

Forest engineering in Japan

Japan Forest Engineering Society



森林利用学会

The Japan Forest Engineering Society



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This session will be held at the invitation by the Division 3 coordinator of Prof. Woodam Chung to introduce "Forest engineering in Japan". In this session, five speakers from the Japan Forest Engineering Society give a five-minute talk on their recent research work of forest engineering in Japan. The contents will be: Road network and transportation, Road engineering and management, Forest ergonomics, Operations system analysis and modeling, Supply chain management, Forest operations ecology, Forest operations in difficult terrain, as well as Forest robotics and digital forest operations.

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1. Introduction of JFES and Recent Research Topics (Video)
Prof. Masahiro IWAOKA
(Tokyo University of Agriculture and Technology)
2. Ergonomics (Video)
Prof. Yozo YAMADA (Ehime University)
3. Difficult Terrain in Japan: Status and Challenges
Prof. Yasushi SUZUKI (Kochi University)
4. Woody Biomass Harvesting and Utilization
Prof. Takuyuki YOSHIOKA (The University of Tokyo)
5. Forest Operation System and Availability Estimation
Prof. Kazuhiro ARUGA (Utsunomiya University)

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Cable logging and biomass harvesting in mountainous areas by Kazuhiro Aruga



January 29, 2004



October 21, 2015

Prof. Masahiro IWAOKA



Prof. Iwaoka is the President of JFES and was in charge of general affairs for the 132nd annual meeting of the Japan Forest Society. He has been working on forest machinery, forestry operations, energy use of woody biomass, and environmental impacts of mechanized forestry operations. He is also a qualified FSC auditor by Soil Association.

Prof. Yozo YAMADA



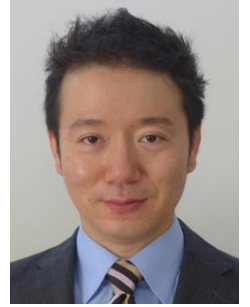
Prof. Yamada is the Vice-President of JFES and the deputy coordinator of the Working Group 3.03.00 “Forest Ergonomics”. He is also an editor of Jurnal Manajemen Hutan Tropika (JMHT), and a guest editor of the special issue “Productivity and safety of final cutting on mountain forests” in International Journal of Forest Engineering. He held two international meetings in Japan in 2012 and 2017; the International Ergonomic Workshop of RG3.03.00 at Nagoya and the Joint Regional Meeting of RG3.03.00 and RG3.06.00 in Asia at Matsuyama and Kochi.

Prof. Yasushi SUZUKI



Prof. Suzuki is a board member of JFES and the deputy coordinator of the Research Group 3.06.00 "Forest operations on difficult terrain". He also contributes national and international scientific journals, i.e., Journal of JFES as the editor in chief, Jurnal Manajemen Hutan Tropika (JMHT) as a section editor, and Forests as a reviewer board member as well as International Journal of Forest Engineering as a guest editor of the special issue "Productivity and safety of final cutting on mountain forests".

Prof. Takuyuki YOSHIOKA



Prof. Yoshioka is a board member of JFES and currently works at Laboratory of Forest Utilization, The Univ. of Tokyo. His main research topic is economics, energy, and emissions of supply chains for forest biomass resources such as logging residues, small-diameter trees, short rotation woody crops (SRWC). He stayed at UC Davis in 2013 under the supervision of Prof. Bruce Hartsough, and has been a member of COFE since 2013.

Prof. Kazuhiro ARUGA



Prof. Aruga is a board member of JFES and the coordinator of the Working Party 3.01.01 "Road networks and transportation". He is also an editorial board member of national and international scientific journals such as the Journal of JFES, International Journal of Forest Engineering, European Journal of Forest Engineering, and Forestist as well as a guest editor of the special issues such as "Availability Estimation and Supply Chain Management of Unused Woody Materials" in the Journal of the Japan Forest Society and "Forest Sustainability: Wood Yield and Biomass Utilization" in the Forests.