

## **Burghard Hein (1944–2014)**

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## Burghard Hein (1944–2014)

Dr Burghard Hein passed away at the age of 70 in Berlin-Charlottenburg on 7 April 2014 after a failed brain tumour surgery. He was a world authority on *Discomycetes*, especially *Dermateaceae*, a family of cup fungi. From 1974 until his retirement on 31 January 2007 he was a member of staff of the Botanic Garden and Botanical Museum Berlin-Dahlem (BGBM) and curated over a period of 33 years the mycological collections of that institution.

His first years, even his place of birth, were considerably influenced by World War II. His mother retreated from Berlin to the province of East Prussia in then air-raid-proof northeasternmost Germany, where her son Burghard saw the light of day on 2 January 1944 in the small district town of Preußisch Holland, some 20 km SE of the port of Elbing. With the advance of the Red Army they soon returned to their home in Berlin-Charlottenburg. The ruins of Berlin were unforgettable playgrounds during Burghard's boyhood and Charlottenburg was to stay his home for the rest of his life. His father held an appliance store, very successfully during the Wirtschaftswunder years, and enabled his son to be enrolled in biology, geography and politics at the Freie Universität (FU) Berlin from 1963 to 1969. Burghard's interest in fungi was raised on inspiring field trips by Professor Josef Poelt, who then held the Chair in Systematic Botany at FU Berlin and finally became his PhD supervisor. Burghard began his professional career in 1970 as Scientific Assistant at the Institute of Systematic Botany and Phytogeography of FU Berlin and had a prestigious start of publishing in the field of *Ascomycota* with the description of a new genus, *Bryodiscus*, together with his mentor Poelt and Emil "Ascus" Müller, another contemporary luminary and influential textbook author in the field of mycology (Hein & al. 1971). The main duty for Burghard was academic teaching in lectures, lab courses and field trips, principally on mycology but also on angiosperm basics which he continued until 1985, even after quitting university affiliation in 1973. On 1 January 1974 he joined the staff of the Botanic Garden and Botanical Museum Berlin-Dahlem,



Fig. 1. Dr Burghard Hein, aged 65, in the Tiergarten park of Berlin, May 2009 (photo courtesy L. Hein, Berlin).

first as Scientific Employee, then promoted to Curator on 7 November 1975 after gaining his doctorate on the revision of *Laetinaevia* and *Naevioideae* (Hein 1976, 1981a), and finally promoted to Senior Curator on 24 August 1993. Immediately after assuming curatorship he started a thorough reorganization of the mycological herbarium at B with its substantial pre-1943 holdings, in particular allocating previously separate collections in an alphabetical plus geographical order, in parallel documenting the inventory of extant exsiccata such as Kunze,

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*Fungi selecti*; Fuckel, *Fungi rhenani*; the collection of Bruno Hennig (c. 2500 items accessioned in 1974); Petrak, *Mycotheca generalis*; de Thümen (*Mycotheca universalis*; Plowright, *Fungi Britannici Exsiccati*; and of Klotzsch, Rabenhorst, Rehm, and others. In parallel, he was in charge of the public consulting service on mushrooms brought by private people for safe determination before consumption, regularly overcrowding his office in the months of September and October (cf. Hein 1987; Hein & al. 1993: 14–15). His research interests then focussed on *Hysteropezizella*, *Hysterostegiella* and *Pyrenopeziza* using electron-microscopic methods on a large scale to elucidate the taxonomic significance of paraphyse characters (Hein 1980a, 1980b, 1981b, 1982, 1983a, 1983b). In 1976 he joined BGBM's "Flora of Togo" project and collected c. 300 fungi, chiefly *Discomycetes*, in W Africa (Brunel & al. 1984: 19). In 1977, on the occasion of the 2nd International Mycological Congress in Tampa, Florida, he went to Ottawa and Cambridge, Massachusetts, for further herbarium studies on *Ascomycota*. In the 1980s his collecting activities led him to Scotland, Norway, Sweden and the Alps, the latter destination principally under the impact of his co-authors of 1971, Poelt and Müller and the expert community around them (cf. Hein & Scheuer 1985), while for the preparation of a global checklist of *Dermateaceae* he consulted many herbaria in Germany and abroad (viz. Beltsville, Graz, Hamburg, Ithaka, London, New York, Paris, Tübingen, Wien). He added new destinations to his mycological fieldwork with extensive collecting trips to Costa Rica and Venezuela in 1988 and 1990, and he presented a revision of the genus *Calloria* at the 1st International Workshop on Ascomycete Systematics in Paris, 1993. An applied project in Berlin was devoted to fungal indicator traits in environmental monitoring (Fischer & Hein 1990). Fieldwork became scarce after this period because the construction of an electronic database, aimed to cover all extant c. 5000 names in *Dermateaceae*, took up Burghard's spare time completely, including software development, for which at that time skills of IT professionals were not at hand. At last the project materialized on 1 July 1997 (Hein 1997) and is today a permanent constituent of BGBM's biodiversity information panel offered on-line to the scientific public. Health problems, chronic in part and affecting various organ functions, increased from now on, unfortunately stopping Burghard's taxonomic publishing and forcing him to go on half-time employment in 2003. Moreover, his BGBM-internal allocation to the public relations division in 1999, accepted by him with dampened enthusiasm, shifted his professional duties progressively towards advertising the institution's activities in newspapers and other public media (cf. Hein 1999a, b). When eventually he left active service on 31 January 2007 at the age of 63, bequeathing a well-curated fungus herbarium of c. 300 000 vouchers at B (cf. Gerhard & Hein 1979; Hein & Gerhard 1981; Hein

1984, 1988), alas with specialist curation wanting since then, he faced a retirement not only enriched with joyous travels together with his wife Liane but also with hospitals as intermittent places of habitation. Burghard, the father of two grown-up children from his first marriage, Katharina and Sebastian, died rather suddenly of cancer, shortly after returning from a relaxed stay on the island of Sylt in the German North Sea and after a longer disease, which then seemed almost overcome. Family, neighbours, schoolmates, fellow students and colleagues gathering for his funeral cortege at Waldfriedhof Heerstraße, Berlin-Charlottenburg, knew that they had lost not only an influential mycologist, but also a brilliant urban polymath, who lived a momentous cultural and intellectual life beyond botany, and a socially minded benefactor, who cared politically and for charity's sake for homeless persons and their unpaid helpers in metropolitan Berlin; in short, a self-effacing man of integrity and discretion much deserving thankful commemoration.

## Biofile

- Eckardt T. 1977: Dreijahresbericht über den Botanischen Garten und das Botanische Museum Berlin-Dahlem für die Jahre 1973, 1974 und 1975. – *Willdenowia* **8**: 159–199. [p. 168: Recruited Scientific Employee ("Wissenschaftlicher Angestellter") at BGBM, Department of Cryptogamic Collections, on 1 Jan 1974; p. 169: Appointed Curator ("Kustos") ibidem on 7 Nov 1975; p. 172–173: Responsible for mycological herbarium B and public consulting service on mushrooms at BGBM since 1 Jan 1974; p. 198: Expedition to S Norway 25 Aug–5 Sep 1975].
- Gerloff J. 1979: Zweijahresbericht über den Botanischen Garten und das Botanische Museum Berlin-Dahlem für die Jahre 1976 und 1977. – *Willdenowia* **9**: 215–235. [p. 215: Expedition Togo 27 Aug–25 Sep 1976; p. 222–223: Administrative and research duties at B; p. 232: Participation at 2nd International Mycological Congress Tampa, Florida, expedition to Gainesville, herbarium studies at Ottawa and Cambridge, Massachusetts, 19 Aug–8 Sep 1977; p. 234: Academic teaching at FU Berlin].
- Greuter W. & Potzalt E. 1982: Bericht über den Botanischen Garten und das Botanische Museum Berlin-Dahlem für die Jahre 1980 und 1981. – *Willdenowia* **12**: 311–328. [p. 320: Expedition to Scotland 18 Mar–2 Apr 1981; p. 322: Academic teaching at FU Berlin].
- Greuter W. & Lack H. W. 1985: Bericht über den Botanischen Garten und das Botanische Museum Berlin-Dahlem für die Jahre 1982 und 1983. – *Willdenowia* **14**: 525–547. [p. 537–539: Collecting in Davos (Switzerland) 27 Aug – 6 Sep 1982, Eschwege (Germany) 15–24 Oct 1982, Berchtesgaden (Germany) 24–28 Oct 1983; p. 540: Academic teaching at FU

- Berlin; p. 542: Lecturing on *Hysteropezizella* at Graz University (Austria)].
- Brunel J. F., Hiepko P. & Scholz H. 1984: Flore analytique du Togo. Phanérogames. – *Englera* **4**: 1–751. [p. 19: Collecting in Togo 1976 (c. 300 fungi)].
- Greuter W., Lack H. W. & Schultze-Motel W. 1989: Bericht über den Botanischen Garten und das Botanische Museum Berlin-Dahlem für die Jahre 1984–1987. – *Willdenowia* **18**: 609–641. [p. 625: Expeditions to Norway & Sweden 18–30 Aug 1986, Berchtesgaden (Germany) 12–17 Oct 1987; p. 626: Herbarium studies at Beltsville, Ithaca and New York (U.S.A.) 13 Nov–30 Dec 1987; p. 627: Academic teaching at FU Berlin; p. 628: Lecturing on *Hysteropezizella* at XIV International Botanical Congress Berlin 1987].
- Holmgren P. K., Holmgren N. H. & Barnett L. C. (ed.) 1990: Index herbariorum. Part I: the herbaria of the world. Ed. 8. – Bronx: New York Botanical Garden. [p. 133: staff member B (Fungi, especially Ascomycetes)].
- Greuter W. & Vogt R. 1991: Bericht über den Botanischen Garten und das Botanische Museum Berlin-Dahlem (BGBM) für die Jahre 1988–1990. – *Willdenowia* **21**: 5–33. [p. 18–20: Expeditions to Costa Rica & Venezuela 3 Nov–4 Dec 1988, Venezuela 5 Nov–10 Dec 1990].
- Brummitt R. K. & Powell C. E. (ed.) 1992: Authors of plant names. A list of authors of scientific names of plants, with recommended standard forms of their names, including abbreviations. – Kew: Royal Botanic Gardens. [p. 265: standardized nomenclatural author B. Hein].
- Greuter W. & Vogt R. 1993: Bericht über den Botanischen Garten und das Botanische Museum Berlin-Dahlem (BGBM) für das Jahr 1992. – *Willdenowia* **23**: 5–21. [p. 12–15: Basic contribution to mycological research at B, viz. inventorying historical holdings, identifying and publishing extant types, databasing *Dermateaceae*].
- Greuter W., Breitwieser I. & Vogt R. 1994: Bericht über den Botanischen Garten und das Botanische Museum Berlin-Dahlem (BGBM) für das Jahr 1993. – *Willdenowia* **24**: 5–31. [p. 8: Appointed Senior Curator (“Oberkustos”) at BGBM, Department of Research, on 24 Aug 1993; p. 26: Lecturing on genus *Calloria* at 1st International Workshop on Ascomycete Systematics Paris 1993].
- Hertel H. & Oberwinkler F. 1996: Josef Poelt 1924–1995. Ein Nachruf. – *Ber. Bayer. Bot. Ges.* **66/67**: 327–348. [p. 336: Co-authoring with Emil Müller and Josef Poelt; p. 346: PhD student of Professor Poelt].
- Greuter W. & Vogt R. 1998: Bericht über den Botanischen Garten und das Botanische Museum Berlin-Dahlem (BGBM) für das Jahr 1997. – *Willdenowia* **28**: 5–25. [p. 21: Publishes BGBM DERMBASE – Database of *Dermateaceae* names (Ascomycetes) on 1 Jul 1997].
- Greuter W. & Vogt R. 2000: Bericht über den Botanischen Garten und das Botanische Museum Berlin-Dahlem (BGBM) für das Jahr 1999. – *Willdenowia* **30**: 5–27. [p. 8: Relocated Senior Curator at BGBM, Department of Public Relations and Herbaria].
- Greuter W. & Vogt R. 2004: Bericht über den Botanischen Garten und das Botanische Museum Berlin-Dahlem (BGBM) für das Jahr 2003. – *Willdenowia* **34**: 5–38. [p. 8: Senior Curator at BGBM, Department of Public Relations and Herbaria, half-time].
- Greuter W. & Vogt R. 2008: Bericht über den Botanischen Garten und das Botanische Museum Berlin-Dahlem (BGBM) für das Jahr 2007. – *Willdenowia* **38**: 5–39. [p. 7: Relocated Senior Curator at BGBM, Department of Living and Herbarium Collections, retired on 31 Jan 2007].
- Lumbsch H. T. & Huhndorf S. M. (ed.) 2010: Myconet Volume 14. Part One. Outline of Ascomycota – 2009. Part Two. Notes on Ascomycete Systematics. Nos. 4751–5113. – *Fieldiana Life Earth Sci.* **1**: 1–64. [pp. 17 & 24: Accepted genera described by B. Hein].

#### Chronological list of publications by Burghard Hein

- Hein B., Müller E. & Poelt J. 1971: *Bryodiscus grimmiae*, ein neuer, moosbewohnender Discomycet aus Lappland. – *Svensk Bot. Tidskr.* **65**: 355–360.
- Hein B. 1976: Revision der Gattung *Laetinaevia* und Neuordnung der *Naevioideae*. – *Willdenowia Beih.* **9**: 1–136.
- Gerhard E. & Hein B. 1979: Die nomenklatorischen Typen der von Th. Nitschke beschriebenen Arten im Pilzherbar des Botanischen Museums Berlin-Dahlem. – *Willdenowia* **9**: 313–329.
- Hein B. 1980a: Morphologische Untersuchungen an *Belonium hystrix* (De Not.) von Höhnelt und *Hysteropezizella diminuens* (Karsten) Nannfeldt unter besonderer Berücksichtigung der Paraphysenmerkmale. – *Sydowia* **32**: 108–122.
- Hein B. 1980b: Rasterelektronenmikroskopische Untersuchungen an Haaren von *Hyaloscyphaceae*. – *Nova Hedwigia* **32**: 31–62.
- Hein B. 1981a: (557) Vorschlag zur Konservierung von *Laetinaevia* Nannf. (Ascomycetes, *Dermateaceae*). – *Taxon* **30**: 336–337.
- Hein B. 1981b: Zum Wert von Paraphysenaufagerungen für die Taxonomie des *Hysteropezizella*-Komplexes (*Dermateaceae*, *Mollisioideae*). – *Nova Hedwigia* **34**: 449–474.
- Hein B. & Gerhardt E. 1981: Die nomenklatorischen Typen zu Kirschsteins Namen von Gattungen, Arten und subspezifischen Taxa im Pilzherbar des Botanischen Museums Berlin-Dahlem. – *Willdenowia* **11**: 123–163.
- Hein B. 1982: Zum Wert von Zellmaßen für die System-

- atik des *Hysteropezizella*-Komplexes (*Ascomycetes*, *Dermateaceae*). – *Willdenowia* **12**: 293–302.
- Hein B. 1983a: Die Gattung *Hysterostegiella* v. Höhnelt (*Ascomycetes*, *Dermateaceae*). – *Nova Hedwigia* **38**: 669–702.
- Hein B. 1983b: Ein erweitertes Konzept für die Ascomycetengattung *Diplonaevia* Sacc. (= *Merostictis* Clem. p.p.). – *Sydowia* **36**: 78–104.
- Hein B. 1984: Originalmaterial und Hinweise zu den von G. Otth beschriebenen Fungi-Arten und subspezifischen Taxa im Herbar des Botanischen Museums Berlin-Dahlem. – *Willdenowia* **14**: 413–416.
- Hein B. & Scheuer Ch. 1985: Neue Dermateaceen (*Ascomycetes*) auf Gramineen, Cyperaceen und Juncaceen aus den Alpen. – *Sydowia* **38**: 125–135.
- Hein B. 1987: Pilzberatung. – P. 126 in: Museum. Botanischer Garten und Botanisches Museum Berlin-Dahlem. – München: Magazinpresse Verlag & Westermann's.
- Hein B. 1988: Liste der Arten und infraspezifischen Taxa von P. Hennings mit Angabe der Typen in den Herbarien des Botanischen Museums Berlin-Dahlem und des Instituts für Systematische Botanik in Hamburg. – *Englera* **10**: 1–374.
- Fischer C. & Hein B. 1990: Blei und Cadmium in Pilzen aus Westberlin. – *Z. Mykol.* **56**: 159–166.
- Hein B., Scholz H., Sipman H. & Gerhardt E. 1993: Forschungsbericht Pilze und Flechten am BGBM: Biodiversitätsstudien vom Wannsee bis zur Hansabucht [in: Greuter W. & Vogt R., Bericht über den Botanischen Garten und das Botanische Museum Berlin-Dahlem (BGBM) für das Jahr 1992]. – *Willdenowia* **23**: 12–15.
- Hein B. 1997: BGBM-DERMBASE. Database of *Dermateaceae* names (*Ascomycetes*). – Published at <http://www.bgbm.org/de/node/174>
- Hein B. 1999a: Pinselschimmel (*Penicillium*). – P. 20 in: Lack H. W., Mory B. & Vogt R. (ed.), Botanisches Museum Berlin (Prestel-Museumsführer). – München, London, New York: Prestel.
- Hein B. 1999b: Hinter den Kulissen des Botanischen Gartens. – Pp. 109–113 in: Heimatverein für den Bezirk Zehlendorf (1886) e.V. (ed.), Jahrbuch 2000 für Zehlendorf. Altes und Neues von Menschen, Landschaften und Bauwerken. – Berlin: Peterburs.

## Taxa new to science published by Burghard Hein

### Genera

- Bryodiscus* B. Hein, E. Müll. & Poelt 1971  
*Naevia* B. Hein 1976  
*Naeviopsis* B. Hein 1976

### Species

- Bryodiscus grimmiae* B. Hein, E. Müll. & Poelt 1971  
*Diplonaevia davalliana* B. Hein & Scheuer 1985  
*Diplonaevia immersa* B. Hein & Scheuer 1985  
*Diplonaevia muellerii* B. Hein & Scheuer 1985  
*Diplonaevia septospora* B. Hein & Scheuer 1985  
*Hysteropeziza pubescens* B. Hein & Scheuer 1985  
*Hysteropeziza pusilla* B. Hein & Scheuer 1985  
*Laetinaevia longispora* B. Hein 1976  
*Naevia marginata* B. Hein 1976  
*Naevia ribis* B. Hein 1976  
*Naeviopsis montana* B. Hein 1976  
*Naeviopsis rhodiolae* B. Hein 1976  
*Naeviopsis salicis* B. Hein 1976  
*Naeviopsis simulans* B. Hein 1976  
*Naeviopsis tornensis* B. Hein 1976  
*Scutomollisia clavata* B. Hein & Scheuer 1985  
*Scutomollisia lanceolata* B. Hein & Scheuer 1985  
*Scutomollisia microspora* B. Hein & Scheuer 1985

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