**IAWA Bulletin New Series - Volume 4(1)**

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| **Author(s):** | Editors IAWA Journal |
| **Title:** | **Preliminary material** |
| **Source:** | IAWA Bulletin NS, Volume 4, Issue 1 |
| **Publication Year:** | 1983 |
| **Pages:** | 3-13 |
| **Keywords:** |  |
| **Abstract:** |  |
| **DOI:** | [10.1163/22941932-90000768](http://dx.doi.org/10.1163/22941932-90000768) |

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| **Author(s):** | Editors IAWA Journal |
| **Title:** | **Reviews** |
| **Source:** | IAWA Bulletin NS, Volume 4, Issue 1 |
| **Publication Year:** | 1983 |
| **Pages:** | 14-14 |
| **Keywords:** |  |
| **Abstract:** |  |
| **DOI:** | [10.1163/22941932-90000769](http://dx.doi.org/10.1163/22941932-90000769) |

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| **Author(s):** | J.C. Roland; M. Mosiniak |
| **Title:** | **On the Twisting Pattern, Texture and Layering of the Secondary Cell Walls of Lime Wood. Proposal of an Unifying Model** |
| **Source:** | IAWA Bulletin NS, Volume 4, Issue 1 |
| **Publication Year:** | 1983 |
| **Pages:** | 15-26 |
| **Keywords:** |  |
| **Abstract:** |  |
| **DOI:** | [10.1163/22941932-90000770](http://dx.doi.org/10.1163/22941932-90000770) |

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| **Author(s):** | Tambra Thompson; Richard Jagels |
| **Title:** | **Intervascular Pit Plugs in the Transition Zone Between Sapwood and Wetwood of Ulmus Americana L.** |
| **Source:** | IAWA Bulletin NS, Volume 4, Issue 1 |
| **Publication Year:** | 1983 |
| **Pages:** | 27-31 |
| **Keywords:** | X-ray analysis; potassium; scanning electron microscopy; pit deposits; elm; wetwood; calcium; vessels |
| **Abstract:** | Scanning electron microscoPlc analysis of freeze-dried American elm wood revealed the presence of unique plugs in bordered pit chambers of vascular elements. Non-dispersive X-ray analysis of these plugs demonstrated the presence of high levels of calcium and potassium. Some pits contained only fragmentary deposits or bacteria. An hypo thesis is proposed to account for the precipitation of CaCO3 in the bordered pit chambers of vascular elements at the sapwood-wetwood boundary, resulting in the formation of amorphous plugs that fil! the pit chamber. |
| **DOI:** | [10.1163/22941932-90000771](http://dx.doi.org/10.1163/22941932-90000771) |

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| **Author(s):** | Fukuju Yamamoto; Takeshi Nakayama; Tamio Suzaki |
| **Title:** | **Vascular Differentiation in Callus of Cryptomeria Japonica D. Don in vitro** |
| **Source:** | IAWA Bulletin NS, Volume 4, Issue 1 |
| **Publication Year:** | 1983 |
| **Pages:** | 32-38 |
| **Keywords:** |  |
| **Abstract:** |  |
| **DOI:** | [10.1163/22941932-90000772](http://dx.doi.org/10.1163/22941932-90000772) |

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| **Author(s):** | Lilly Mathew; G. L. Shah |
| **Title:** | **Vestured Pits and Warts in Verbenaceae** |
| **Source:** | IAWA Bulletin NS, Volume 4, Issue 1 |
| **Publication Year:** | 1983 |
| **Pages:** | 39-40 |
| **Keywords:** |  |
| **Abstract:** |  |
| **DOI:** | [10.1163/22941932-90000773](http://dx.doi.org/10.1163/22941932-90000773) |

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| **Author(s):** | George Tsoumis |
| **Title:** | **Sem Observations on Irradiated Old Wood** |
| **Source:** | IAWA Bulletin NS, Volume 4, Issue 1 |
| **Publication Year:** | 1983 |
| **Pages:** | 41-45 |
| **Keywords:** |  |
| **Abstract:** |  |
| **DOI:** | [10.1163/22941932-90000774](http://dx.doi.org/10.1163/22941932-90000774) |

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| **Author(s):** | Mohammad Iqbal; A.K.M. Ghouse |
| **Title:** | **An Analytical Study on Cell Size Variation in Some Arid Zone Trees of India: Acacia Nilotica and Prosopis Spicigera** |
| **Source:** | IAWA Bulletin NS, Volume 4, Issue 1 |
| **Publication Year:** | 1983 |
| **Pages:** | 46-52 |
| **Keywords:** |  |
| **Abstract:** |  |
| **DOI:** | [10.1163/22941932-90000775](http://dx.doi.org/10.1163/22941932-90000775) |

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| **Author(s):** | R.W. den Outer; W.L.H. van Veenendaal |
| **Title:** | **Wood Anatomy of Uncarina Leandrii H. Humb. (Pedaliaceae) and Its Relation to Bignoniaceae** |
| **Source:** | IAWA Bulletin NS, Volume 4, Issue 1 |
| **Publication Year:** | 1983 |
| **Pages:** | 53-59 |
| **Keywords:** |  |
| **Abstract:** |  |
| **DOI:** | [10.1163/22941932-90000776](http://dx.doi.org/10.1163/22941932-90000776) |

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| **Author(s):** | Pieter Baas |
| **Title:** | **Reviews and Announcements** |
| **Source:** | IAWA Bulletin NS, Volume 4, Issue 1 |
| **Publication Year:** | 1983 |
| **Pages:** | 60-61 |
| **Keywords:** |  |
| **Abstract:** |  |
| **DOI:** | [10.1163/22941932-90000777](http://dx.doi.org/10.1163/22941932-90000777) |

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| **Author(s):** | Editors IAWA Journal |
| **Title:** | **Wood Anatomy News** |
| **Source:** | IAWA Bulletin NS, Volume 4, Issue 1 |
| **Publication Year:** | 1983 |
| **Pages:** | 62-62 |
| **Keywords:** |  |
| **Abstract:** |  |
| **DOI:** | [10.1163/22941932-90000778](http://dx.doi.org/10.1163/22941932-90000778) |

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| **Author(s):** | Editors IAWA Journal |
| **Title:** | **Association Affairs** |
| **Source:** | IAWA Bulletin NS, Volume 4, Issue 1 |
| **Publication Year:** | 1983 |
| **Pages:** | 62-62 |
| **Keywords:** |  |
| **Abstract:** |  |
| **DOI:** | [10.1163/22941932-90000779](http://dx.doi.org/10.1163/22941932-90000779) |