name	E-mail	Affiliation	Country
<a href="#">197</a>	Lazdina Dagnija, Lazdins Andis	<a href="#">Wet and dryed forest site regeneration by mounding in Latvia</a>	planting, mound, soil preparation	P2	Trafficability practices and understanding of forest soil characteristics	Dagnija	Lazdina	dagnija.lazdina@gmail.com	LSFRI Silava	Latvia
<a href="#">202</a>	Demir Murat	<a href="#">Why does not increase the level of forest mechanization in Turkey? Problems, Solutions and Opportunities</a>	Forest mechanization, Forest harvesting, Timber transportation, Turkey	P2	Workforce training and skills developments	Murat	Demir	mdemir@istanbul.edu.tr	Istanbul University, Faculty of Forestry	TURKEY
<a href="#">207</a>	Vincent Morillon, Matthieu Bonnemazou	<a href="#">ExploTIC: a progressive implementation through training and collective dialogue</a>	Wood supply chain, ICT deployment, StanForD data exchange, Harvester data, France.	P2	Workforce training and skills developments	Vincent	Morillon	<a href="mailto:vincent.morillon@fcba.fr">vincent.morillon@fcba.fr</a>	FCBA	France
<a href="#">K1</a>	Magnus Thor	<a href="#">Prospects and Challenges for Forest Harvesting technologies in Europe</a>		Plenary	Keynote	Magnus	Thor	<a href="mailto:magnus.thor@skogforsk.se">magnus.thor@skogforsk.se</a>	Skogforsk	Sweden
<a href="#">K2</a>	Nathalie Fabbe-Costes	<a href="#">Collaborative logistics: improving business relationships and supply chain visibility to propel the forest value chain</a>		Plenary	Keynote	Nathalie	Fabbe-Costes	<a href="mailto:nathalie.fabbe-costes@univ-amu.fr">nathalie.fabbe-costes@univ-amu.fr</a>	CRET-LOG Aix-Marseille University	France
<a href="#">K3</a>	Woodam Chung	<a href="#">Forest Ecosystem Management Issues and Opportunities in the United States</a>		Plenary	Keynote	Woodam	Chung	<a href="mailto:Woodam.Chung@oregonstate.edu">Woodam.Chung@oregonstate.edu</a>	Oregon State University	USA
<a href="#">K4</a>	Marcos Wichert	<a href="#">Insights on the changes operated in forest value-chain management in South America</a>		Plenary	Keynote	Marcos Cesar Passos	Wichert	<a href="mailto:marcos.wichert@fibria.com.br">marcos.wichert@fibria.com.br</a>	FIBRIA Pulp - Forestry Operations	Brazil
<a href="#">152</a>	Lindroos, Ola; de Hoop, Cornelis N.; Pyles, Marvin R.; Zundel, Pierre; Rickards, Jeremy	<a href="#">25 years of International Journal of Forest Engineering</a>	Development, scientific journal, peer-review, research, publication, editor, history, future.	Plenary	Plenary	Ola	Lindroos	ola.lindroos@slu.se	SLU	Sweden
<b>161</b>	<b>sous total</b>									