

List of contents of **News Bulletin** and **Bulletin** of the IAWA (1965–1969), **IAWA Bulletin** (1970–1979), **IAWA Bulletin** new series vol. 1–13 (1980–1992) and **IAWA Journal** vol. 14–20 (1993–1999)

For the contents of IAWA Journal vol. 21–24, with abstracts, see <http://www.iawa-web.org>

**News Bulletin** and **Bulletin** of the IAWA 1965–1969

- Bariska, M. — Some internal changes in ammonia treated woody materials — Bulletin 1969/2: 3  
Bosshard, H.H. — Notes on the biology of heartwood formation — News Bulletin 1966/1: 11  
Bosshard, H.H. & Bariska, M. — Statistical analysis of the wood structure of beech (*Fagus sylvatica* L.) — Bulletin 1967/1: 7  
Brazier, J.D. — Timber identification — News Bulletin 1966/2: 3  
Brazier, J.D. — Research on young plantation timber — News Bulletin 1966/2: 9  
Brazier, J.D. — Timber appraisal at Princes Risborough — Bulletin 1968/1: 1  
Frey-Wyssling, A., López-Sáez, J.F. & Mühlethaler, K. — Formation and development of the cell plate – a review — News Bulletin 1965/1: 4  
Nečesaný, V. — The effect of some growth substances on the cell wall structure — Bulletin 1969/1: 1  
Norberg, P.H. & Meier, H. — The gelatinous layer in tension wood fibres of aspen (*Populus tremula* L.) — News Bulletin 1966/1: 3  
Phillips, E.W.J. — The use of beta-particle radiation methods in timber research — News Bulletin 1966/2: 17  
Phillips, E.W.J. — Co-operative work on tropical timbers — Bulletin 1968/2: 8  
Schmidt, E. — Forest botanical studies in eastern Bolivia — News Bulletin 1965/2: 8  
Tomlinson, P.B. & Zimmermann, M.H. — The “wood” of monocotyledons — Bulletin 1967/2: 4  
Zavarin, E. — Monoterpeneoids of Coniferales — Bulletin 1968/1: 3  
Zimmermann, M.H. — Physiological aspects of wood anatomy — Bulletin 1968/2: 11  
Zimmermann, M.H. & Tomlinson, P.B. — A method for the analysis of the course of vessels in wood — Bulletin 1967/1: 2

**IAWA Bulletin 1970–1971**

- Antoine, R.C., Agella, T. & Van Eyseren, J.C. — Studies of wood treated by high doses of  $\gamma$ -radiation — 1971/4: 11  
Hyland, F. — A miniature saw for the preparation of woody specimens in microtechnique — 1971/2: 3  
Jutte, S.M. & Levy, J.F. — Scanning reflection electron microscopy in studies of wood structure and its degradation — 1971/2: 3  
Keith, C.T. — Observations on the anatomy and fine structure of the trabeculae of Sanio — 1971/3: 3  
Laming, P.B. & Ter Welle, B.J.H. — Anomalous tangential pitting in *Picea abies* Karst. (European spruce) — 1971/4: 3  
Mann, P. — Rapid method for rough-trimming specimen blocks for electron microscopy — 1971/2: 10  
Stahel, J.B. — The influence of different media on root growth in seedlings of *Pinus sylvestris* L. — 1970/1: 3

**IAWA Bulletin 1972**

- Butterfield, B.G. & Meylan, B.A. — Trabeculae in a hardwood — 1972/1: 3  
Butterfield, B.G. & Meylan, B.A. — Intervessel pit membranes in *Knightia excelsa* R.Br. — 1972/4: 3  
De Zeeuw, C. & Gray, R.L. — Specific gravity variation in *Gmelina arborea* Roxb. — 1972/3: 3  
Jutte, S.M. & Levy, J.F. — Compression wood in *Pinus ponderosa* Laws. — A scanning electron microscopy study — 1972/2: 3  
Parameswaran, N. & Liese, W. — Studies on bark anatomy — 1972/3: 12  
Stahle, J.B. — Callus-like tissue in *Piptadeniastrum africanum* (Hook.f.) Brenan — 1972/1: 10  
Timell, T.E. — Nature of the last-formed tracheids in compression wood — 1972/4: 10

**IAWA Bulletin 1973**

- Cockrell, R.A. — The effect of specimen preparation on compression wood and normal latewood pits and wall configurations of giant sequoia — 1973/4: 19  
Coles, R.W. — Ultrastructural changes in ammonia-plasticized Corsican pine — 1973/4: 3  
Gray, R.L. — Multiseriate rays in Redwood [*Sequoia sempervirens* (D.Don) Endl.] — 1973/1: 7  
Isebrands, J.G. & Larson, P.R. — Some observations on the cambial zone in cottonwood — 1973/3: 3  
Lantican, C.B. & Hughes, J.F. — A rapid method for specimen preparation and for measurement of cell cross sectional dimensions — 1973/4: 11

- Mennega, A.M.W. — An unusual type of parenchyma strand occurring in the wood of *Cedrelinga catenaeformis* Ducke (Mimosaceae) — 1973/1: 3
- Meylan, B.A. & Butterfield, B.G. — A trabecula with a vested pit — 1973/3: 12
- Parham, R.A. — Intertracheid membranes in softwood xylem — 1973/1: 9
- Parham, R.A. & Kaustinen, H. — On the morphology of spiral thickenings — 1973/2: 8
- Petrić, B. & Šćukanec, V. — Volume percentage of tissues in wood of conifers grown in Yugoslavia — 1973/2: 3

### **IAWA Bulletin 1974**

- Baas, P. & Van der Graaff, N.A. — Wood structure in relation to latitudinal and altitudinal distribution — 1974/3: 3
- Butterfield, B.G. & Meylan, B.A. — Vestured vessel and fibre pits in *Persoonia toru* A.Cunn. (Proteaceae) — 1974/1: 10
- Chafe, S.C. — Cell wall thickenings in the ray parenchyma of yellow cypress — 1974/2: 3
- Gray, R.L. & Côté, W.A. — SEM/EDXA as a diagnostic tool for wood and its inclusions — 1974/3: 6
- Gray, R.L. & DeZeeuw, C.H. — Terminology for multiperforate plates in vessel elements — 1974/2: 22
- Höster, H.R. — On the nature of the first-formed tracheids in compression wood — 1974/1: 3
- Isebrands, J.G. & Parham, R.A. — Slip planes and minute compression failures in kraft pulp from *Populus* tension wood — 1974/1: 16
- Laming, P.B. — Some notes on longitudinal epithelium in the xylem of spruce (*Picea* species), with special reference to the pitting — 1974/4: 8
- Meyer, R.W. — An improved solvent-extraction apparatus for preparing direct carbon replicas — 1974/3: 12
- Parameswaran, N. & Liese, W. — Vestured pits in vessels and tracheids of *Gnetum* — 1974/4: 3
- Tsoumis, G. — Anatomical characteristics of Redwood [*Sequoia sempervirens* (D.Don) Endl.] of seed and sprout origin — 1974/2: 11
- Wetmore, R.H. & Barghoorn, E.S. — The Harvard wood collection — 1974/2: 17

### **IAWA Bulletin 1975**

- Bolton, A.J., Jardin, P. & Jones, G.L. — Interstitial spaces — A review and observations on some Araucariaceae — 1975: 23
- Butterfield, B.G. — Terminology used for describing the cambium — 1975: 13
- Butterfield, B.G. & Meylan, B.A. — Simple to scalariform combination perforation plates in *Vitex lucens* Kirk (Verbenaceae) and *Brachyglottis repanda* J.R. et G. Forst. (Compositae) — 1975: 39
- Fahn, A. — A burned wood specimen from an archaeological excavation in Jerusalem — 1975: 23
- Kučera, L. & Bosshard, H.H. — The presence of biserrate rays in fir (*Abies alba* Mill.) — 1975: 51
- Parameswaran, N. & Liese, W. — On the polylamellate structure of parenchyma wall in *Phyllostachys edulis* Riv. — 1975: 57
- Petrić, B. & Šćukanec, V. — Ray tissue percentages in wood of Yugoslavian hardwoods — 1975: 43

### **IAWA Bulletin 1976**

- Audenaert, W.N. & Taylor, F.W. — The exterior morphology of vessel elements — 1976: 9
- Chauret, G. & Perem, E. — The development of microscopic separations in red pine and white spruce — 1976: 4
- Denne, M.P. & Ledsham, N. — The production of bordered pits on the tangential walls of *Picea sitchensis* tracheids — 1976: 3
- Harris, R.A. — Characterization of compression wood severity in *Pinus echinata* Mill. — 1976: 47
- Koek-Noorman, J. — Juvenile characters in the wood of certain Rubiaceae with special reference to *Rubia fruticosa* Ait. — 1976: 38
- Schmid, R. — The elusive cambium — another terminological contribution — 1976: 51
- Ter Welle, B.J.H. — On the occurrence of silica grains in the secondary xylem of the Chrysobalanaceae — 1976: 19
- Van Vliet, G.J.C.M. — Radial vessels in rays — 1976: 35

### **IAWA Bulletin 1977**

- Baas, P. — The peculiar wood structure of *Leptospermum crassipes* Lehm. (Myrtaceae) — 1977: 25
- Bamber, R.K. — What's going on in wood anatomy — 1977: 56
- Bamber, R.K. & Sangster, D.F. — Observations on the sectioning characteristics of normal and gamma-irradiated conifer wood — 1977: 12
- Czaninski, Y. — Vessel-associated cells — 1977: 51
- Denne, M.P. — Some effects of wounding on tracheid differentiation in *Picea sitchensis* — 1977: 49

- Giraud, B. — Statistical analysis of wood structure variation as related to distance from the pith in *Entandrophragma utile* (Meliaceae) — 1977: 71
- Jutte, S.M. — A wood anatomical contribution to the understanding of vascular wilt disease — 1977: 77
- Kučera, L.J. — Modified tracheids adjacent to wound tissue in *Pseudowintera colorata* (Winteraceae) — 1977: 10
- Kučera, L.J. — Tracheids in the pith of yew (*Taxus baccata* L.) — 1977: 67
- Kučera, L.J., Meylan, B.A. & Butterfield, B.G. — Vestured simple perforation plates — 1977: 3
- Leney, L. & Moore, L.D. — Traumatic resin canals in western hemlock, *Tsuga heterophylla* (Raf.) Sarg. — 1977: 23
- Miller, R.B. — Vestured pits in Boraginaceae — 1977: 43
- Richter, H.G. — Differential staining of oil and mucilage in idioblasts of Lauraceae — 1977: 76
- Schmid, R. — Tracheary element secondary wall patterns and the definition of protoxylem and metaxylem — 1977: 7
- Ščukanec, V. & Petrič, B. — The relationship between wood ray shape and ray volume percentage in beech — 1977: 57
- Ter Welle, B.J.H. & Mennega, A.M.W. — On the presence of large styloids in the secondary xylem of the genus *Henriettea* (Melastomataceae) — 1977: 31

## IAWA Bulletin 1978

- Bridgewater, S.D. & Baas, P. — Wood Anatomy of the Punicaceae — 1978: 3
- Frey-Wyssling, A. — The concept of the primary cell wall — 1978: 78
- Goosen-de Roo, L. & Van Spronsen, P.C. — Electron microscopy of the active cambial zone of *Fraxinus excelsior* L. — 1978: 59
- Gregory, R.A. — Living elements of the conducting secondary xylem of sugar maple (*Acer saccharum* Marsh.) — 1978: 65
- Kučera, L.J. — Vascular nodules in the pith of yew (*Taxus baccata* L.) — 1978: 81
- Kuo, M.-L. & Arganbright, D.G. — SEM observation of collapse in wood — 1978: 40
- Manchester, S.R. & Miller, R.B. — Tile cells and their occurrence in Malvanean fossil woods — 1978: 23
- Parameswaran, N. & Liese, W. — A note on the fine structure of protoxylem elements in bamboo — 1978: 29
- Roland, J.-C. — Early differences between radial walls and tangential walls of actively growing cambial zone — 1978: 7
- Stern, W.L. — A retrospective view of comparative anatomy, phylogeny, and plant taxonomy — 1978: 33
- Yang, Kung-Chi — The fine structure of pits in yellow birch (*Betula alleghaniensis* Britton) — 1978: 71
- Zweypfennig, R.C.V.J. — A hypothesis on the function of vestured pits — 1978: 13

## IAWA Bulletin 1979

- Akachuku, A.E. & Burley, J. — Variation of wood anatomy of *Gmelina arborea* Roxb. in Nigerian plantations — 1979: 94
- Annergren, G. & Treiber, E. — Sulphate cooking of oriented chips — An aid in wood anatomy studies? — 1979: 91
- Baas, P. — The peculiar wood structure of *Vaccinium lucidum* (Bl.) Miq. (Ericaceae) — 1979: 11
- Babos, K. — Fibre characteristics of some Cuban hardwoods — 1979: 61
- Bamber, R.K. — Longitudinal parenchyma and resin plugs in Araucariaceae wood — 1979: 75
- Bamber, R.K. & Summerville, R. — Taxonomic significance of sclerified tissue in the barks of Lauraceae — 1979: 69
- Baretta-Kuipers, T. — Wood anatomy of *Archidendron* F.v.Mueller, Mimosoideae, Leguminosae — 1979: 47
- Bartholin, Th. — The *Picea-Larix* problem — 1979: 7
- Bramhall, A.E. & Kellogg, R.M. — Anatomy of secondary phloem of western hemlock, *Tsuga heterophylla* (Raf.) Sarg. — 1979: 79
- Colville, J., Baas, P., Hoikka, V. & Vainio, K. — Wood anatomy and the use of carbonised wood as a matrix for bone regeneration in animals — 1979: 3
- Dickison, W.C. — A note on the wood anatomy of *Dillenia* (Dilleniaceae) — 1979: 57
- Lanyon, J.W. — The wood anatomy of three Proteaceous timbers — *Placospermum coriaceum*, *Dilobeia thouarsii* and *Garnieria spathulaefolia* — 1979: 27
- Parameswaran, N. — A note on the fine structure of trabeculae in *Agathis alba* — 1979: 17
- Parameswaran, N. & Liese, W. — Crystal-containing walls of spicular cells in *Welwitschia* — 1979: 87
- Turner, S.H., Bush, A.P. & Bolton, A.J. — A note on the spatial relationship between rays and axial resin canals in *Picea abies* — 1979: 19
- Wagenführ, R. — A structural peculiarity of *Antiaris africana* Engl. — 1979: 86
- Zimmermann, M.H. — The discovery of tylose formation by a Viennese Lady in 1845 — 1979: 51

## IAWA Bulletin new series — Volume 1 (1980)

- Armstrong, J.E. & Wilson, T.K. — Wood anatomy of *Horsfieldia* (Myristicaceae) — 1: 121
- Baas, P. — Reliability and citation of wood specimens — 1: 72

- Cassens, D.L. — Vestured pits in the New World *Pithecellobium* (sensu lato) — 1: 59  
 Den Outer, R.W. & Van Veenendaal, W.L.H. — Wood and bark anatomy of *Alluaudia* (Didiereaceae) from Madagascar — 1: 133  
 Gibson, A.C. — Wood anatomy of *Thornea*, including some comparisons with other Hypericaceae — 1: 87  
 Giraud, B. — Correlation between wood anatomical characters in *Entandrophragma utile* (Meliaceae) — 1: 73  
 Gottwald, H. — ‘Louro Preto’ - Found to be the first silica-bearing *Cordia* (*Cordia glabrata*, Boraginaceae) — 1: 55  
 Gregory, M. — Wood identification: An annotated bibliography — 1: 3  
 Huber, F. — An enzymatic method to facilitate quantitative studies of wood with an image analyser — 1: 185  
 Koeppen, R.C. — Silica bodies in wood of arborescent Leguminosae — 1: 180  
 Kukachka, B.F. & R.B. Miller — A chemical spot-test for aluminum and its value in wood identification — 1: 104  
 Leclercq, A. — Relationships between Beechwood anatomy and its physico-mechanical properties — 1: 65  
 Mariaux, A. — Formation of silica grains in wood as a function of growth rate — 1: 140  
 Miller, R.B. — Wood identification via computer — 1: 154  
 Parameswaran, N. — Some remarks on the nomenclature of fibres, sclereids and fibre- sclereids in de secondary phloem of trees — 1: 130  
 Phelps, J.E., McGinnes Jr, E.A., Saniewski, M., Pieniazek, J. & Smolinski, M. — Some anatomical observations on the effect of morphactin IT 3456 and Ethrel on wood formation in *Salix fragilis* L. — 1: 76  
 Quirk, J.T. — Wood anatomy of the Vochysiaceae — 1: 172  
 Robbertse, P.J., Venter, G. & Janse van Rensburg, H. — The wood anatomy of the South African *Acacias* — 1: 93  
 Sieber, M. & Kučera, L.J. — On the stem anatomy of *Clematis vitalba* L. — 1: 49  
 Sudo, S. — Some anatomical properties and density of the stem of coconut palm (*Cocos nucifera*), with consideration for pulp quality — 1: 161  
 Swart, J.P.J. — Non-destructive wood sampling methods from living trees: A literature survey — 1: 42  
 Takizawa, T., Takahashi, M.. & Kawaguchi, N. — A note on the distribution of radial resin canals in *Larix leptolepis* Gord. — 1: 111  
 Ter Welle, B.J.H. — Cystoliths in the secondary xylem of *Sparattanthelium* (Hernandiaceae) — 1: 43  
 Timell, T.E. — Karl Gustav Sanio and the first scientific description of compression wood — 1: 147  
 Topper, S.M.C. & Koek-Noorman, J. — The occurrence of axial latex tubes in the secondary xylem of some species of *Artocarpus* J.R. & G. Forster (Moraceae) — 1: 113

#### **IAWA Bulletin new series — Volume 2 (1981)**

- Baas, P. — On some wood collections of historical interest — 2: 45  
 Baas, P. & Laming, P.B. — The International Association of Wood Anatomists after 50 years — 2: 2  
 Baas, P. & Werker, E. — A new record of vestured pits in Cistaceae — 2: 41  
 Barajas Morales, J. — Descriptions and notes on the wood anatomy of Boraginaceae from western Mexico — 2: 61  
 Catesson, A.M. & Roland, J.C. — Sequential changes associated with cell wall formation and fusion in the vascular cambium — 2: 151  
 Den Outer, R.W. & Schütz, P.R. — Wood anatomy of *Apeiba* (Tiliaceae) — 2: 187  
 El-Osta, M.L.M., El-Lakany, M.H. & Megahed, M.M. — Anatomical characteristics of some *Casuarina* species grown in Egypt — 2: 95  
 Fisher, J.B. — Wound healing by exposed secondary xylem in *Adansonia* (Bombacaceae) — 2: 193  
 Giraud, B. — On the special nature of vessel perforation in *Hieronyma andina* P. & H. (Euphorbiaceae) — 2: 43  
 Gregory, R.A. — A rapid method of estimating the relative amount of vascular ray tissue — 2: 77  
 IAWA Committee — Standard List of characters suitable for computerized hardwood identification (with explanation of coding procedure and characters by R.B. Miller) — 2: 99  
 Larson, P.R. & Goffinet, M.C. — Advance of the primary-secondary vascular transition zone during dormancy induction of *Populus deltoides* — 2: 25  
 Nazma, B. Sundarsivarao & Rao, R. Vijendra — Occurrence of perforated ray cells in the wood of *Drypetes roxburghii* (Wall.) Hurusawa — 2: 201  
 Nilsson, T. — Helical orientation of the microfibrils in fibres of *Mastixiodendron pachyclados* (K. Schum.) Melch. — 2: 186  
 Parameswaran, N. & Liese, W. — Torus-like structures in interfibre pits of *Prunus* and *Pyrus* — 2: 89  
 Parameswaran, N. & Vidal Gomes, A. — Fine structural aspects of helical thickenings and pits in vessels of *Ligustrum lucidum* Ait. (Oleaceae) — 2: 179  
 Pearson, R.G. & Wheeler, E.A. — Computer identification of hardwood species — 2: 37  
 Richter, H.G. — Wood and bark anatomy of Lauraceae. I. *Aniba Aublet* — 2: 79  
 Shah, J.J., Baqui, S., Pandalai, R.C. & Patel, K.R. — Histochemical changes in *Acacia nilotica* L. during transition from sapwood to heartwood — 2: 31

- Tippett, J.T. & Shigo, A..L. — Barrier zone formation: A mechanism of tree defence against vascular pathogens — 2: 163
- Van den Oever, L., Baas, P. & Zandee, M. — Comparative wood anatomy of *Symplocos* and latitude and altitude of provenance — 2: 3
- Werker, E. & Baas, P. — Trabeculae of Sanio in secondary tissues of *Inula viscosa* (L.) Desf. and *Salvia fruticosa* Mill. — 2: 69
- Wheeler, E.A. — Intervascular pitting in *Fraxinus americana* L. — 2: 169

**IAWA Bulletin** new series — Volume 3 (1982)

- Baas, P. — Antoni van Leeuwenhoek and his observation on the structure of the woody cell wall — 3: 3
- Baas, P. — Wood anatomy in a declining world economy — 3: 126
- Bhat, K.M. — A note on cellular proportions and basic density of lateral roots in birch — 3: 89
- Bhat, K.M. — Anatomy, basic density and shrinkage of birch bark — 3: 207
- Botosso, P.C. & Vidal Gomes, A. — Radial vessels and series of perforated ray cells in Annonaceae — 3: 39
- Bridgwater, S. & Baas, P. — Wood anatomy of *Xanthophyllum Roxb.* — 3: 115
- Carlquist, S. — Wood anatomy of Cephalotaceae — 3: 175
- Catesson, A.M., Moreau, M. & Duval, J.C. — Distribution and ultrastructural characteristics of vessel contact cells in the stem xylem of carnation — 3: 11
- Chan, Lek-Lim, Ellis, E.L. & Butterfield, B.G. — A note on L- and T-shaped parenchyma cells in the phloem of *Dacrydium cupressinum* Lamb. (Podocarpaceae) — 3: 177
- Cichan, M.A. & Taylor, T.N. — Vascular cambium development in *Sphenophyllum*: a carboniferous arthropolyte — 3: 155
- Dave, Y.S. & Rao, K.S. — Seasonal activity of the vascular cambium in *Gmelina arborea* Roxb. — 3: 59
- Donaldson, L.A. — Abnormal rays in the wood of eucalypts — 3: 214
- Ferrand, J.-Ch. — A note on the intercellular spaces in the wood of *Adenopetalum biglandulosum* (Cunoniaceae) — 3: 66
- Fink, S. — Adventitious root primordia — The cause of abnormally xylem rays in hard- and softwoods — 3: 31
- Ford, B.J. — The origins of plant anatomy - Leeuwenhoek's cork sections examined — 3: 7
- Frey-Wyssling, A. — Introduction to the Symposium: Cell wall structure and biogenesis (XIIIth International Botanical Congress) — 3: 25
- Fukazawa, K. & Ohtani, J. — Within-a-tree variation of wood element size in *Tilia japonica* — 3: 201
- Gale, R. — Some pitfalls in wood identification, with reference to *Nothofagus* — 3: 179
- Gottwald, H. — First description of the wood anatomy of *Antrophora*, *Lepidocordia* and *Pteleocarpa* (Boraginaceae) — 3: 161
- Kellogg, R.M., Rowe, S., Koeppen, R.C. & Miller, R.B. — Identification of the wood of the soft pines of western North America — 3: 95
- Meylan, B.A. & Butterfield, B.G. — Pit membrane structure in the vessel-less woods of *Pseudowintera Dandy* (Winteraceae) — 3: 167
- Micko, M.M., Yanchuk, A.D., Wang, E.I.C. & Taylor, F.W. — Computerised measurement of fibre length — 3: 111
- Mio, S. & Matsumoto, T. — A note on parent cell walls in coniferous woods — 3: 56
- Parameswaran, N. & Conrad, H. — Wood and bark anatomy of *Balanites aegyptiaca* in relation to ecology and taxonomy — 3: 75
- Phelps, J.E., Isebrands, J.G. & Jowett, D. — Raw material quality of short-rotation, intensively cultured *Populus* clones. I. A comparison of stem and branch properties at three spacings — 3: 193
- Richter, H.G. — The wood structure of *Couratari* Aubl. and *Couroupita* Aubl. (Lecythidaceae) — 3: 45
- Rudall, P.J. — An unusual type of perforation plate in *Canthium barbatum* (Rubiaceae) — 3: 127
- Scott, R.A. & Wheeler, E.A. — Fossil wood from the Eocene Clarno Formation of Oregon — 3: 135
- Shah, J.J., Nair, G.M. & Kothari, I.L. — Ultrastructural changes in the gum-resin ducts of the bark of *Commiphora wightii* (Arnott) Bhandari induced by mechanical injury — 3: 185
- Ter Welle, B.J.H. — The future of the IAWA in a declining world economy — 3: 134
- Ter Welle, B.J.H. & Van Rooden, J. — Systematic wood anatomy of *Desmopsis*, *Sapranthus* and *Stenanona* (Annonaceae) — 3: 15
- Zimmerman, M.H. & Potter, D. — Vessel-length distribution in branches, stem and roots of *Acer rubrum* L. — 3: 103

**IAWA Bulletin** new series — Volume 4 (1983)

- Baas, P. — The anatomical method - A century later — 4: 160
- Baas, P. — Wood anatomy in China — 4: 196
- Baas, P., Werker, E. & Fahn, A. — Some ecological trends in vessel characters — 4: 141
- Bhat, K.M. — A note on aggregate rays of *Betula* species — 4: 183

- Bhat, K.V. & Bhat, K.M. — Anatomical changes associated with interlocked grain in *Anacardium occidentale* L. — 4: 179
- Catesson, A.M. — A cytochemical investigation of the lateral walls of *Dianthus* vessels. Differentiation and pit-membrane formation — 4: 89
- Chavan, R.R., Shah, J.J. & Patel, K.R. — Isolated sieve tube(s)/elements in the barks of some Angiosperms — 4: 255
- Cumbie, B.G. — Developmental changes in the wood of *Bocconia vulcanica* Donn. Smith — 4: 131
- Den Outer, R.W. & Van Veenendaal, W.L.H. — Wood anatomy of *Uncarina leandrii* H. Humb. (Pedaliaceae) and its relation to Bignoniaceae — 4: 53
- Furuno, T. & Côté, W.A. — Observation of cell inclusions in Papua New Guinea wood by means of SEM/EDXA — 4: 219
- Gardner, D.J. & Taylor, F.W. — A technique for observing the exterior morphology of intact vessel conduits — 4: 113
- Gómes-Vázquez, B.G. & Engleman, E.M. — Wood anatomy of *Bursera longipes* and *Bursera copallifera* — 4: 207
- Gottwald, H. — Wood anatomical studies of Boraginaceae (s.l.) I. Cordioidae — 4: 161
- Iqbal, M. & Ghouse, A.K.M. — An analytical study on cell size variation in some arid zone trees of India: *Acacia nilotica* and *Prosopis spicigera* — 4: 46
- Mathew, L. & Shah, G.L. — Vestured pits and warts in Verbenaceae — 4: 39
- Nair, M.N.B. & Chavan, R.R. — Nuclear changes in the ageing ray parenchyma cells in relation to heartwood formation — 4: 265
- Nair, M.N.B. & Shah, J.J. — Histochemistry of paraquat treated wood in *Azadirachta indica* S. Juss. — 4: 249
- Nair, M.N.B., Shah, J.J. & Subramanyam, S.V. — Ultrastructure and histochemistry of traumatic gum ducts in the wood of *Azadirachta indica* S. Juss. — 4: 103
- Prior, J. & Alvin, K.L. — Structural changes on charring wood of *Dichrostachys* and *Salix* from Southern Africa — 4: 197
- Quirk, J.T. — Data for a computer-assisted wood identification system. I. Commercial legumes of tropical Asia and Australia — 4: 118
- Quirk, J.T. & Miller, R.B. — Nonvestured pits in *Koompassia Maingay* (Leguminosae) — 4: 191
- Roland, J.C. & Mosiniak, M. — On the twisting pattern, texture and layering of the secondary cell walls of lime wood. Proposal of an unifying model — 4: 15
- Singh, A.P. — On the occurrence of anomalous tubular structures in the vestured pits of petiolar xylem in *Eucalyptus delegatensis* — 4: 239
- Teixeira, L.L. — Some unusual features in the wood of *Sloanea lasiocoma* K. Schum. (Elaeocarpaceae) and *Casearia obliqua* Spreng. (Flacourtiaceae) — 4: 213
- Thompson, T. & Jagels, R. — Intervascular pit plugs in the transition zone between sapwood and wetwood of *Ulmus americana* L. — 4: 27
- Tsoumis, G. — SEM observations on irradiated old wood — 4: 41
- Wheeler, E.A. — Intervascular pit membranes in *Ulmus* and *Celtis* native to the United States — 4: 79
- Wilkins, A.P. & Bamber, R.K. — A comparison between Ladell's wood section method and the macerated wood method for tracheid length determination — 4: 245
- Yamamoto, F., Nakayama, T. & Suzuki, T. — Vascular differentiation in callus of *Cryptomeria japonica* D. Don in vitro — 4: 32

#### **IAWA Bulletin new series — Volume 5 (1984)**

- Akachuku, A.E. — The effects of some internal and external factors on growth rate of *Lovoa trichilioides* deduced from its wood anatomy — 5: 75
- Baas, P. — Acid rain, wood structure and wood quality - A call for cooperation — 5: 316
- Baas, P., Lee Chenglee, Zhang Xinying, Cui Keming & Deng Yuefen — Some effects of dwarf growth on wood structure — 5: 45
- Baas, P. & Ter Welle, B.J.H. — IAWA promotion — 5: 44
- Bauch, J. — Development and characteristics of discoloured wood. Introduction — 5: 91
- Bauch, J. — Discolouration in the wood of living and cut trees — 5: 92
- Bhat, K.V. & Bhat, K.M. — Wavy grain in *Grewia tiliifolia* Vahl — 5: 249
- Biggs, A.R. — Intracellular suberin: occurrence and detection in tree bark — 5: 243
- Braun, H.J. — The significance of the accessory tissues of the hydrosystem for osmotic water shifting as the second principle of water ascent, with some thoughts concerning the evolution of trees — 5: 275
- Dayal, R., Rao, R. Vijendra & Sharma, B. — Perforated ray cells in woods of Indian Myrsinaceae and Loganiaceae — 5: 225
- Dickison, W.C. — On the occurrence of silica grains in woods of *Hibbertia* (Dilleniaceae) — 5: 341
- Dodd, R.S. — Radial and tangential diameter variation in wood cells within trees of *Acer pseudoplatanus* — 5: 253
- Dujesiefken, D., Liese, W. & Bauch, J. — Discolouration in the heartwood of oak-trees — 5: 128

- El Mahjoub, M., Le Picard, D. & Moreau, M. — Origin of tyloses in melon (*Cucumis melo* L.) in response to a vascular fusarium — 5: 307
- Esau, K. & Cheadle, V.I. — Anatomy of the secondary phloem in Winteraceae — 5: 13
- Fukazawa, K. — Juvenile wood of hardwoods judged by density variation — 5: 65
- Gómez-Vázquez, B.G. & Engleman, E.M. — Bark anatomy of *Bursera longipes* (Rose) Standley and *Bursera copallifera* (Sessé & Moc.) Bullock — 5: 335
- Koek-Noorman, J., Topper, S.M.C. & Ter Welle, B.J.H. — The systematic wood anatomy of the Moraceae (Urticales). I. Tribe Castilleae — 5: 183
- Koek-Noorman, J., Topper, S.M.C. & Ter Welle, B.J.H. — The systematic wood anatomy of the Moraceae (Urticales). II. Tribe Dorstenieae — 5: 317
- Koek-Noorman, J., Topper, S.M.C. & Ter Welle, B.J.H. — The systematic wood anatomy of the Moraceae (Urticales). III. Tribe Ficeae — 5: 330
- Kuroda, H. & Shimaji, K. — Wound effects on xylem cell differentiation in a conifer — 5: 295
- Liphschitz, N., Lev-Yadun, S., Rosen, E. & Waisel, Y. — The annual rhythm of activity of the lateral meristems (cambium and phellogen) in *Pinus halepensis* Mill. and *Pinus pinea* L. — 5: 263
- Muhammad, A.F. — Perforation plate structure in *Comptonia peregrina* (Myricaceae) — 5: 217
- Muhammad, A.F. & Micko, M.M. — Accumulation of calcium crystals in the decayed wood of Aspen attacked by *Fomes igniarius* — 5: 237
- Ohtani, J., Meylan, B.A. & Butterfield, B.G. — A note on vestures on helical thickenings — 5: 9
- Parameswaran, N. & Richter, H.-G. — The ultrastructure of crystalliferous cells in some Lecythidaceae with a discussion of their terminology — 5: 229
- Passialis, C. & Tsoumis, G. — Characteristics of discoloured and wetwood in fir — 5: 111
- Patel, J.D. & Bhat, K.V. — Induction of discoloured wood in *Samanea saman* — 5: 152
- Patel, J.D., Menon, A.R.S. & Reghu, C.P. — Growth eccentricity in the branchwood of *Kigelia pinnata* (Jacq.) DC. — 5: 81
- Phelps, J.E. & McGinnes Jr, E.A. — Pruning of black walnut - subsequent discolouration and how to minimise it — 5: 110
- Rademacher, P., Bauch, J. & Shigo, A.L. — Characteristics of xylem formed after wounding in *Acer*, *Betula*, and *Fagus* — 5: 141
- Rao, R. Vijendra, Sharma, B. & Dayal, R. — Occurrence of perforated ray cells in Santalaceae — 5: 313
- Schink, B. & Ward, J.C. — Microaerobic and anaerobic bacterial activities involved in formation of wetwood and discoloured wood — 5: 105
- Schmid, R. & Baas, P. — The occurrence of scalariform perforation plates and helical vessel wall thickenings in wood of Myrtaceae — 5: 197
- Shigo, A.L. — Trees and discoloured wood — 5: 99
- Shortle, W.C. — Biochemical mechanisms of discolouration, decay, and compartmentalisation of decay in trees — 5: 100
- Todorow, M. — *Pinus pinaster* as a raw material for the paper industry — 5: 85
- Torelli, N. — The ecology of discoloured wood as illustrated by beech (*Fagus sylvatica* L.) — 5: 121
- Von Aufsess, H. — Some examples of wood discolourations related to mechanisms for potential protection of living trees against fungal attack — 5: 133
- Wiese, G. & Böttcher, P. — Investigations on how to prevent or reduce discolouration in beech and oak — 5: 139

#### **IAWA Bulletin new series — Volume 6 (1985)**

- Baas, P. — A new multilingual glossary of terms used in wood anatomy? — 6: 83
- Baas, P. — Current research on environmental pollution and wood structure — 6: 173, 272
- Baas, P. & Carlquist, S. — A comparison of the ecological wood anatomy of the floras of southern California and Israel — 6: 349
- Baas, P. & Miller, R.B. — Functional and ecological wood anatomy - Some introductory comments — 6: 281
- Barajas-Morales, J. — Wood structural differences between trees of two tropical forests in Mexico — 6: 355
- Bisen, S.S. & Babul Sharma — An unusual vessel perforation plate in *Cordia myxa* L. (Boraginaceae) — 6: 163
- Bonsen, K.J.M., Scheffer, R.J. & Elgersma, D.M. — Barrier zone formation as a resistance mechanism of elms to Dutch elm disease — 6: 71
- Bosman, M.T.M. — Some effects of decay and weathering on the anatomical structure of the stem of *Phragmites australis* Trin. ex Steud. — 6: 165
- Boyd, J.D. — The key factor in growth stress generation in trees. Lignification or crystallisation? — 6: 139
- Carlquist, S. & Hoekman, D.A. — Ecological wood anatomy of the woody southern Californian flora — 6: 319
- Castro, M.A. — Structure of the vessel-parenchyma pit membrane in some species of Lauraceae — 6: 35
- Chan, Lek-Lim — The anatomy of the bark of *Libocedrus* in New Zealand — 6: 23

- Chauhan, L. & Dayal, R. — Wood anatomy of Indian *Albizias* — 6: 213  
 Dickison, W.C. & Phend, K.D. — Wood anatomy of the Styracaceae: evolutionary and ecological consideration — 6:  
     3  
 Ellmore, G.S. & Ewers, F.W. — Hydraulic conductivity in trunk of elm, *Ulmus americana* — 6: 303  
 Essiamah, S.K. & Eschrich, W. — Changes of starch content in the storage tissues of deciduous trees during winter  
     and spring — 6: 97  
 Ewers, F.W. — Xylem structure and water conduction in conifer trees, dicot trees, and lianas — 6: 309  
 Gasson, P. — Automatic measurement of vessel lumen area and diameter with particular reference to pedunculate oak  
     and common beech — 6: 219  
 Gibson, A.C., Calkin, H.W. & Nobel, P.S. — Hydraulic conductance and xylem structure in tracheid-bearing plants  
     — 6: 293  
 Harche, M. & Gatesson, A.M. — Cell wall architecture in Alfa (*Stipa tenacissima* L.) fibres — 6: 61  
 Kuroda, K. & Shimaji, K. — Wound effects on cytodifferentiation in hardwood xylem — 6: 107  
 Liphshitz, N., Lev-Yadun, S. & Waisel, Y. — The annual rhythm of activity of the lateral meristems (cambial and  
     phellogen) in *Pistacia lentiscus* L. — 6: 239  
 Ohtani, J. — SEM observations on trabeculae in *Abies sachalinensis* — 6: 43  
 Parameswaran, N., Knigge, H. & Liese, W. — Electron microscopic demonstration of a suberised layer in the tylosis  
     wall of beech and oak — 6: 269  
 Quirk, J.T. & Miller, R.B. — Vestured pits in the tribe Cassieae Brønn (Leguminosae) — 6: 200  
 Richter, H.G. — Wood and bark anatomy of Lauraceae II. *Licaria* Aublet — 6: 187  
 Rudall, P.J. — Perforated ray cells in *Hyptis hagei* — A new record for Labiateae — 6: 161  
 Rury, P.M. — Systematic and ecological wood anatomy of the Erythroxylaceae — 6: 365  
 Sharma, B.L., Vijendra Rao, R., Bisen, S.S. & Dayal, R. — Modified scalariform and reticulate perforation plates in  
     species of *Euodia* (Rutaceae) — 6: 39  
 Sperry, J.S. — Xylem embolism in the palm *Rhapis excelsa* — 6: 283  
 Thorsch, J. & Esau, K. — An ultrastructural study of the phloem of *Drimys* (Winteraceae) — 6: 255  
 Villalba, R. — Xylem structure and cambial activity in *Prosopis flexuosa* DC. — 6: 119  
 Wheeler, E.A. & Pearson, R.G. — A critical review of the IAWA Standard List of characters formatted for the IDENT  
     programs — 6: 151  
 Yamanaka, K. — Abnormal tissue in swollen stemwood of *Chaemacyparis obtusa* Sieb. & Zucc. — 6: 53  
 Yoshizawa, N., Itoh, T. & Shimaji, K. — Helical thickenings in normal and compression wood of some softwoods  
     — 6: 131  
 Yoshizawa, N., Matsumoto, S. & Idei, T. — Morphological features of tracheid tips associated with compression wood  
     formation in *Larix leptolepis* Gord. — 6: 245

**IAWA Bulletin** new series — Volume 7 (1986)

- Baas, P. — Current research on environmental pollution and wood structure 3 - Addenda — 7: 52  
 Baas, P. — Terminology of imperforate tracheary elements - In defence of libriform fibres with minutely bordered pits  
     — 7: 82  
 Baas, P., Schmid, R. & Van Heuven, B.J. — Wood anatomy of *Pinus longaeva* (bristlecone pine) and the sustained  
     length-on-age increase of its tracheids — 7: 221  
 Baas, P. & Zhang Xinying — Wood anatomy of trees and shrubs from China. I. Oleaceae — 7: 195  
 Bauch, J. — Characteristics and response of wood in declining trees from forests affected by pollution — 7: 269  
 Carlquist, S. — Terminology of imperforate tracheary elements — 7: 75  
 Carlquist, S. — Terminology of imperforate tracheary elements: A Reply — 7: 168  
 Castro, M.A. — Vessel-parenchyma pit membranes in *Cucurbita maxima* Duch. — 7: 251  
 Chan, Lek-Lim — The anatomy of the bark of *Agathis* in New Zealand — 7: 229  
 Chavan, R.R. — Analysis of quantitative sieve plate parameters in some members of Asteraceae — 7: 53  
 De Kort, I. — Wood structure and growth ring width of vital and non-vital Douglas fir (*Pseudotsuga menziesii*) from a  
     single stand in the Netherlands — 7: 309  
 Den Outer, R.W. — Storied structure of the secondary phloem — 7: 47  
 Essiamah, S. & Eschrich, W. — Water uptake in deciduous trees during winter and the role of conducting tissues in  
     spring reactivation — 7: 31  
 Evertsen, J.A., MacSiurtain, M.P. & Gardiner, J.J. — The effect of industrial emission on wood quality in Norway  
     spruce (*Picea abies*) — 7: 399  
 Fengel, D. & Schulz, H. — Chemical studies on the wood of declining conifers — 7: 371  
 Fink, S. — Microscopical investigations on wood formation and function in diseased trees — 7: 351  
 Frühwald, A. — Technological properties of wood from trees in polluted regions — 7: 389

- Gregory, R.A., Williams Jr, M.W., Wong, B.L. & Hawley, G.J. — Proposed scenario for dieback and decline of *Acer saccharum* in Northeastern U.S.A. and Southeastern Canada — 7: 357
- Grosser, D. — On the occurrence of trabeculae with special consideration of diseased trees — 7: 319
- Jagels, R. — Acid fog, ozone and low elevation spruce decline — 7: 299
- Krahmer, R.L., Morrell, J.J. & Choi, A. — Double-staining to improve visualisation of wood decay hyphae in wood sections — 7: 165
- Lev-Yadun, S. & Liphshitz, N. — Growth ring terminology - Some proposals — 7: 72
- Liphshitz, N. & Lev-Yadun, S. — Cambial activity of evergreen and seasonal dimorphics around the Mediterranean — 7: 145
- Miller, R.B. — A response to Wheeler and Pearson's critical review of the IAWA standard list of characters — 7: 255
- Ohtani, J. — Vestures in axial parenchyma cells — 7: 39
- Pozgaj, A. & Kurjatko, S. — Wood properties of spruce from forests affected by pollution in Czechoslovakia — 7: 405
- Prior, J. & Alvin, K.L. — Structural changes on charring wood of Dichrostachys and Salix from southern Africa: the effect of moisture content — 7: 243
- Roig, Junent, F.A. — The wood of *Adesmia horrida* and its modifications by climatic conditions — 7: 129
- Satiat-Jeunemaitre, B. — Cell wall morphogenesis and structure in tropical tension wood — 7: 155
- Schweingruber, F.H. — Abrupt growth changes in conifers — 7: 277
- Shortle, W.C. & Bauch, J. — Wood characteristics of *Abies balsamea* in the New England states compared to *Abies alba* from sites in Europe with decline problems — 7: 375
- Starbuck, C.J. & Phelps, J.E. — Induction of compression wood in rooted cuttings of *Pseudotsuga menziesii* (Mirb.) Franco by indole-3-acetic acid — 7: 13
- Ter Welle, B.J.H., Koek-Noorman, J. & Topper, S.M.C. — The systematic wood anatomy of the Moraceae (Urticales) IV. Genera of the tribe Moreae with urticaceous stamens — 7: 91
- Ter Welle, B.J.H., Koek-Noorman, J. & Topper, S.M.C. — The systematic wood anatomy of the Moraceae (Urticales) V. Genera of the tribe Moreae with urticaceous stamens — 7: 175
- Tippett, J.T. — Formation and fate of Kino veins in *Eucalyptus* L'Hérit. — 7: 137
- Torelli, N., Čufar, K. & Robič, D. — Some wood anatomical, physiological and silvicultural aspects of silver fir dieback in Slovenia (NW Yugoslavia) — 7: 343
- Trockenbrodt, M. & Parameswaran, N. — A contribution to the taxonomy of the genus *Inga* Scop. (Mimosaceae) based on the anatomy of the secondary phloem — 7: 62
- Visser, H. — Analysis of tree ring data using the Kalman filter technique — 7: 289
- Von Aufsess, H. & Schulz, H. — Investigations on the storage behaviour of roundwood from healthy and diseased beeches — 7: 411
- Wahlman, B., Braun, E. & Lewark, S. — Radial increment in different tree heights in beech stands affected by air pollution — 7: 285
- Wheeler, E.A. — Vessels per square millimetre or vessel groups per square millimetre? — 7: 73
- Wilkes, J. — Anatomy of zones of ring shape in *Eucalyptus maculata* — 7: 3
- Yang, K.C. — A proposal for a new indicator for expressing the metabolic activity of living sapwood ray parenchyma cells — 7: 17
- Yoshizawa, N., Tanaka, Y. & Idei, T. — Development of vascular cambium and compression wood formation in the shoot of young spruce (*Picea jezoensis* var. *hondoensis*) — 7: 21

#### **IAWA Bulletin** new series — Volume 8 (1987)

- Ajmal, S. & Iqbal, M. — Annual rhythm of cambial activity in *Streblus asper* — 8: 275
- Akachuku, A.E. — A study of lumen diameter variation along the longitudinal axis of wood vessels in *Quercus rubra* using cinematography — 8: 41
- Baas, P. & Schweingruber, F.H. — Ecological trends in the wood anatomy of trees, shrubs and climbers from Europe — 8: 245
- Babu, A.M., Nair, G.M. & Shah, J.J. — Traumatic gum-resin cavities in the stem of *Ailanthus excelsa* Roxb. — 8: 167
- Bamber, R.K. — The origin of growth stresses: a rebuttal — 8: 80
- Barajas-Morales, J. — Wood species gravity in species from two tropical forests in Mexico — 8: 143
- Barnett, J.R. — The development of fibre-tracheid pit membranes in *Pyrus communis* L. — 8: 134
- Datta, S.K. & Kumar, A. — Histochemical studies of the transition from sapwood to heartwood in *Tectona grandis* — 8: 363
- Donaldson, L.A., Hollinger, D., Middleton, T.M. & Souter, E.D. — Effect of CO<sub>2</sub> enrichment on wood structure in *Pinus radiata* D. Don — 8: 285
- Dute, R.R. & Rushing, A.E. — Pit pairs with tori in the wood of *Osmanthus americanus* (Oleaceae) — 8: 237

- Gasson, P. — Some implications of anatomical variations in the wood of pedunculate oak (*Quercus robur* L.) including comparison with common beech (*Fagus sylvatica* L.) — 8: 149
- Gasson, P. — Interpretation and choice of vessel characters in the IAWA Standard List — 8: 233
- Kuroda, K. — Hardwood identification using a microcomputer and IAWA codes — 8: 69
- LaPasha, C.A. & Wheeler, E.A. — A microcomputer based system for computer-aided wood identification — 8: 347
- Liphshitz, N. & Mendel, Z. — Histological studies of *Pinus halepensis* stem xylem affected by *Matsucoccus josephi* (Homoptera: Margarodidae) — 8: 369
- Lisboa, P.L.B., Cesar A. da Silva, J., Loureiro, A.A. & Dos Santos, G.M. — Morphology of the vessel elements in the secondary xylem of the Myristicaceae from Brazilian Amazonia — 8: 202
- Martijena, N. — Wood anatomy of *Lithraea ternifolia* (Gill.) Barkley & Rom. (Anacardiaceae) — 8: 47
- Middleton, T.M. — Aggregate rays in New Zealand *Nothofagus* Blume (Fagaceae) stem wood and their influence on vessel distribution — 8: 53
- Millay, M.A., Taylor, T.N. & Taylor, E.L. — Phi thickenings in fossil seed plants from Antarctica — 8: 191
- Miller, R.B., Pearson, R.G. & Wheeler, E.A. — Creation of a large database with IAWA Standard List characters — 8: 219
- Noshiro, S. & Suzuki, M. — Fossil root- and stemwood of *Chionanthus retusus* Lindl. et Paxt. from the Late Pleistocene of Akashi, Japan — 8: 125
- Ohtani, J. — Vestures in septate wood fibres — 8: 59
- Ohtani, J., Fukazawa, K. & Fukumorita, T. — SEM observations on indented rings — 8: 113
- Pereira, H., Rosa, M.E. & Fortes, M.A. — The cellular structure of cork from *Quercus suber* L. — 8: 213
- Phelps, J.E., Isebrands, J.G. & Teclaw, R.M. — Raw material quality of short-rotation, intensively cultured *Populus* clones. II. Wood and bark from first-rotation stems and stems grown from coppice — 8: 182
- Rao, R. Vijendra, Bisen, S.S., Babulal Sharma & Dayal, R. — SEM observations of perforation plates in *Sonneratia* Linn. (Sonneratiaceae) — 8: 331
- Rao, R. Vijendra, Babulal Sharma, Chauhan, L. & Dayal, R. — Reinvestigations of the wood anatomy of *Duabanga* and *Sonneratia* with particular reference to their systematic position — 8: 337
- Richter, H.G. & Schmitt, U. — Unusual crystal formations in the secondary xylem of *Cosmocalyx spectabilis* Standl. (Rubiaceae) — 8: 323
- Sudo, S. & Fuji, T. — Latex tubes in the rays of *Pimelodendron amboinicum* Hassk. (Euphorbiaceae) — 8: 109
- Van der Walt, J.J.A., Werker, E. & Fahn, A. — Wood anatomy of *Pelargonium* (Geraniaceae) — 8: 95
- Venugopal, N. & Krishnamurthy, K.V. — Seasonal production of secondary xylem in the twigs of certain tropical trees — 8: 31
- Wheeler, E.A., Pearson, R.G. & LaPasha, C.A. — Objectives of computerised databases for wood — 8: 355
- Wilcox, W.W. — Fixation improves image of fungal hyphae in SEM — 8: 78
- Wilkes, J. — Effect of moisture content on the morphology of longitudinal fracture in *Eucalyptus maculata* — 8: 175
- Wilkes, J. & Wilkins, A.P. — Anatomy of collapse in *Eucalyptus* species — 8: 291
- Yamamoto, F., Angeles, G. & Kozlowski, T.T. — Effect of ethrel on stem anatomy of *Ulmus americana* seedlings — 8: 3
- Yamamoto, F. & Kozlowski, T.T. — Effect of ethrel on growth and stem anatomy of *Pinus halepensis* seedlings — 8: 11
- Yamamoto, F. & Kozlowski, T.T. — Effects of flooding of soil on growth, stem anatomy, and ethylene production of *Thuja orientalis* seedlings — 8: 21

#### **IAWA Bulletin new series – Volume 9 (1988)**

- Alvin, K.L. & Murphy, R.J. — Variation in fibre and parenchyma wall thickness in culms of the bamboo *Sinobambusa tootsik* — 9: 353
- Avella, Th., Dechamps, R. & Bastin, M. — Fluorescence study of 10,610 woody species from the Tervuren (Tw) collection, Belgium — 9: 346
- Baas, P., Esser, P.M., Van der Westen, M.E.T. & Zandee, M. — Wood anatomy of the Oleaceae — 9: 103
- Bucur, V. — Wood structural anisotropy estimated by acoustic invariants — 9: 67
- Carlquist, S. — Wood anatomy and relationships of Duckeodendraceae and Goetzeaceae — 9: 3
- Carlquist, S. & Zona, S. — Wood anatomy of Papaveraceae, with comments on vessel restriction patterns — 9: 253
- Castro, M.A. — Vestures and thickenings of the vessel wall in some species of *Prosopis* (Leguminosae) — 9: 335
- Dickison, W.C. — Xylem anatomy of *Diegodendron humbertii* — 9: 332
- Dudzik, K.R. — Macro-microscopic anatomy: Obtaining a composite view of barrier zone formation in *Acer saccharum* — 9: 183
- Dute, R.R. & Rushing, A.E. — Notes on torus development in the wood of *Osmanthus americanus* (L.) Benth. & Hook. ex Gray (Oleaceae) — 9: 41

- Dyer, S.T. — Wood fluorescence of indigenous South African trees — 9: 75
- Lee, P.W. & Eom, Y.G. — Anatomical comparison between compression wood and opposite wood in a branch of Korean pine (*Pinus koraiensis*) — 9: 275
- Li Zhengli (Lee Chenglee) & Keming Cui — Differentiation of secondary xylem after girdling — 9: 375
- Middleton, T.M. — Intervessel pits in the stem wood of New Zealand *Nothofagus* (Fagaceae) — 9: 327
- Ogata, K. — Wood anatomy of the Caprifoliaceae of Japan — 9: 299
- Pereira, H. — Structure and chemical composition of cork from *Calotropis procera* (Ait.) R.Br. — 9: 53
- Pereira, H. & Velez Marques, A. — The effect of chemical treatments on the cellular structure of cork — 9: 337
- Ranjani, K. & Krishnamurthy, K.V. — Nature of vestures in the vested pits of some Caesalpiniaceae — 9: 31
- Sauter, J.J. & Wellenkamp, S. — Protein storing vacuoles in ray cells of willow wood (*Salix caprea* L.) — 9: 59
- Stern, W.L. — Index Xylariorum. 3. Institutional Wood Collections of the World — 9: 203
- Subrahmanyam, S.V. & Shah, J.J. — The metabolic status of traumatic gum ducts in *Moringa oleifera* Lam — 9: 187
- Suzuki, M. & Ohba, H. — Wood structural diversity among Himalayan *Rhododendron* — 9: 317
- Telewski, F.W. — Intra-annual spiral compression wood: A record of low-frequency gravitropic circumnutational movement in trees — 9: 269
- Thorsch, J. & Esau, K. — Ultrastructural aspects of primary phloem. Sieve elements in *Poinsettia (Euphorbia pulcherrima)*, Euphorbiaceae — 9: 363
- Van Bel, A.J.E. & Van der Schoot, C. — Primary function of the protective layer in contact cells: Buffer against oscillations in hydrostatic pressure in the vessels? — 9: 285
- Wilkes, J. — Variations in wood anatomy within species of *Eucalyptus* — 9: 13
- Zhang Xinying, Deng Liang & Baas, P. — The ecological wood anatomy of the lilacs (*Syringa oblata* var. *giraldii*) on Mount Taibei in Northwestern China — 9: 24

#### **IAWA Bulletin** new series – Volume 10 (1989)

- Bhat, K.M., Bhat, K.V. & Dhamodaran, T.K. — Fibre length variation in stem and branches of eleven tropical hardwoods — 10: 63
- Boninsegna, J.A., Villalba, R., Amarilla L. & Ocampo, J. — Studies on tree rings, growth rates and age-size relationships of tropical tree species in Misiones, Argentina — 10: 161
- Cui Keming, Lu Pengzhe, Liu Qinghua & Li Zhengli — Regeneration of vascular tissues in *Broussonetia papyrifera* stems after removal of the xylem — 10: 193
- Denne, M.P. — Definition of latewood according to Mork (1928) — 10: 59
- Détienne, P. — Appearance and periodicity of growth rings in some tropical woods — 10: 123
- Eckstein, D. & Krause, C. — Dendroecological studies on spruce trees to monitor environmental changes around Hamburg — 10: 175
- IAWA Committee — IAWA List of microscopic features for hardwood identification — 10: 219
- Jacoby, G.C. — Overview of tree-ring analysis in tropical regions — 10: 99
- Lev-Yadun, S. & Liphschitz, N. — Sites of first phellogen initiation in conifers — 10: 43
- Lin Jinxing — Distribution, size and effective aperture area of the intertracheid pits in the radial wall of *Pinus radiata* tracheids — 10: 53
- Lin, L.C., Morrell, J.J. & Krahmer, R.L. — Fungal colonisation of Douglas fir and Ponderosa pine by *Poria carbonica*, *Coriolus versicolor*, and *Chaetomium globosum*; visualisation with fluorescent-coupled wheat-germ agglutinin — 10: 71
- Madar, Z. & Liphschits, N. — Historical studies of *Cupressus sempervirens* L. affected by *Diplodia pinea* f. sp. *cupressi* and *Seiridium cardinale* — 10: 183
- Miller, R.B. & Cahow, E. — Wood identification of commercially important North American species of birch (*Betula*) — 10: 364
- Ohtani, J., Wu Jing, Fukazawa, K. & Xian Shao Qun — Multiple perforation plates in *Gmelina arborea* Roxb. (Verbenaceae) — 10: 35
- Pereira, H. — Trabeculae in the cork cells of *Quercus suber* L. — 10: 209
- Rudall, P. — Laticifers in vascular cambium and wood of *Croton* spp. (Euphorbiaceae) — 10: 379
- Sauter, J.J. & Van Cleve, B. — Micromorphometric determination of organelles and of storage material in wood ray cells – A useful method for detecting differentiation within a tissue — 10: 395
- Seits, R.A. & Kanninen, M. — Tree ring analysis of *Araucaria angustifolia* in southern Brazil: Preliminary results — 10: 170
- Shiokura, T. — A method to measure radial increment in tropical trees — 10: 147
- Singh, A.P. — Certain aspects of bacterial degradation of *Pinus radiata* wood — 10: 405
- Vetter, R.E. & Botosso, P.C. — Remarks on age and growth rate determination of Amazonian trees — 10: 133

- Vidal Gomes, A., Lopes Teixeira, L., Gomes Schaitza, E. & Hofmeister, R.M. — Perforation plates in vessels of *Citharexylum myrianthum* Cham. (Verbenaceae) — 10: 27
- Vijendra Rao, R., Babulal Sharma & Dayal, R. — Anatomy of aerial rootwood of *Sonneratia caseolaris* (L.) Engler (Sonneratioideae) — 10: 374
- Villalba, R. & Boninsegna, J.A. — Dendrochronological studies on *Prosopis flexuosa* DC. — 10: 155
- Visser, H., Noppert, F., Van Wakeren, H. & Vaessen, J. — Xylem sap velocity in relation to weather and air pollution — 10: 427
- Vysotskaya, L.G. & Vaganov, E.A. — Components of the variability of radial cell size in tree rings of conifers — 10: 417
- Wheeler, E.A., LaPasha, C.A. & Miller, R.B. — Wood anatomy of elm (*Ulmus*) and hackberry (*Celtis*) species native to the United States — 10: 5
- Wilkins, A.P. — Relationship between broken fibres in macerated eucalypt wood and the abundance of cell wall deformations — 10: 77
- Wilkins, A.P. & Papassotiriou, S. — Wood anatomical variation of *Acacia melanoxylon* in relation to latitude — 10: 201
- Worbes, M. — Growth rings, increment and age of trees in inundation forests, savannas and a mountain forest in the Neotropics — 10: 109
- Yamanaka, K. — Formation of traumatic phloem resin canals in *Chamaecyparis obtusa* — 10: 384

#### **IAWA Bulletin** new series – Volume 11 (1990)

- Angeles, G. — Hyperhydric tissue formation in flooded *Populus tremuloides* seedlings — 11: 85
- Bonsen, K.J.M. & Kučera, L.J. — Vessel occlusions in plants: morphological, functional and evolutionary aspects — 11: 393
- Cevallos-Ferriz, S.R.S. & Stockey, R.A. — Vegetative remains of the Rosaceae from the Princeton chert (Middle Eocene) of British Columbia — 11: 261
- De Kort, I. — Tracheid length in vital and non vital Douglas fir (*Pseudotsuga menziesii*) in the Netherlands — 11: 203
- Deng Liang & Baas, P. — Wood anatomy of trees and shrubs from China II. Theaceae — 11: 337
- Donaldson, L.A. & Singh, A.P. — Ultrastructure of *Terminalia* wood from an ancient Polynesian canoe — 11: 195
- Dute, R.R. & Rushing, A.E. — Torus structure and development in the wood of *Ulmus alata* Michx., *Celtis laevigata* Willd., and *Celtis occidentalis* L. — 11: 71
- Dute, R.R., Rushing, A.E. & Perry, J.W. — Torus structure and development in species of *Daphne* — 11: 401
- Fujiwara, S. & Iwagami, S. — Tree growth and cell dimensions III. Variations of tracheid cross section dimensions across growth rings in Sugi (*Cryptomeria japonica*) — 11: 97
- Funada, R., Kubo, T. & Fushitani, M. — Early- and latewood formation in *Pinus densiflora* trees with different amounts of crown — 11: 281
- Furuno, T. — Bark structure of deciduous broad-leaved trees grown in the San'in Region, Japan — 11: 239
- Gasson, P.E. & Cutler, D.F. — Root anatomy of 17 genera growing in the British Isles — 11: 3
- LaPasha, C.A. & Wheeler, E.A. — Resin canals in *Pinus taeda*. Longitudinal canal lengths and interconnections between longitudinal and radial canals — 11: 227
- Lev-Yadun, S. & Aloni, R. — Polar patterns of periderm ontogeny, their relationship to leaves and buds, and the control of cork formation — 11: 289
- Miller, R.B. — Comparison of the 1981 Standard List and the 1989 IAWA List for Hardwood Identification — 11: 167
- Nair, M.N.B. & Mohan Ram, H.Y. — Structure of wood and cambial variant in the stem of *Dalbergia paniculata* Roxb. — 11: 379
- Ohtani, J. & Fujikawa, S. — Cryo-SEM observations on vessel lumina of a living tree: *Ulmus davidiana* var. *japonica* — 11: 183
- Pendleton, M. & Warnock, P. — Scanning electron microscope aided wood identification of a Bronze Age wooden diptych — 11: 255
- Pereira, H. & Araújo, C. — Raw-material quality of fast grown *Eucalyptus globulus* during the first year — 11: 421
- Prior, J.A.B. & Gasson, P.E. — Comparative wood anatomy of Afromontane and Bushveld species from Swaziland, Southern Africa — 11: 319
- Richter, H.G. — Wood and bark anatomy of Lauraceae III. *Aspidostemon* Rohwer & Richter — 11: 47
- Richter, H.G. & Van Wyk, A.E. — Wood and bark anatomy of Lauraceae IV. *Dahlgrenodendron* J.J.M. Van der Merwe & Van Wyk — 11: 173
- Schmitt, U. & Liese, W. — Wound reaction of the parenchyma in *Betula* — 11: 413
- Trockenbrodt, M. — Survey and discussion of the terminology used in bark anatomy — 11: 141
- Vetter, R.E., Coradin, V.R., Martino, E.C. & Camargos, J.A.A. — Wood colour – A comparison between determination methods — 11: 429

- Weiner, G. & Liese, W. — Rattans – Stem anatomy and taxonomic implications — 11: 61
- Yanchuk, A.D. & Micko, M.M. — Radial variation of wood density and fibre length in trembling aspen — 11: 211
- Yang Jiaju & Cheng Fang — A computerised system for features image display and identification of woods from China — 11: 105
- Zhang Xinying, Baas, P. & Mennega, A.M.W. — Wood anatomy of *Bhesa sinica* (Celastraceae) — 11: 57
- IAWA Bulletin** new series – Volume 12 (1991)
- Abe, H., Ohtani, J. & Fukazawa, K. — FE-SEM observations on the microfibrillar orientation in the secondary wall of tracheids — 12: 431
- Akachuku, A.E. — Wood growth determined from growth ring analysis in red pine (*Pinus resinosa*) trees forced to lean by a hurricane — 12: 263
- Alfonso, V.A. & Richter, H.G. — Wood and bark anatomy of *Buchenavia* Eichl. (Combretaceae) — 12: 123
- Aloni, R. & Peterson, C.A. — Naturally occurring periderm tubes around secondary phloem fibres in the bark of *Vitis vinifera* L. — 12: 57
- Aloni, R. & Peterson, C.A. — Seasonal changes in callose levels and fluorescein translocation in the phloem of *Vitis vinifera* L. — 12: 223
- Behnke, H.-D. — Nondispersive protein bodies in sieve elements: A survey and review of their origin, distribution and taxonomic significance — 12: 143
- Bonsen, K.J.M. & Walter, M. — Calcium-layers in xylem vessels — 12: 67
- Castro, M.A. — Ultrastructure of vestures on the vessel wall in some species of *Prosopis* (Leguminosae–Mimosoideae) — 12: 425
- Daniel, G., Nilsson, T. & Pettersson, B. — Poorly and non-lignified regions in the middle lamella cell corners of birch (*Betula verrucosa*) and other wood species — 12: 70
- De Kort, I., Loeffen, V. & Baas, P. — Ring width, density and wood anatomy of Douglas fir with different crown vitality — 12: 453
- Deng Liang & Baas, P. — The wood anatomy of the Theaceae — 12: 333
- Espinoza de Pernia, N. & Miller, R.B. — Adapting the IAWA List of Microscopic Features for Hardwood Identification to DELTA — 12: 34
- Fujiwara, S., Sameshima, K., Kuroda, K. & Takamura, N. — Anatomy and properties of Japanese hardwoods I. Variation of fibre dimensions and tissue proportions and their relation to basic density — 12: 419
- Funada, R. & Catesson, A.-M. — Partial cell wall lysis and the resumption of meristematic activity in *Fraxinus excelsior* cambium — 12: 439
- Gasson, P. & Dobbins, D.R. — Wood anatomy of the Bignoniaceae, with a comparison of trees and lianas — 12: 389
- Gourlay, I.D. & Kanowski, P.J. — Marginal parenchyma bands and crystalliferous chains as indicators of age in African *Acacia* species — 12: 187
- Hazenberg, G. & Yang, K.C. — Sapwood/heartwood width relationships with tree age in balsam fir — 12: 95
- Helińska-Raczkowska, L. & Fabisiak, E. — Radial variation and growth rate in the length of the axial elements of sessile oak wood — 12: 257
- Hollingsworth, R.G., Blum, U. & Hain, F.P. — The effect of adelgid-altered wood on sapwood conductance of Fraser fir Christmas trees — 12: 235
- Lev-Yadun, S. — Terminology used in bark anatomy: additions and comments — 12: 207
- Lev-Yadun, S. & Aloni, R. — Wound-induced periderm tubes in the bark of *Melia azedarach*, *Ficus sycomorus* and *Platanus acerifolia* — 12: 62
- Lev-Yadun, S. & Aloni, R. — An experimental method of inducing ‘Hazel’ wood in *Pinus halepensis* (Pinaceae) — 12: 445
- Li Zhengli (Lee Chenglee) & Lin Jinxing — Wood anatomy of the stalactite-like branches of *Ginkgo* — 12: 251
- Murphy, R.J., Alvin, K.L. & Tan, Y.-F. — Development of soft rot decay in the bamboo *Sinobambusa tootsik* — 12: 85
- Ogata, K. — Wood anatomy of *Zabelia* (Caprifoliaceae): evidence for generic recognition — 12: 111
- Paraskevopoulou, A.H. — Variation of wood structure and properties of *Cupressus sempervirens* var. *horizontalis* in natural populations in Greece — 12: 195
- Sano, Y. & Fukazawa, K. — Structural differences of tyloses in *Fraxinus mandshurica* var. *japonica* and *Kalopanax pictus* — 12: 241
- Schirarend, C. — The systematic wood anatomy of the Rhamnaceae Juss. (Rhamnales). I. Tribe Zizipheae — 12: 359
- Siddiqi, T.O. — Impact of seasonal variation on the structure and activity of vascular cambium in *Ficus religiosa* — 12: 177
- Suzuki, M., Joshi, L., Fujii, T. & Noshiro, S. — The anatomy of unusual tracheids in *Tetracentron* wood — 12: 23
- Trockenbrodt, M. — Qualitative structural changes during bark development in *Quercus robur*, *Ulmus glabra*, *Populus tremula* and *Betula pendula* — 12: 5

- Wheeler, E.A. & Baas, P. — A survey of the fossil record for dicotyledonous wood and its significance for evolutionary and ecological wood anatomy — 12: 275
- Wright, J.A. & Malan, F.S. — Variation in wood and tracheid properties of *Pinus maximinoi*, *P. pseudostrobus* and *P. patula* — 12: 467
- Wu Ji-lin & Hao Bing-zhong — Vacuole proteins in secondary phloem parenchyma cells of three Meliaceae species — 12: 51

**IAWA Bulletin** new series – Volume 13 (1992)

- Abe, H., Ohtani, J. & Fukazawa, K. — Microfibrillar orientation of the innermost surface of conifer tracheid walls — 13: 411
- Angeles, G. — The periderm of flooded and non-flooded *Ludwigia octovalvis* (Onagraceae) — 13: 195
- Bhatt, J.R. & Mohan Ram, H.Y. — Development and ultrastructure of primary secretory ducts in the stem of *Semecarpus anacardium* (Anacardiaceae) — 13: 173
- Blanchette, R.A. & Simpson, E. — Soft rot and wood pseudomorphs in an ancient coffin (700 BC) from Tumulus MM at Gordion, Turkey — 13: 201
- Carlquist, S. — Wood anatomy and stem of *Chloranthus*; summary of wood anatomy of Chloranthaceae, with comments on relationships, vessellessness, and the origin of monocotyledons — 13: 3
- Den Outer, R.W. & Van Veenendaal, W.L.H. — Wood anatomy of the *Baphia* group (Leguminosae) — 13: 135
- Deshpande, B.P. & Vishwakarma, A.K. — Calcium oxalate crystals in the fusiform cells of the cambium of *Gmelina arborea* — 13: 297
- Donaldson, L.A. — Lignin distribution during latewood formation in *Pinus radiata* D. Don — 13: 381
- Dute, R.R., Rushing, A.E. & Freeman, J.D. — Survey of intervessel pit membrane structure in *Daphne* species — 13: 113
- Fujiwara, S. — Anatomy and properties of Japanese hardwoods II. Variation of dimensions of ray cells and their relation to basic density — 13: 397
- Murphy, R.J. & Alvin, K.L. — Variation in fibre wall structure in bamboo — 13: 403
- Ohtani, J., Saitoh, Y., Wu, J., Fukazawa, K. & Shao qun Xiao — Perforation plates in *Knema furfuracea* (Myristicaceae) — 13: 301
- Pereira, H., Graça, J. & Baptista, C. — The effect of growth rate on the structure and compressive properties of cork — 13: 389
- Rao, K. Ramesh & Dayal, R. — The secondary xylem of *Aquilaria agallocha* (Thymelaeaceae) and the formation of ‘agar’ — 13: 163
- Rao, R. Vijendra, Dayal, R., Charma, B.L. & Luxmi Chauhan — Reinvestigation of the wood structure of *Thottea siliquosa* (Aristolochiaceae) — 13: 17
- Roig, F.A. — Comparative wood anatomy of southern South American Cupressaceae — 13: 151
- Schweingruber, F.H. — Annual growth rings and growth zones in woody plants in southern Australia — 13: 359
- Singh, A.P., Hedley, M.E., Page, D.R., Han, C.S. & Atisongkroh, K. — Microbial degradation of CCA-treated cooling tower timber — 13: 215
- Takabe, K., Miyauchi, S., Tsunoda, R. & Fukazawa, K. — Distribution of guaiacyl and syringyl lignins in Japanese beech (*Fagus crenata*): variation within an annual ring — 13: 105
- Takabe, K., Miyauchi, T. & Fukazawa, K. — Cell wall formation of compression wood in Todo fir (*Abies sacharinensis*). I. Deposition of polysaccharides — 13: 283
- Vian, B., Roland, J.-C., Reis, D. & Mosiniak, M. — Distribution and possible morphogenetic role of the xylans within the secondary vessel wall of linden wood — 13: 269
- Yamamoto, F. — Effects of depth of flooding on growth and anatomy of stems and knee roots of *Taxodium distichum* — 13: 93
- Yoshizawa, N., Satoh, I., Yokota, S. & Idei, T. — Response of differentiating tracheids to stem inclination in young trees of *Taxus cuspidata* — 13: 187
- Zhang, S.-Y. & Baas, P. — Wood anatomy of trees and shrubs from China. III. Rosaceae — 13: 21
- Zhang, S.-Y., Baas, P. & Zandee, M. — Wood structure of the Rosaceae in relation to ecology, habit and phenology — 13: 307
- Zhong, Y., Baas, P. & Wheeler, E.A. — Wood anatomy of trees and shrubs from China. IV. Ulmaceae — 13: 419

**IAWA Journal** – Volume 14 (1993)

- Archer, R.H. & Van Wyk, A.E. — Bark structure and intergeneric relationships of some southern African Cassinoideae (Celastraceae) — 14: 35
- Archer, R.H. & Van Wyk, A.E. — Wood structure and generic status of some southern African Cassinoideae (Celastraceae) — 14: 373

- Babos, K. — Tyloses formation and the state of health of *Quercus petraea* trees in Hungary — 14: 239  
 Barnett, J.R., Cooper, P. & Bonner, L.J. — The protective layer as an extension of the apoplast — 14: 163  
 Bhat, K.M., Nasser, K.M. Mohamed & Thulasidas, P.K. — Anatomy and identification of South Indian rattans (*Calamus* species) — 14: 63  
 Butterfield, R.P., Crook, R.P., Adams, R. & Morris, R. — Radial variation in wood specific gravity, fibre length and vessel area for two Central American hardwoods: *Hyeronima alchorneoides* and *Vochysia guatemalensis*: natural and plantation-grown trees — 14: 153  
 Carlquist, S. — Wood and bark anatomy of Aristolochiaceae; systematic and habitat correlations — 14: 341  
 Chen, B.L., Baas, P., Wheeler, E.A. & Wu, S.M. — Wood anatomy of trees and shrubs from China. VI. Magnoliaceae — 14: 391  
 Chih Ming Chiu & Lee, Chen Hui — Wood-bark grain spirality correlations in *Calocedrus formosana* — 14: 29  
 De Kort, I. — Relationships between sapwood amount, latewood percentage, moisture content and crown vitality of Douglas fir, *Pseudotsuga menziesii* — 14: 413  
 Dong Zhongmin & Baas, P. — Wood anatomy of trees and shrubs from China. V. Anacardiaceae — 14: 87  
 Ellis, S. & Avramidis, S. — Brown stain in Pacific coast hemlock — 14: 23  
 Fujii, T. — Application of a resin casting method to wood anatomy of some Japanese Fagaceae species — 14: 273  
 Hayden, W.J., Simmons, M.P. & Swanson, L.J. — Wood anatomy of *Amanoa* (Euphorbiaceae) — 14: 205  
 Illic, J. — Computer aided wood identification using CSIROID — 14: 333  
 Kubo, T. & Koyama, M. — Maturation rate of tracheid lengthening in slow-grown young sugi (*Cryptomeria japonica*) trees — 14: 267  
 Liu Donghua & Gao Xinzeng — Comparative anatomy of the secondary phloem of ten species of Rosaceae — 14: 289  
 Malan, J.W. & Van Wyk, A.E. — Bark structure and preferential bark utilisation by the African elephant — 14: 173  
 Manchester, S.R. & Wheeler, E.A. — Extinct juglandaceous wood from the Eocene of Oregon and its implications for xylem evolution in the Juglandaceae — 14: 103  
 Miller, H. & Barnett, J.R. — The formation of callus at the graft interface in Sitka spruce — 14: 13  
 Nair, M.N.B. — Structure of stem and cambial variant in *Spatholobus roxburghii* (Leguminosae) — 14: 191  
 Norverto, C.A. — Perforated ray cells and primary wall remnants in vessel element perforations of *Symplocos uniflora* — 14: 187  
 Page, V.M. — Anatomical variation in the wood of *Robinia pseudoacacia* L. and the identity of Miocene fossil woods from southwestern United States — 14: 299  
 Prior, J. & Gasson, P. — Anatomical changes on charring six African hardwoods — 14: 77  
 Sahri, Mohd. H., Hanum Ibrahim, F. & Shukor, N.A. Ab. — Anatomy of *Acacia mangium* grown in Malaysia — 14: 245  
 Saitoh, T., Ohtani, J. & Fukazawa, K. — The occurrence and morphology of tyloses and gums in the vessels of Japanese hardwoods — 14: 359  
 Savidge, R.A. — In vitro wood formation in 'chips' from merchantable stem regions of *Larix laricina* — 14: 3  
 Singh, A.P., Nilsson, T. & Daniel, G.F. — *Alstonia scholaris* vestures are resistant to degradation by tunnelling bacteria — 14: 119  
 Sugawa, T. & Fujii, T. — Aggregate rays of *Thujopsis dolabrata* var. *hondai* (Cupressaceae) — 14: 315  
 Van Veenendaal, W.L.H. & Den Outer, R.W. — Development of included phloem and organisation of the phloem network in the stem of *Strychnos millepunctata* (Loganiaceae) — 14: 253  
 Weiner, G. & Liese, W. — Generic identification key to rattan palms based on stem anatomical characters — 14: 55  
 Wilcox, W.W. — Comparative morphology of early stages of brown-rot wood decay — 14: 127  
 Wilcox, W.W. — Comparison of scanning electron microscopy and light microscopy for the diagnosis of early stages of brown rot wood decay — 14: 219  
 Yamamoto, F., Shimizu, S. & Hashizume, H. — Anatomy of stem hyperplasia called tokkuri-disease in *Chamaecyparis obtusa* — 14: 227  
 Yoshizawa, N., Watanabe, N., Yokota, S. & Idei, T. — Distribution of guaiacyl and syringyl lignins in normal and compression wood of *Buxus microphylla* var. *insularis* Nakai — 14: 139

#### **IAWA Journal – Volume 15 (1994)**

- Abe, H., Ohtani, J. & Fukazawa, K. — A scanning electron microscopic study of changes in microtubule distributions during secondary wall formation in tracheids — 15: 185  
 Anagnost, S.E., Meyer, R.W. & DeZeeuw, C. — Confirmation and significance of Bartholin's method for the identification of the wood of *Picea* and *Larix* — 15: 171  
 Bosman, M.T.M., De Kort, I., Van Genderen, M.K. & Baas, P. — Radial variation in wood properties of naturally and plantation grown light red meranti (*Shorea*, Dipterocarpaceae) — 15: 111

- Bucur, V., Herbé, C. & Nosei, G. — Annual ring characteristics of *Pinus taeda* measured by ultrasonic and X-ray techniques — 15: 121
- Carlquist, S. — Wood and bark anatomy of *Argemone* (Papaveraceae) — 15: 247
- Catesson, A.M., Funada, R., Robert-Baby, D., Quinet-Szély, M., Chu-Bâ, J. & Goldberg, R. — Biochemical and cytochemical cell wall changes across the cambial zone — 15: 91
- Cevallos-Ferriz, S.R.S. & Barajas-Morales, J. — Fossil woods from the El Cien Formation in Baja California Sur: Leguminosae — 15: 229
- Dute, R.R. — Pit membrane structure and development in *Ginkgo biloba* — 15: 75
- Eom, Y.G. & Chung, Y.J. — Tumor wood anatomy in Korean red pine (*Pinus densiflora*) — 15: 149
- Gourlay, I.D. & Grime, G.W. — Calcium oxalate crystals in African *Acacia* species and their analysis by scanning proton microprobe (SPM) — 15: 137
- Hayden, S.M. & Hayden, W.J. — Stem development, medullary bundles, and wood anatomy of *Croton glandulosus* var. *septentrionalis* (Euphorbiaceae) — 15: 51
- Heady, R.D., Cunningham, R.B., Donnelly, C.F. & Evans, P.D. — Morphology of warts in the tracheids of cypress pine (*Callitris* Vent.) — 15: 265
- Hillis, W.E. & Soenardi, P. — Formation of ebony and streaked woods — 15: 425
- Junikka, L. — Survey of English macroscopic bark terminology — 15: 3
- Lindorf, H. — Eco-anatomical wood features of species from a very dry tropical forest — 15: 361
- Lisboa, P.L.B. — Notes on South American cedar (*Credela fissilis*) in the sacred art of Brazil — 15: 47
- Nagai, S., Ohtani, J., Fukazawa, K. & Wu, Jing — SEM observations on perforated ray cells — 15: 293
- Noshiro, S. & Fujii, T. — Fusiform parenchyma cells in the young wood of Pinaceae and their distinction from marginal parenchyma — 15: 399
- Otegui, M.S. — Occurrence of perforated ray cells and ray splitting in *Rapanea laetevirens* and *R. lorentziana* (Myrsinaceae) — 15: 257
- Oven, P. & Torelli, N. — Wound response of the bark in healthy and declining silver firs (*Abies alba*) — 15: 407
- Peszlen, I. — Influence of age on selected anatomical properties of *Populus* clones — 15: 311
- Potgieter, M.J. & Van Wyk, A.E. — Bark structure of the southern African Icacinaceae — 15: 161
- Ridoutt, B.G. & Sands, R. — Quantification of the processes of secondary xylem fibre development in *Eucalyptus globulus* at two height levels — 15: 417
- Rioux, D. — Anatomy and ultrastructure of pith fleck-like tissues in some Rosaceae tree species — 15: 65
- Sano, Y. & Fukazawa, K. — Structural variations and secondary changes in pit membranes in *Fraxinus mandshurica* var. *japonica* — 15: 283
- Schmitt, U. & Liese, W. — Wound tyloses in *Robinia pseudoacacia* L. — 15: 157
- Stokke, D.D. & Manwiller, F.G. — Proportions of wood elements in stem, branch, and root wood of black oak (*Quercus velutina*) — 15: 301
- Trockenbrodt, M. — Quantitative changes of some anatomical characters during bark development in *Quercus robur*, *Ulmus glabra*, *Populus tremula* and *Betula pendula* — 15: 387
- Tyree, M.T., Davis, S.D. & Cochard, H. — Biophysical perspectives of xylem evolution: is there a tradeoff of hydraulic efficiency for vulnerability to dysfunction? — 15: 335
- Wilcox, W.W. — Osmium staining fails to detect early cell wall damage in brown rot wood decay — 15: 133
- Woodcock, D.W. — Occurrence of woods with a gradation in vessel diameter across a ring — 15: 377
- Yang, K.C., Chen, Y.S. & Benson, C.A. — Vertical and radial variation of nuclear elongation index of living sapwood ray parenchyma cells in a plantation tree of *Cryptomeria japonica* — 15: 323

#### **IAWA Journal – Volume 16 (1995)**

- Alves, E. Segala — The effects of the pollution on wood of *Cecropia glazioui* (Cecropiaceae) — 16: 69
- Buckley, B.M., Barbetti, M., Watanasak, M., D'Arrigo, D.R., Boonchirdchoo, S. & Sarutanon, S. — Dendrochronological investigations in Thailand — 16: 393
- Calvin, C.L. & Wilson, C.A. — Relationship of the mistletoe *Phoradendron macrophyllum* (Viscaceae) to the wood of its host — 16: 33
- Carlquist, S., Dauer, K. & Nishimura, S.Y. — Wood and stem anatomy of Saururaceae with reference to ecology, phylogeny, and origin of the monocotyledons — 16: 133
- Del Fueyo, G.M., Taylor, E.L., Taylor, T.N. & Cúneo, N.R. — Triassic wood from the Gordon Valley, central Transantarctic Mountains, Antarctica — 16: 111
- Den Outer, R.W. & Van Veenendaal, W.L.H. — Development of included phloem in the stem of *Combretum nigrican* (Combretaceae) — 16: 151
- Devall, M.S., Parresol, B.R. & Wright, S.J. — Dendroecological analysis of *Cordia alliodora*, *Pseudobombax septenatum* and *Annona spraguei* in central Panama — 16: 411

- Dias-Leme, C.L., Gasson, P. & Lughadha, E.N. — Wood anatomy of four Myrtaceae genera in the subtribe Myrsiinae from South America — 16: 87
- Eckstein, D., Scholz, R. & Klein, H. — Wood anatomical studies of cloned spruce trees fumigated with sulphur dioxide — 16: 299
- February, E.C., Stock, W.D., Bond, W.J. & Le Roux, D.J. — Relationships between water availability and selected vessel characteristics in *Eucalyptus grandis* and two hybrids — 16: 269
- Gourlay, I.D. — The definition of seasonal growth zones in some African *Acacia* species — A review — 16: 353
- Ilic, J. — Distinguishing the woods of *Araucaria cunninghamii* (Hoop Pine) and *Araucaria bidwilli* (Bunya Pine) — 16: 255
- Ismail, J., Jusoh, M.Z. & Sahri, M.H. — Anatomical variation in planted Kelempayan (*Neolamarckia cadamba*, Rubiaceae) — 16: 277
- Killmann, W. & Hong, L.T. — The periodicity of growth in tropical trees with special reference to Dipterocarpaceae — A review — 16: 329
- Leitch, M.A. & Savidge, R.A. — Evidence for auxin regulation of bordered-pit positioning during tracheid differentiation in *Larix laricina* — 16: 289
- Lewis, A.M. — A video technique for imaging the three-dimensional architecture of wood — 16: 81
- Li Baizhong, Ter Welle, B.J.H. & Klaassen, R.K.W.M. — Wood anatomy of trees and shrubs from China. VII. Sapindaceae — 16: 191
- Mariaux, A. — Growth periodicity in tropical trees — Foreword — 16: 327
- Nobuchi, T., Ogata, Y. & Siripatanadilok, S. — Seasonal characteristics of wood formation in *Hopea odorata* and *Shorea henryana* — 16: 361
- Oskolski, A.A. — Wood anatomy of *Schefflera* and related taxa (Araliaceae) — 16: 159
- Pumijumnong, N., Eckstein, D. & Sass, U. — Tree-ring research on *Tectona grandis* in northern Thailand — 16: 385
- Rudall, P. — New records of secondary thickening in monocotyledons — 16: 261
- Sass, U., Killmann, W. & Eckstein, E. — Wood formation in two species of Dipterocarpaceae in Peninsular Malaysia — 16: 371
- Schmitt, U., Liese, W., Hong, L.T. & Killmann, W. — The mechanisms of wound response in *Acacia mangium* — 16: 425
- Schmitt, U., Weiner, G. & Liese, W. — The fine structure of the stigmata in *Calamus axillaris* during maturation — 16: 61
- Weiner, G. & W. Liese — Wound response in the stem of the Royal palm — 16: 433
- Wheeler, E.A. — Wood of *Platanus kerrii* — 16: 127
- Wheeler, E.A., McClammer, J. & LaPasha, C.A. — Similarities and differences in dicotyledonous woods of the Cretaceous and Paleocene. San Juan Basin, New Mexico, USA — 16: 223
- Worbes, M. — How to measure growth dynamics in tropical trees — A review — 337
- Yamamoto, F., Sakata, T. & Terazawa, K. — Growth, morphology, stem anatomy, and ethylene production in flooded *Alnus japonica* seedlings — 16: 47

#### **IAWA Journal — Volume 17 (1996)**

- Baas, P. & Wheeler, E.A. — Parallelism and reversibility in xylem evolution — A review — 17: 351
- Bosman, M.T.M. — Longitudinal variation in selected wood properties of naturally and plantation grown Light Red Meranti (*Shorea leprosula* and *S. parvifolia*, Dipterocarpaceae) — 17: 5
- Den Outer, R.W. & Van Veenendaal, W.L.H. — Wood anatomy of the *Aphanocalyx*-*Monopetalanthus* complex (Caesalpinoideae) — 17: 205
- Donaldson, L.A. — Effect of physiological age and site on microfibril angle in *Pinus radiata* — 17: 421
- Dute, R.R., Freeman, J.D., Hennings, F. & Barnard, L.D. — Intervascular pit membrane structure in *Daphne* and *Wikstroemia* — Systematic implications — 17: 161
- Eom, Young Geun & Youn Jib Chung — Perforated ray cells in Korean Caprifoliaceae — 17: 37
- Gasson, P. — Wood anatomy of the tribe Swartzieae with comments on related Papilionoid and Caesalpinioid Leguminosae — 17: 45
- Hillis, W.E. — Formation of robinetin crystals in vessels of *Intsia* species — 17: 405
- Kondo, Y., Fujii, T., Hayashi, Y. & Kato, A. — Organic crystals in the tracheids of *Torreya yunnanensis* — 17: 393
- Lee, C.H. & S.Y. Wang, S.Y. — A new technique for the demarcation between juvenile and mature wood in *Cryptomeria japonica* — 17: 125
- Lei, H., Milota, M.R. & Gartner, B.L. — Between- and within-tree variation in the anatomy and specific gravity of wood in Oregon white oak (*Quercus garryana* Dougl.) — 17: 445
- Lev-Yadun, S. — Circular vessels in the secondary xylem of *Arabidopsis thaliana* (Brassicaceae) — 17: 31
- Lim, D.O. — Spiral growth in *Cudrania tricuspidata* caused by liana entwinement — 17: 133

- Nunes, E., Quilho, T. & Pereira, H. — Anatomy and chemical composition of *Pinus pinaster* bark — 17: 141  
 Putz, M.K. & Taylor, E.L. — Wound response in fossil trees from Antarctica and its potential as a Paleoenvironmental indicator — 17: 77  
 Rao, K.S., Rajput, K.S. & Srinivas, T. — Comparative structure of vascular cambium and its derivatives in some species of *Sterculia* — 17: 311  
 Richter, H.G., Krause, U.-J. & Muche, C. — *Dalbergia congestiflora* Standl.: wood structure and physico-chemical properties compared with other Central American species of *Dalbergia* — 17: 327  
 Savidge, R.A. — Xylogenesis, genetic and environmental regulation — A review — 17: 269  
 Schmitt, U., Richter, H.G. & Wittke, B. — Fracture morphology of hickory (*Carya* spp., Juglandaceae) under single-blown impact loading — 17: 151  
 Suzuki, M. & Terada, K. — Fossil wood flora from the lower Miocene Yanagida Formation, Noto Peninsula, Central Japan — 17: 365  
 Suzuki, M., Yoda, K. & Suzuki, H. — Phenological comparison of the onset of vessel formation between ring-porous and diffuse-porous deciduous trees in a Japanese temperate forest — 17: 431  
 Thorsch, J.A. & Cheadle, V.L. — Vessels in Eriocaulaceae — 17: 183  
 Utsumi, Y., Sano, Y., Ohtani, J. & Fujikawa, S. — Seasonal changes in the distribution of water in the outer growth rings of *Fraxinus mandshurica* var. *japonica*: a study by cryo-scanning electron microscopy — 17: 113  
 Wang, Hsiu Hwa & Youngs, R.L. — Drying stress and check development in the wood of two oaks — 17: 15  
 Wang, Ru-feng, Wang, Yu-fei & Chen, Yong-she — *Cupressinoxylon jiayinense*, a new species of the Late Cretaceous from Heilong-jiang Province, China — 17: 319

**IAWA Journal** — Volume 18 (1997)

- Angeles, G. & León-Gómez, C. — Bark anatomy of four tropical Vitaceae from Veracruz, Mexico — 18: 215  
 Ashworth, V.E.T.M. & Santos, G. dos — Wood anatomy of four Californian mistletoe species (*Phoradendron*, Viscaceae) — 18: 229  
 Bosman, M.T.M. — Variability in wood properties of six-year-old planted meranti trees (*Shorea leprosula*, *S. parvifolia* and *S. pauciflora*, Dipterocarpaceae) — 18: 405  
 Callado, C.H. & Costa, C.G. — Wood anatomy of some *Anaueria* and *Beilschmiedia* species (Lauraceae) — 18: 247  
 Calvin, C.L. — Host-formed tyloses in vessels of the mistletoe *Phoradendron* (Viscaceae) — 18: 117  
 Carlquist, S. — *Pentaphragma*: a unique wood and its significance — 18: 3  
 Costa, C.G., Rauber Coradin, V.T., Czarneski, C.M. & Pereira, B.A. da S. — Bark anatomy of arborescent Leguminosae of cerrado and gallery forest of Central Brazil — 18: 385  
 D'Arrigo, R.D., Barbetti, M., Watanasak, M., Buckley, B., Krusic, P., Boonchirdchoo, S. & Sarutanon, S. — Progress in dendroclimatic studies of mountain pine in northern Thailand — 18: 433  
 De Kort, I. & Baas, P. — Ring width patterns of Douglas fir in relation to crown vitality and age — 18: 53  
 Encinas, O. & Daniel, G. — Degradation of the gelatinous layer in aspen and rubberwood by the blue stain fungus *Lasiodiplodia theobromae* — 18: 107  
 Ewers, F.W., Carlton, M.R., Fisher, J.B., Kolb, K.J. & Tyree, M.T. — Vessel diameters in roots versus stems of tropical lianas and other growth forms — 18: 261  
 Fujii, T., Suzuki, Y. & Kuroda, N. — Bordered pit aspiration in the wood of *Cryptomeria japonica* in relation to air permeability — 18: 69  
 Illic, J. — Woods of *Eucalyptus*. Part 1. Distinguishing three species from the ash group (*E. regnans*, *E. delegatensis* and *E. obliqua*) — 18: 27  
 Jansen, S., Robbrecht, E., Beeckman, H. & Smets, E. — Wood anatomy of the predominantly African representatives of the tribe Psychotrieae (Rubiaceae–Rubioideae) — 18: 169  
 Koga, S., Oda, K., Tsutsumi, J. & Fujimoto, T. — Effect of thinning on the wood structure in annual growth rings of Japanese larch (*Larix leptolepis*) — 18: 281  
 Kuroda, K. & Kiyono, Y. — Seasonal rhythms of xylem growth measured by the wounding method and with a band-dendrometer: An instance of *Chamaecyparis obtusa* — 18: 291  
 Lim, Dong Ok & Woong Young Soh — Cambial development and tracheid length of dwarf pines (*Pinus densiflora* and *P. thunbergii*) — 18: 301  
 Lindorf, H. — Wood and leaf anatomy in *Sessea corymbiflora* from an ecological perspective — 18: 157  
 Machado, S.R., Angyalossy-Alfonso, V. & De Morretes, B.L. — Comparative wood anatomy of root and stem in *Styrax camporum* (Styracaceae) — 18: 13  
 Mennega, A.M.W. — Wood anatomy of the Hippocrateoideae (Celastraceae) — 18: 331  
 Murphy, R.J. & Alvin, K.L. — Fibre maturation in the bamboo *Gigantochloa scorchedinii* — 18: 147  
 Priya, P.B. & Bhat, K.M. — Wood anatomical changes in juvenile teak due to insect defoliation — 18: 311  
 Rajput, K.S. & Rao, K.S. — Occurrence of sieve elements in phloem rays — 18: 197

- Rao, R.V., Aebscher, D.P. & Denne, M.P. — Latewood density in relation to wood fibre diameter, wall thickness, and fibre and vessel percentages in *Quercus robur* — 18: 127
- Santos, G. dos & Miller, R.B. — Wood anatomy of *Jacaranda* (Bignoniaceae): systematic relationships in sections *Monolobos* and *Dilobos* as suggested by twig and stem wood rays — 18: 369
- Schmitt, U., Richter, H.G. & Muche, C. — TEM study of wound-induced vessel occlusions in European Ash (*Fraxinus excelsior* L.) — 18: 401
- Ter Steege, H., Ter Welle, B.J.H. & Laming, P.B. — The possible function of buttresses in *Caryocar nuciferum* (Caryocaraceae) in Guyana: ecological and wood anatomical observations — 18: 415
- Van der Burgt, X.M. — Determination of the age of *Pinus occidentalis* in La Celestina, Dominican Republic, by the use of growth rings — 18: 139
- Villagra, P.E. & Roig Juñent, F.A. — Wood structure of *Prosopis alpataco* and *P. argentina* growing under different edaphic conditions — 18: 37
- Wimmer, R. & Lucas, B.N. — Comparing mechanical properties of secondary wall and cell corner middle lamella in spruce wood — 18: 77

#### **IAWA Journal – Volume 19 (1998)**

- Anagnost, S.E. — Light microscopic diagnosis of wood decay — 19: 141
- André, J.-P. — A study of the vascular organization of bamboos (Poaceae–Bambuseae) using a microcasting method — 19: 265
- Bäucker, E., Bues, C.-T. & Vogel, M. — Radial growth dynamics of spruce (*Picea abies*) measured by microcores — 19: 301
- Carlquist, S. — Wood and bark anatomy of Caricaceae; correlations with systematics and habit — 19: 191
- Carlquist, S. — Wood and stem anatomy of *Petiveria* and *Rivina* (Caryophyllales); Systematic implications — 19: 383
- Dias-Leme, C.L. & Angyalossy-Alfonso, V. — Intrusive cavities in Euphorbiaceae fibre walls — 19: 279
- Donaldson, L.A. & Lausberg, M.J.F. — Comparison of conventional transmitted light and confocal microscopy for measuring wood cell dimensions by image analysis — 19: 321
- Gasson, P., Jarvis, Ph. & Page, W. — Wood anatomy of twelve species with potential for reintroduction on Round Island, Mauritius — 19: 393
- Herman, M., Dutilleul, P. & Avella-Shaw, T. — Intra-ring and inter-ring variations of tracheid length in fast-grown versus slow-grown Norway spruces (*Picea abies*) — 19: 3
- Hudson, I., Wilson, L. & Van Beveren, K. — Vessel and fibre property variation in *Eucalyptus globulus* and *Eucalyptus nitens*: some preliminary results — 19: 111
- Jansen, S. & Smets, E. — Vestured pits in some woody Gentianaceae — 19: 35
- Jansen, S., Smets, E. & Baas, P. — Vestures in woody plants: A review — 19: 347
- Jiang, S., Honma, T., Nakamura, T., Furukawa, I. & Yamamoto, F. — Regulation by uniconazole-P and gibberellins of morphological and anatomical responses of *Fraxinus mandshurica* seedlings to gravity — 19: 311
- Kuroda, K. — Seasonal variation in traumatic resin canal formation in *Chamaecyparis obtusa* phloem — 19: 181
- Lev-Yadun, S. — The relationship between growth-ring width and ray density and ray height in cell number in the earlywood of *Pinus halepensis* and *Pinus pinea* — 19: 131
- Levin, L. & Castro, M.A. — Anatomical study of the decay caused by the white-rot fungus *Trametes trogii* (Aphyllophorales) in wood of *Salix* and *Populus* — 19: 169
- Matsumura, J., Booker, R.E., Donaldson, L.A. & Ridoutt, B.G. — Impregnation of radiata pine wood by vacuum treatment: identification of flow paths using fluorescent dye and confocal microscopy — 19: 25
- Morrow, A.C. & Dute, R.R. — Developmental and structure of pit membranes in the rhizome of the woody fern *Botrychium dissectum* — 19: 429
- Nair, M.N.B. & S.V. Subrahmanyam, S.V. — Ultrastructure of the epithelial cells and oleo-gumresin secretion in *Boswellia serrata* (Burseraceae) — 19: 415
- Noshiro, S. & Baas, P. — Systematic wood anatomy of Cornaceae and allies — 19: 43
- Sano, Y. & Nakada, R. — Time course of the secondary deposition of incrusting materials on bordered pit membranes in *Cryptomeria japonica* — 19: 285
- Sidiyasa, K. & Baas, P. — Ecological and systematic wood anatomy of *Alstonia* (Apocynaceae) — 19: 207
- Wheeler, E.A. & Baas, P. — Wood identification – A review — 19: 241

#### **IAWA Journal – Volume 20 (1999)**

- Abasolo, W., Yoshida, M., Yamamoto, H. & Okuyama, T. — Internal stress generation in rattan canes — 20: 45
- Barnes, R.D., Plumptre, R.A., Quilter, T.K., Morris, A.R., Burley, J. & Palmer, E.R. — The use of stem dissection to sample trees of different ages for determining pulping properties of tropical pines — 20: 37

- Bhattacharyya, A. & Yadav, R.R. — Climatic reconstructions using tree-ring data from tropical and temperate regions of India — 20: 311
- Borchert, R. — Climatic periodicity, phenology and cambium activity in tropical dry forest trees — 20: 239
- Borgaonkar, H.P., Pant, G.B. & Kumar, K.R. — Tree-ring chronologies from Western Himalaya and their dendroclimatic potential — 20: 295
- Bräuning, A. — Dendroclimatological potential of drought-sensitive tree stands in Southern Tibet for the reconstruction of monsoonal activity — 20: 325
- Carlquist, S. — Wood and stem anatomy of *Stegnosperma* (Caryophyllales); phylogenetic relationships; nature of lateral meristems and successive cambial activity — 20: 149
- Carlquist, S. — Wood anatomy, stem anatomy, and cambial activity of *Barbeuia* (Caryophyllales) — 20: 431
- Chaudhary, V., Bhattacharyya, A. & Yadav, R.R. — Tree-ring studies in the Eastern Himalayan region — 20: 317
- Dakak, J.E., Keller, R. & Bucur, V. — Rays in juvenile wood of *Acer* — 20: 405
- Denne, M.P. & Hale, M.D. — Cell wall and lumen percentages in relation to wood density of *Nothofagus nervosa* — 20: 23
- Dute, R.R., Duncan, K.M. & Duke, B. — Tyloses in abscission scars of loblolly pine — 20: 67
- Garfin-Woll, G.M. — Interannual variability of Asian monsoon precipitation, 1953–1982, using instrumental records — 20: 227
- Gasson, P. — Wood anatomy of the tribe Dipterygeae with comments on related papilionoid and caesalpinioid Leguminosae — 20: 441
- Gasson, P. & Webley, P. — Wood anatomy of *Exostyles venusta* (Swartzieae, Papilionoideae, Leguminosae) — 20: 59
- Herman, M., Dutilleul, P. & Avella-Shaw, T. — Growth rate effects on *intra*-ring and *inter*-ring trajectories of microfibril angle in Norway spruce (*Picea abies*) — 20: 3
- Höhn, A. — Wood anatomy of selected West African species of Caesalpinoideae and Mimosoideae (Leguminosae): A comparative study — 20: 115
- Hua, Q., Barbetti, Worbes, M., Head, J. & Levchenko, V.A. — Review of radiocarbon data from atmospheric and tree-ring samples for the period 1945–1997 AD — 20: 261
- Itabashi, T., Yokota, S. & Yoshizawa, N. — The seasonal occurrence and histology of septate fibers in *Kalopanax pictus* — 20: 395
- Jacoby, G., D'Arrigo, R., Pederson, N., Buckley, B., Dugarjav, C. & Mijiddorj, R. — Temperature and precipitation in Mongolia based on dendroclimatic investigations — 20: 339
- Leitch, M.A., Savidge, R.A., Downes, G.M. & Hudson, I.L. — Induction of tyloses in *Eucalyptus globulus* ‘chips’ — 20: 193
- Lev-Yadun, S. — Eccentric deposition of secondary xylem in stems of the climber *Ephedra campylopoda* (Gnetales) — 20: 165
- Lindorf, H. — Perforated ray cells in *Saracha quitensis* (Solanaceae) — 20: 75
- Morrow, A.C. & Dute, R.R. — Electron microscopic investigation of the coating found on torus-bearing pit membranes of *Botrychium dissectum*, the common grape fern — 20: 359
- Priya, P.B. & Bhat, K.M. — Influence of rainfall, irrigation and age on the growth periodicity and wood structure in teak (*Tectona grandis*) — 20: 181
- Psaras, G.K. & Sofroniou, I. — Wood anatomy of *Capparis spinosa* from an ecological perspective — 20: 419
- Pumijumnong, N. & Park, Won-Kyu — Vessel chronologies from teak in Northern Thailand and their climatic signal — 20: 285
- Quilhó, T., Pereira, H. & Richter, H.G. — Variability of bark structure in plantation-grown *Eucalyptus globulus* — 20: 171
- Rajput, K.S. & Rao, K.S. — Nucleated wood fibres in some members of Combretaceae — 20: 79
- Rao, K.S. & Rajput, K.S. — Seasonal behaviour of vascular cambium in teak (*Tectona grandis*) growing in moist deciduous and dry deciduous forests — 20: 85
- Ruel, K., Burlat, V. & Joseleau, J-P. — Relationship between ultrastructural topochemistry of lignin and wood properties — 20: 203
- Sano, Y., Kawakami, Y. & Ohtani, J. — Variation in the structure of intertracheary pit membranes in *Abies sachalinensis*, as observed by field-emission scanning electron microscopy — 20: 375
- Stahle, D.W. — Useful strategies for the development of tropical tree-ring chronologies — 20: 249
- Toghraie, N., Hosseinzadeh, A., Hejazi, R. & Yazdani, H.R. — A computerized system for wood research and identification – A technical note — 20: 147
- Worbes, M. & Junk, W.J. — How old are tropical trees? The persistence of a myth — 20: 255
- Xu, Jianhua & Liese, W. — On the occurrence of wart-like structures in rattan — 20: 389