



Validation of *Synchysidendron*, gen. nov. (Fossiles)

Author(s): William A. DiMichele and Richard M. Bateman

Source: *Taxon*, Vol. 42, No. 3 (Aug., 1993), pp. 647-648

Published by: International Association for Plant Taxonomy (IAPT)

Stable URL: <http://www.jstor.org/stable/1222543>

Accessed: 27/08/2008 13:10

Your use of the JSTOR archive indicates your acceptance of JSTOR's Terms and Conditions of Use, available at <http://www.jstor.org/page/info/about/policies/terms.jsp>. JSTOR's Terms and Conditions of Use provides, in part, that unless you have obtained prior permission, you may not download an entire issue of a journal or multiple copies of articles, and you may use content in the JSTOR archive only for your personal, non-commercial use.

Please contact the publisher regarding any further use of this work. Publisher contact information may be obtained at <http://www.jstor.org/action/showPublisher?publisherCode=iapt>.

Each copy of any part of a JSTOR transmission must contain the same copyright notice that appears on the screen or printed page of such transmission.

JSTOR is a not-for-profit organization founded in 1995 to build trusted digital archives for scholarship. We work with the scholarly community to preserve their work and the materials they rely upon, and to build a common research platform that promotes the discovery and use of these resources. For more information about JSTOR, please contact support@jstor.org.

Validation of *Synchysidendron*, gen. nov. (Fossiles)William A. DiMichele¹ & Richard M. Bateman²*Summary*

DiMichele, W. A. & Bateman, R. M.: Validation of *Synchysidendron*, gen. nov. (Fossiles). – *Taxon* 42: 647-648. 1993. – ISSN 0040-0262.

Omission of the type citation in an earlier publication requires republication to validate the name of the genus *Synchysidendron* and of its constituent species, *S. resinosum* and *S. dicentricum* (Pennsylvanian lycopsids).

In our recent description of a new genus of lycopsids from the Carboniferous (Pennsylvanian), *Synchysidendron* DiMichele & Bateman (1992), we neglected to designate the type of the generic name. Under Art. 37.1 of the botanical *Code*, on or after 1 Jan 1958, the name of a new taxon is not validly published unless the (holo)type is indicated. Without valid publication of the generic name, our species names were also not validly published under Art. 43.1.

Synchysidendron DiMich. & R. M. Bateman, **gen. nov.** – Type: *S. resinosum* DiMich. & R. M. Bateman.

Generic description in DiMichele & Bateman (1992: 607).

Synchysidendron resinosum DiMich. & R. M. Bateman, **sp. nov.** – Holotype: specimen No. 29138, Department of Plant Biology, Paleobotanical Collections, University of Illinois, Urbana, Illinois, U.S.A. Duplicate acetate peel sections of the holotype are housed in the Paleobotanical Type Collection, National Museum of Natural History, Smithsonian Institution, Washington, DC., U.S.A., as USNM No. 455481.

The species diagnosis, locality information and an illustration of the holotype appear in DiMichele & Bateman (1992: 607-609, fig. 1).

Synchysidendron dicentricum (C. J. Felix) DiMich. & R. M. Bateman, **comb. nov.** ≡ *Lepidodendron dicentricum* C. J. Felix in *Ann. Missouri Bot. Gard.* 39: 269-276, fig. 8, 10-16, 18-22. 1952. – Lectotype: (designated by DiMichele in *Palaeontographica*, Abt. B, *Palaeophytol.* 171: 133. 1979): specimen WCB 871; location of lectotype at time of designation was Paleobotanical Collections, University of Connecticut, Storrs, Connecticut, U.S.A. Duplicate acetate peel sections of lectotype are housed in the Paleobotanical Collections, Department of Plant Biology, University of Illinois, Urbana, Illinois, U.S.A.

An amended species diagnosis and synonymy appears in DiMichele & Bateman (1992: 609).

¹ Department of Paleobiology MRC-121, National Museum of Natural History, Smithsonian Institution, Washington, DC 20560, U.S.A.

² Departments of Earth and Plant Sciences, Oxford University, Parks Road, Oxford OX1 3PR, U.K.

The transfer of an element formerly in *Diaphorodendron* (DiMichele, 1985: 455) necessitates an emendation of the characters of *Diaphorodendron*. The amended description can be found in DiMichele & Bateman (1992: 609, 612).

Acknowledgments

We thank G. Zijlstra, University of Utrecht, for informing us of our nomenclatural oversight, and an anonymous reviewer for comments on the manuscript.

Literature cited

- DiMichele, W. A. 1985. *Diaphorodendron*, gen. nov., a segregate from *Lepidodendron* (Pennsylvanian age). *Syst. Bot.* 10: 453-458.
- & Bateman, R. M. 1992. *Diaphorodendraceae*, fam. nov. (Lycopsida: Carboniferous): systematics and evolutionary relationships of *Diaphorodendron* and *Synchysidendron*, gen. nov. *Amer. J. Bot.* 79: 605-617.