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| **Author(s):** | Wilfred A. Côté |
| **Title:** | **earl Henri De Zeeuw** |
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| **Title:** | **Diversity of Pacific Basin Woods in Past, Present and Future** |
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| **Author(s):** | Editors IAWA Journal |
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| **Author(s):** | Editors IAWA Journal |
| **Title:** | **Conifers - Morphology and Variation. M. Vidakovic, 775 pp., illus., 1991. Graficka Zavod Hrvatske, Croatia. - Available exclusively from CAB International, Wallingford, Oxon OX10 8DE, U.K. ISBN 0-85198- 8075. Price: UK£ 65.00 (hard cover).** |
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| **Author(s):** | Editors IAWA Journal |
| **Title:** | **Science and technology of wood - structure, properties, utilization. G. Tsoumis, xiii + 494 pp., illus., 1991. Van Nostrand Reinhold, New York. Price: US$ 59.95 (hardbound). ISBN 0-442-23985-8.** |
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| **Author(s):** | Brigitte Vian; Jean-Claude Roland; Danièle Reis; Michèle Mosiniak |
| **Title:** | **Distribution and Possible Morphogenetic Role of the Xylans Within the Secondary Vessel Wall of Linden Wood** |
| **Source:** | IAWA Bulletin NS, Volume 13, Issue 3 |
| **Publication Year:** | 1992 |
| **Pages:** | 269-282 |
| **Keywords:** | xylan; affinodetection; Tilia; xylanase; low-dimensional solid; cell wall; vessel |
| **Abstract:** | The topochemistry of xylans was studied at the ultrastructural level in vessels of the wood of linden (Tilia plaryphyllos Scop.), by using an affinodetection method (xylan asegold labelling) and the cationic gold labelling for acidic charges. |
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| **Author(s):** | Keiji Takabe; Takaharu Miyauchi; Kazumi Fukazawa |
| **Title:** | **Cell Wall Formation of Compression Wood in Todo Fir (Abies Sacharinensis) - I. Deposition of Polysaccharides** |
| **Source:** | IAWA Bulletin NS, Volume 13, Issue 3 |
| **Publication Year:** | 1992 |
| **Pages:** | 283-296 |
| **Keywords:** | Compression wood; helical ridges and cavities; Golgi-vesic1e; cell wall |
| **Abstract:** | Cell wall formation, particularly deposition of polysaccharides, of compression wood in Todo fir (Abies sacharinensis) was examined by either fluorescence and ultraviolet microscopy or by transmission electron microscopy coupled with cytochemical staining. |
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| **Author(s):** | B.P. Deshpande; A.K. Vishwakarma |
| **Title:** | **Calcium Oxalate Crystals in the Fusiform Cells of the Cambium of Gmelina Arborea** |
| **Source:** | IAWA Bulletin NS, Volume 13, Issue 3 |
| **Publication Year:** | 1992 |
| **Pages:** | 297-300 |
| **Keywords:** | Gmelina; secondary phloem; calcium oxalate; cambium |
| **Abstract:** | Short, needle-shaped calcium oxalate crystals have been observed in the fusiform cells throughout the cambial zone in the bark of Gmelina arborea Roxb., a deciduous tree in western India. They are similar to the crystals found in ray cells of the cambium and in axial and ray parenchyma cells in the secondary phloem of this tree. The crystals are most abundant when the cambium is inactive. During the period of meristernatic activity there is an overall reduction in their density in the bark, particularly in the inner bark where fusiform cambial cells and axial parenchyma cells in the conducting zone of phloem appear practically free of any crystals. However, ray initials and their derivatives in the phloem possess some crystals at all times. The occurrence of calcium oxalate deposits in a meristem and the reversible nature of these deposits support the view that they represent areserve of calcium rather than a waste product. |
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| **Author(s):** | Jun Ohtani; Yutaka Saitoh; Jing Wu; Kazumi Fukazawa; Shao qun Xiao |
| **Title:** | **Perforation Plates in Knema Furfuracea (Myristicaceae)** |
| **Source:** | IAWA Bulletin NS, Volume 13, Issue 3 |
| **Publication Year:** | 1992 |
| **Pages:** | 301-306 |
| **Keywords:** | SEM; Myristicaceae; Knema furfuracea; perforation plates |
| **Abstract:** | Various fonns of perforation plates were found in Knema furfuracea (Hook. f. et Th.) Warb.: scalariform perforation plates, reticulate perforation plates, intermediates between scalariform and reticulate, and other multiperforate plates. These plates were paired in various combinations. Scalariform perforation plates and pairs of such plates were predominant and the remaining plate pairs were of lower occurrence and irregularly distributed in the xylem. Their morphology is illustrated by SEM micrographs. |
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| **Author(s):** | Shu-Yin Zhang; Pieter Baas; Marinus Zandee |
| **Title:** | **Wood Structure of the Rosaceae in Relation to Ecology, Habit and Phenology** |
| **Source:** | IAWA Bulletin NS, Volume 13, Issue 3 |
| **Publication Year:** | 1992 |
| **Pages:** | 307-349 |
| **Keywords:** | developmental wood anatomy; functional; rays; habit; phenology; Ecological; vessels; crystals; ring-porosity; evolution; Rosaceae; systematics |
| **Abstract:** | Twelve wood anatornical characters, together with broad parameters from ecology, habit and phenology were subjected to simple correlation analysis, path analysis and principal component analysis, in a total sampie of over 470 specimens belonging to 271 species of the Rosaceae from the entire distribution area of the farnily. The functional, developmental and systematic implications of the resulting relations are discussed. Based on the present analysis of ecological trends and previous phylogenetic analysis, a tentative scenario for the evolution of the Rosaceae is offered. |
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| **Author(s):** | Editors IAWA Journal |
| **Title:** | **Holz, Jahrringe und Weltgeschehen. Flitz H. Schweingruber ' Werner H. Schoch, 143 pp., illus., 1992. Lignum, Schweizerische Arbeitsgemeinschaft für das Holz, Zürich ' Baufachverlag AG, CH-8953 Dietikon. ISBN 3-85565-235-X. Price: SF 68.00 (hard cover).** |
| **Source:** | IAWA Bulletin NS, Volume 13, Issue 3 |
| **Publication Year:** | 1992 |
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| **Author(s):** | Editors IAWA Journal |
| **Title:** | **Kapital Wald - Eine ökologische Bestandsaufnahme in Bildern. Margret WenzelJelinek (editor and photography), 287 pp., including 192 colour plates, 1992. Spektrum Akademischer Verlag, Heidelberg, Berlin, New York. ISBN 3-86025-040-X. Price unknown (hard cover).** |
| **Source:** | IAWA Bulletin NS, Volume 13, Issue 3 |
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| **Title:** | **Wood Anatomy News** |
| **Source:** | IAWA Bulletin NS, Volume 13, Issue 3 |
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| **Author(s):** | Editors IAWA Journal |
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| **Source:** | IAWA Bulletin NS, Volume 13, Issue 3 |
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