



REINWARDTIA

A JOURNAL ON TAXONOMIC BOTANY, PLANT SOCIOLOGY AND ECOLOGY

Vol. 18 (2): 51 – 133, December 10, 2019

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Cover images: *Dinochloa glabra* Widjaja & Ervianti, *spec. nov.* A. Culm sheath. B. Leaves. C. Leaf sheath. D. Inflorescence (1. Floret. 2. Palea. 3. Lemma. 4. Glume (a, b, c). 5. Lodicule (a, b, c). 6. Anthers. 7. Stigma. 8. Fruit). From *Widjaja EAW 8864* (BO), drawing by Wahyudi Santoso (BO).

The Editors would like to thank all reviewers of volume 18(2):

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Andrew Powling, School of Biological Sciences, University of Portsmouth, United Kingdom

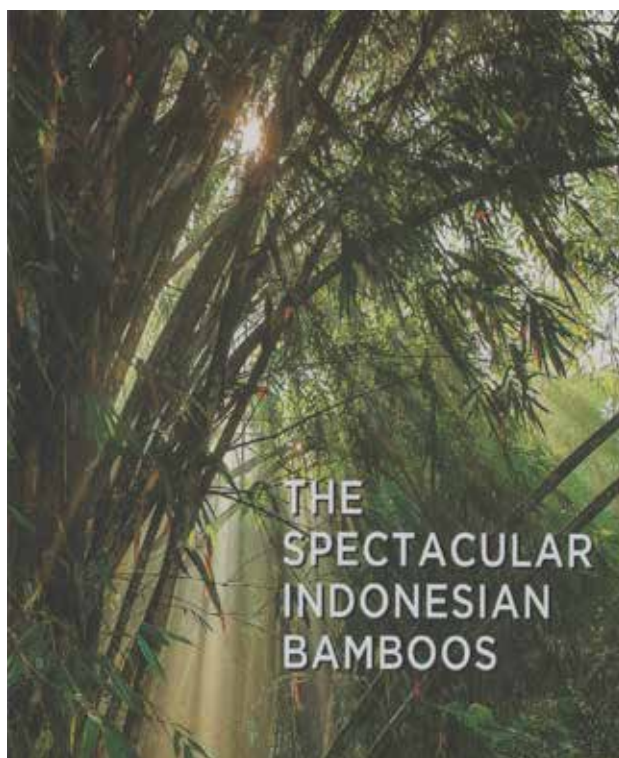
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BOOK REVIEW

Widjaja, E. A. 2019. *The Spectacular Indonesian Bamboos*. Design and printing Polagrade, ISBN 978-602-52326-0-2. Soft cover. Pp. 188, illustrated in full colour. Available from eawidjaja3003@gmail.com. Price \$55.

Bamboo is one of the most important natural resources of the tropics, and because of its wide distribution, availability, rapid growth, easy handling and desirable properties, it has been used widely in daily life of local communities as a locally sustainable resource. In Indonesia that is certainly the case. This book is the first account of bamboos in Indonesia describing various aspects of bamboos, except for classification.

The author provides a brief history of Indonesian bamboos in scientific literature, from Rumphius (1654) to the present day. Elizabeth A. Widjaja has been working on the bamboo taxonomy for the last 43 years, publishing many papers including the description of new genera and species occurring in Indonesia. The uses of bamboos are described in great detail, from bamboo knives to cut umbilical cords to building

materials and food (bamboo shoots), all illustrated with beautiful and informative colour pictures (taken by the author and various other people). When the author started working in the Herbarium Bogoriense, Bogor, Indonesia, there were 60 species of bamboos recorded as occurring in Indonesia, but now there are 176 species, found growing wild or cultivated or introduced. Indonesia is a big country and bamboo exploration by the author covers about 80% of the land area. These 176 species are presented in a most informative table (14 pages), covering botanical names, growing wild or introduced or in cultivation, endemism, distribution, vernacular names (local and international), and synonyms. There are 105 species recorded to be endemic. Among 176 species, 15 species which are the most important bamboos in Indonesia, are described and illustrated in colour pictures and a dot distribution maps. Each of these 15 species is presented with vernacular names, a description, uses and colour pictures of the habit, culms, culm sheaths, young shoots which will allow anyone to be able to recognise the species in the field.

Bamboo properties of selected species and guidelines culm preservation have been compiled and are discussed extensively. Tables of shoots, nutrition value, moisture content, specific gravity, tensile strength, modulus elasticity and rupture, compression strength, chemical properties, fibre characters, of selected species are presented very informatively.

The author hopes that the book will be useful for researchers and for reviving existing action plans of the development of sustainable and potentially highly profitable bamboo industries. The author also points out that Indonesia is rich in bamboo species that have not been completely explored. A full knowledge of Indonesian bamboos would and could help to contribute to the as yet incomplete classification of bamboos in general.

The most valuable bibliography contains over 200 titles.

The book is full of information and is recommended for anyone who is interested in bamboos. The author is to be congratulated on this beautiful and valuable volume.

SOEJATMI DRANSFIELD. Royal Botanic Gardens, Kew, Richmond, Surrey, TW9 3AE, UK.

INSTRUCTION TO AUTHORS

Scope. *Reinwardtia* is a scientific regular journal on plant taxonomy, plant ecology and ethnobotany published in June and December. Manuscript intended for a publication should be written in English.

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Abstract. English abstract followed by Indonesian abstract of not more than 250 words. Keywords should be given below each abstract.

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Identification key. Taxonomic identification key should be prepared using the aligned couplet type.

Nomenclature. Strict adherence to the International Code of Nomenclature is observed, so that taxonomic and nomenclatural novelties should be clearly shown. English description for new taxon proposed should be provided and the herbaria where the type specimens area deposited should be presented. Name of taxon in taxonomic treatment should be presented in the long form that is name of taxon, author's name, year of publication, abbreviated journal or book title, volume, number and page.

Map/line drawing illustration/photograph. Map, line drawing illustration, or photograph preferably should be prepared in landscape presentation to occupy two columns. Illustration must be submitted as original art accompanying, but separated from the manuscript. The illustration should be saved in JPG or GIF format at least 350 pixels. Legends or illustration must be submitted separately at the end of the manuscript.

References. Bibliography, list of literature cited or references follow the Harvard system as the following examples.

- Journal : KRAENZLIN, F. 1913. *Cyrtandraceae* novae Philippinenses I. *Philipp. J. Sci.* 8: 163–179.
MAYER, V., MOLLER, M., PERRET, M. & WEBER, A. 2003. Phylogenetic position and generic differentiation of *Epithemateae* (Gesneriaceae) inferred from plastid DNA sequence data. *American J. Bot.* 90: 321–329.
- Proceedings : TEMU, S. T. 1995. Peranan tumbuhan dan ternak dalam upacara adat “Djoka Dju” pada suku Lio, Ende, Flores, Nusa Tenggara Timur. In: NASUTION, E. (Ed.). *Prosiding Seminar dan Lokakarya Nasional Etnobotani II*. LIPI & Perpustakaan Nasional. Pp. 263–268. (In Indonesian).
SIMBOLON, H. & MIRMANTO, E. 2000. Checklist of plant species in the peat swamp forests of Central Kalimantan, Indonesia. In: IWAKUMA, T., INOUE, T., KOHYAMA, T., OSAKI, M., SIMBOLON, H., TACHIBANA, H., TAKAHASHI, H., TANAKA, N., YABE, K. (Eds.). *Proceedings of the International Symposium on: Tropical Peatlands*. Pp. 179 – 190.
- Book : RIDLEY, H. N. 1923. *Flora of the Malay Peninsula* 2. L. Reeve & Co. Ltd, London.
- Part of Book : BENTHAM, G. 1876. *Gesneriaceae*. In: BENTHAM, G. & HOOKER, J. D. (Eds.). *Genera Plantarum* 2. Lovell Reeve & Co., London. Pp. 990–1025.
- Thesis : BAIRD, L. 2002. *A Grammar of Kéo: An Austronesian Language of East Nusantara*. Australian National University, Canberra. [PhD. Thesis].
- Website : <http://www.nationaalherbarium.nl/fmcollectors/k/KostermansAJGH.html>. (Accessed 15 February 2012).



Reinwardtia

Published by Herbarium Bogoriense, Botany Division, Research Center for Biology,
Indonesian Institute of Sciences

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Reinwardtia is an accredited Journal (10/E/KPT/2019)

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