

## Poster Presentations

**Friday, 2 December 19:00 - 20:30**

**Saturday, 3 December 13:00 - 15:00**

- P1 O.V. Bondarenko: — Age variability of the *Quercus mongolica* (Fagaceae) wood anatomy
- P2 Jennifer A. Evans, Peter Gasson, Gwilym P. Lewis: — Wood anatomy of the Mimosoideae (Leguminosae)
- P3 L. Joshi: — Comparative Wood Anatomy of Nepalese Ulmaceae
- P4 Jiayan Luo: — Anatomy of Cassava (*Mahihot esculenta* Crants) woody stem
- P5 Ismail Jusoh, D. Pascal Kamdem, Siti Nurasmah Abu Samat: — Anatomical characteristics of normal and tension wood in rubberwood (*Hevea brasiliensis*)
- P6 Erika Amano, Veronica Angyalossy: — The phloem of Brazilwood, *Caesalpinia echinata* (Leguminosae): characterization and development
- P7 Arsenio B. Ella, Mario M. Maruzzo: — Comparative bark and wood anatomy of resin yielding and non-yielding of some Philippine *Canarium* species
- P8 Shinya Koga, Yasuhiro Utsumi, Naoaki Tashiro, Atsushi Yamamoto, Yukie Saitoh, Takanori Arima, Hirokazu Yamamoto, Masahiko Kadomatsu, Nao Sakanoue: — Effect of bark decortication for hiwada production on growth and wood properties of *Chamaecyparis obtusa*
- P9 Jacqueline Bond, Lloyd Donaldson, Roderick Ball, Grant Holden, David Cown: — Variation in resin canals and resinous blemishes: Developing an assessment method for radiata pine
- P10 Chunhua Zhang, Minoru Fujita, Hisashi Abe, Takeshi Fujiwara: — Radial resin canals in *Pinus densiflora*
- P11 Seki Masanori, Kobayashi Kazutaka, Suzuki Mitsuo: — Structure and continuity of gas spaces in stilt root of *Rhizophora stylosa* Griff
- P12 Ryouta Tsuchiya, Ikuo Furukawa: — Xylem rays development of 15 Japanese hardwoods
- P13 Yoshiyuki Ogata, Minoru Fujita, Naoki Okada, Somkid Siripatanadilok: — New anatomical method of wood grain measurement, applying to a cross section of *Hopea odorata*

- P14 Hiroya Ohbayashi, Takao Momoi, Toshiro Tochigi, Jun Kobayashi: — Evaluation of machined surface by the belt-sanding at the cellular level
- P15 Yuichiro Oribe: — Relations between wood formation and bud break in ring-porous and diffuse-porous wood trees.
- P16 K. Rameshkannan, R.A. Savidge: — In vitro cambial growth and xylogenesis of *Paulownia*
- P17 Kazuho Yamaguchi, Chuji Uyeki: — A new way to observe the foot print of the dedifferentiation and re-differentiation of cambium -bandage method-
- P18 Shahanara Begum, Satoshi Nakaba, Yuichiro Oribe, Takafumi Kubo, Ryo Funada: — Effect of localized heating on cambial reactivation in deciduous diffuse porous hardwood hybrid poplar (*Populus sieboldii* x *P. grandidentata*)
- P19 Jong Sik Kim, Kwang Ho Lee, and Yoon Soo Kim: — Anatomical characteristics of compatible graft union in comparison with incompatible graft combinations
- P20 Kwang Ho Lee, Karumanchi S. Rao, Jong Sik Kim and Yoon Soo Kim: — Ultrastructural characteristics of *Pinus thunbergii* affected by freezing stress
- P21 Junko Takahashi, Tatsuya Awano, Åsa Kallas, Fredrik Berthold, Tuula T. Teeri, Björn Sundberg, Ewa Mellerowicz: — Exploring the role of xylanase in wood formation
- P22 Yafang Yin, Xiaoli Liu, Xiaomei Jiang, Chao Qu: — Lignin deposition in differentiating xylem cell walls of normal wood of *Eucalyptus urophylla* x *E. grandis* plantation at different growth stresses level
- P23 Taku Muramatsu, Satoko Yoshihiji, Arata Yoshinaga: — Polyclonal antibodies directed against coniferaldehyde and sinapic acid and their use in immunolabeling in differentiating xylem of *Chamaecyparis obtusa* and *Betula grossa*
- P24 S. Nakaba, R. Funada, T. Kubo: — The pattern of cell death of ray parenchyma cells in conifers
- P25 Yukiko Yamada, Tatsuya Awano, Minoru Fujita: — Changes in organelles of wood fiber during cell death
- P26 Takemichi Niro, Naoki Okada, Tadashi Nobuchi, Somkid Siripatanadilok, Teera Veenin: — The changes of water conductivity at different height of Dipterocarpaceae trees in tropical seasonal forest of Thailand
- P27 Masamichi Sugihara, Hisashi Abe, Kanahiro Kitayama, Tatsuyuki Seino, Naoki Okada: — Xylem anatomy and water relations of tropical rain forest trees on different geological substrates on Mount Kinabalu, Borneo
- P28 Masaki Tateno, Haruhiko Taneda: — Analysis of conduit system obeying Murray's law
- P29 Toshihiro Umebayashi, Yasuhiro Utsumi, Shinya Koga, Susumu Inoue, Yasuki Shiiba,

- Junji Matsumura, Kazuyuki Oda: — Water-conducting pathway of broadleaf deciduous trees in temperate zone
- P30 Ryogo Nakada: — Seasonal change of water amount in the living stem of *Cryptomeria japonica* observed with lateral impact vibration method.
- P31 Sayaka Takahashi, Tadashi Nobuchi and Naoki Okada: — Vessel formation and phenology of ten deciduous broad-leaved trees -A comparison between ring-porous and diffuse-porous species-
- P32 Kazutaka Kobayashi, Mitsuo Suzuki: — New resin-casting method for the observation of vessel continuity
- P33 Akira Kagawa, Atsuko Sugimoto, Trofim C. Maximov: — Seasonal course of translocation, storage and remobilization of  $^{13}\text{C}$  pulse-labelled photosynthates in *Larix gmelinii* in relation to isotope dendroclimatology
- P34 Hitoshi Yonenobu, Satoru Tsuchikawa, Hirotaka Oda: — A new, non-destructive dating method using near-infrared spectroscopy and its calibration by Hinoki cypress tree-ring chronology
- P35 Yasuharu Hoshino, Hitoshi Yonenobu, Koh Yasue, Yoshihiro Nobori, Takumi Mitsutani: — Climatic response of radial growth of Japanese beech (*Fagus crenata* Blume) grown in north-eastern Japan
- P36 Koh Yasue, Joni Kujansuu, Takuya Kajimoto, Yuichiro Nakai, A.P Abaimov, Yojiro Matsuura: — Two years observation on seasonal changes in radial growth of *Larix gmelinii* in central Siberia
- P37 Takao Momoi, Hiroya Ohbayashi, Toshiro Tochigi, Jun Kobayashi: — Dendroclimatological information and annual ring formation of *Abies firma* in Okutama
- P38 Hitoshi Yonenobu, Motonari Ohyama, Takumi Mitsutani: — Practical guidelines of dendrochronological dating for archaeologically important tree species in Japan
- P39 Hitoshi Yonenobu, Katsuya Gotanda, Takeshi Nakagawa, Pavel E. Tarasov and Yoshinori Yasuda: — Reconstruction of warm-season precipitation for north-west Pacific using the *Picea ajanensis* ring-width chronology for Sakhalin Island.
- P40 Noah Kaneko, Motonari Ohyama, Megumi Owada, Mitsuo Suzuki: — Chronology development of Hiba Arbor-Vitae (*Thujaopsis dolabrata hondai*) from northern Honshu island, Japan
- P41 Motonari Ohyama, Hitoshi Yonenobu, Dieter Eckstein, Madoka Hanzawa, Mitsuo Suzuki: — Dendroclimatic research of Japanese Cedar (*Cryptomeria japonica* D.Don) from north-eastern Japan
- P42 Yojung Kim, Sangkyu Kim, Won-Kyu Park: — Tree-ring dating of Korean furniture and woodcrafts of the 19th and 20th centuries

- P43 Chiharu Shimada, Koh Yasue, Takashi Takeda, Morihiko Tokumoto: — A 1011-year chronology of ring width of Yakusugi (*Cryptomeria japonica*) and its response to climatic factors
- P44 David Goldblum and Lesley S. Rigg: — The application of dendrochronology to assess the potential impact of climate change on forests at the deciduous/boreal forest ecotone, Canada
- P45 Joni Kujansuu, Koh Yasue, Takayoshi Koike, Anatoly P. Abaimov, Takuya Kajimoto, Takashi Takeda, Morihiko Tokumoto, Yojiro Matsuura: — Responses of *Larix gmelinii* radial growth to climate in contrasting north- and south-facing slopes in central Siberia
- P46 Lena Marion, Jožica Gričar, Primož Oven: — Influence of urban environment on cambial activity and wood formation in *Aesculus hippocastanum* L.
- P47 Y. Watanabe, N. Eguchi, R. Funada, T. Koike: — Change in wood structure of hardwoods growing in Free Air CO<sub>2</sub> Enrichment (FACE) system
- P48 João Carlos F. Melo Jr., Gregório Ceccantini, Cleusa Bona: — Ecological wood anatomy of *Copaifera langsdorffii* from different substrates in a Brazilian “cerrado”
- P49 H. Motomura, S. Noshiro, M. Mikage: — Ecological trends in tracheary element lengths of *Ephedra pachyclada* Boiss. (Gnetales: Ephedraceae) in the Mustang district, western Nepal
- P50 Fábio Minoru Yamaji, Ricardo Marques Barreiros, Carlos Alberto Oliveira de Matos, José Leonardo de Moraes Gonçalves: — Sewage biosolids effects on wood anatomy of *Eucalyptus grandis* in Brazil.
- P51 Takeshi Furuno, Hisatada Akahane: — Rapid silicification of wood in a hot spring water: recent silicified wood and experimental silicification of wood
- P52 Jun Arikawa, Junji Matumura, Kazuyuki Oda: — The observation of shrinkage of wood tissues by CLSM: Effect of sample size on interaction between earlywood and latewood
- P53 Adya Singh, Bernard Dawson: — Examination of coated rough-textured *Pinus radiata* plywood surface by correlative light, confocal and scanning electron microscopy
- P54 Adya Singh, Elizabeth Dunningham, Tatjana Smolic, Jacqueline Bond: — FE-SEM characterisation of cell deformations and cell wall fractures in compressed *Pinus radiata* veneers
- P55 Homayoun Soleymani Ashtiani: — Mechanical properties of particleboard manufacture from poplar wood
- P56 Junji Sugiyama, Bruno Clair, Tancrede Almeras, Hiroyuki Yamamoto, the late Takeshi Okuyama: — Mechanical state of cellulose microfibrils in wood
- P57 Futoshi Ishiguri, Ryusei Matsui, Kazuya Iizuka, Shinso Yokota, Nobuo Yoshizawa: — Stress-wave velocity of standing trees and wood quality in Japanese larch (*Larix*

*kaempferi*)

- P58 Chunwon Kang: — Changes in structural properties and sound absorption capability of wood by delignification treatment
- P59 Erwin, Won-Joung Hwang, Miyuki Takeuchi, Takao Itoh, Yuji Imamura: — Observations of decayed xylem of stem canker on light red meranti (*Shorea smithiana* Sym.)
- P60 Katsushi Kuroda, Kana Yamashita, Takeshi Fujiwara, Yasuhiko Hirakawa: — Is water loss in the tracheids associated with the death of xylem ray parenchyma cells in heartwood-forming xylem of *Cryptomeria japonica*?
- P61 Sanni Raiskila, Pekka Saranpää, Kurt Fagerstedt: — The effect of growth rate on wood properties in three cutting clones of Norway spruce (*Picea abies* [L.] Karst.)
- P62 Harri Mäkinen, Risto Ojansuu, Tuula Jaakkola, Pekka Saranpää, Jari Hynynen, Annikki Mäkelä: — Predicting wood and branch properties of Norway spruce from simple stand and tree properties
- P63 Matti-P. Sarén, Mika Sorjonen, Riikka Piispanen, Pekka Saranpää: — Determination of radial tracheid size and cell wall thickness in a cross-section of Norway spruce (*Picea abies* [L.] Karst.) by laser diffraction
- P64 Lloyd Donaldson, Armin Wagner, Lorelle Phillips, Judy Moody: — Reduced lignification of normal and compression wood in genetically modified *Pinus radiata*
- P65 Kazuya Iizuka, Futoshi Ishiguri, Jose Carlos de Mello, Masahiro Kubota, Shinso Yokota, Nobuo Yoshizawa: — Variation of wood quality in the second generation- plus trees of *Eucalyptus grandis* growing in Uruguay
- P66 Yasuhisa Ojio, Hiroyuki Yamamoto, Masato Yoshida, Sri Nugroho Marsoem, Morio Tsuchiya, Kenji Matsune, Kentaro Nakamura, Yoshihiko Inoue: — Influence of growth rate on xylem properties of some fast-growing species
- P67 Imam Wahyudi: — Within-tree variation in anatomical and selected physical-mechanical properties in manii (*Maesopsis eminii* Engl.) wood planted in indonesia
- P68 Imam Wahyudi, Istie Sekartining Rahayu: — Wood anatomy of light-red meranti (*Shorea leprosula* Miq.) from plantation
- P69 Katsuhiko Takata, Peter Kitin, Bambang Subiyanto, Hiroyuki Yano: — Variation of fiber length depending on cambial age of *Acacia mangium* grown in Sumatra Island, Indonesia
- P70 Katsuhiko Takata, Sandor Feher, Satoshi Ito, Yukio Teraoka, Shinya Koga, Osamu Kobayashi: — MOE performance of 25 plus tree clones of Japanese cedar grown in difference sites

- P71 Denes Varga, Katsuhiko Takata, Sandor Feher, Peter Kitin, Levente Csoka: — Relationship between wood density and cell features in plus tree clones of Japanese cedar grown in different sites
- P72 Kana Yamashita, Naoki Okada, Koichi Kamo: — Effect of crown on radial growth of Japanese cypress.
- P73 Elvina O.Bondad: — Properties of three plantation species:affecting solid wood bending
- P74 Siti Susilawati, Sri Nugroho Marsoem: — Physical properties variation of *Eucalyptus pellita* in Seedling Seed Orchard Pleihari, South Kalimantan, Indonesia
- P75 Sang-Hyo Han, Won-Kyu Park: — Species identification and tool-trace analysis of wooden artifacts excavated from Sabi era, Baekje, Korea
- P76 Kyung-Hee Kim, Won-Kyu Park, Yojung Kim: — Species and anatomical characteristics of straw shoes from Goongnamji and Gwanbukri relics, Baekje kingdom
- P77 Soo-Chul Kim and Won-Kyu Park: — Species identification of archaeological woods excavated from Daho-ri, Changwon, Southern Korea
- P78 Won-Kyu Park, Kyung-Hee Kim, Yo-Jung Kim, Yung Jo Lee: — The species of charcoals excavated from Gunang Cave, Danyang in central Korea
- P79 Yi Qing Qi: — Study on the relationship between wood material culture and Chinese traditional furniture culture
- P80 S.Suzuki, S. Noshiro: — Timber usage during the early modern Edo Period deduced from the materials and forms of wooden coffins in Edo (Tokyo)
- P81 Y. Sasaki, S. Noshiro: — Usage of *Rhus verniciflua* trees for lacquer collection and lowland construction during the Jomon Period in Japan
- P82 Naoko Kizawa , Shigehumi Okamoto, Takao Itoh: — The wood species of the pit building in the late Yayoi period (2nd century A.D), excavated in the Yaominami site, Osaka, Japan
- P83 Miho Kojima, Takeshi Furuno, Takao Itoh: — The wood species used in traditional wooden buildings:the Golden Hall (Kondo) of Toshodai-ji Temple
- P84 Misao Yokoyama, Hajime Shorimachi, Shigeru Kubodera, Shuichi Kawai, Takao Itoh: — Wood identification of traditional Japanese architectures in Kyoto
- P85 Tsutomu Takahashi: — Timber selection for housing construction deduced from excavated charcoal from the Mt.Haruna, Gunma, central Japan
- P86 Sangeeta Gupta, S.P.Kulshreshta: — ‘Wood Anatomy Information System (WAIS)’-An expert system for wood identification and classification from India.

- P87 E.A. Wheeler, S.L. Rodgers, T.D. Simpson, J.A. Bartlett, P.E. Gasson, P. Baas, J. Ilic, K.R. Brown: — InsideWood: An internet accessible wood anatomy database
- P88 Riikka Piispanen, Stefan Willför, Bjarne Holmbom, Pekka Saranpää: — Variation of lignans in Norway spruce (*Picea abies* (L.) Karst.) knots: within-stem and geographic variation and the effect of fertilisation
- P89 Sakae Shibutani, Katsuhiko Takata, Shuichi Doi: — Variation of heartwood extractives from plus tree clones of Japanese cedar grown in different sites
- P90 Satoshi Tomita, Hiroshi Matsunaga, Junji Mtsamura, Kazuyuki Oda, Syunji Tsushima: — Potassium localization in black heartwood of Sugi (*Cryptomeria japonica*) cultivars and clone