



Stanovisko hodnotící komise k návrhu na jmenování profesorem

Masarykova univerzita

Fakulta

Obor řízení

Uchazeč

Pracoviště uchazeče

Složení komise

Předseda

Členové

Přírodovědecká fakulta

Fyzická geografie

Ulf Büntgen, PhD

Přírodovědecká fakulta, Masarykova univerzita

prof. RNDr. Petr Dobrovolný, CSc.

Přírodovědecká fakulta, Masarykova univerzita

prof. Ing. Zdeněk Žalud, Ph.D.

Mendelova univerzita v Brně

prof. RNDr. Jozef Minár, CSc.

PřF UK Bratislava

Prof. Dr. Stefan Brönnimann

Univerzita Bern

prof. RNDr. Bohumír Janský, CSc.

PřF UK V Praze

Hodnocení vědecké / umělecké kvalifikace uchazeče

From 1999 to 2003, Ulf Büntgen studied Geography, Geology and Cartography at the University of Bonn, Germany, where he obtained a Diploma with the highest degree. Afterwards, he moved to Switzerland and started a Ph.D., which he successfully defended again with the highest degree at the Department of Geography, University of Bern in 2006. In 2011, Ulf Büntgen received his Habilitation in the fields of Paleoclimatology and Paleoecology from the University of Bern, Switzerland.

Although just 42 years old, Ulf Büntgen's academic carrier and scientific reputation are outstanding. In August 2003 he became a Scientific Research Assistant at the Swiss Federal Research Institute WSL in Birmensdorf, Switzerland. In this regard, it should be noted that WSL is within the ETH-domain and, at that time, hosted the world's most influential tree-ring group and laboratory. He continued his carrier at WSL, where he was the Head of the Dendroecology Group from 2013-2016, and where he is still part-time employed as a Senior Scientist. Since January 2017, Ulf Büntgen holds the established Chair of Environmental Systems Analysis at the Department of Geography, University of Cambridge, UK.

It should be further noted that Ulf Büntgen was a Guest Professor at the University of Madrid, Spain, in 2010. Since 2012, he closely cooperates with Department of Geography, Masaryk University. He became officially affiliated with the Department as a Research Associate in 2016. Moreover, Ulf Büntgen is a scientific member of the Global Change Research Institute CAS in Brno.

Within the broad field of Physical Geography, his main research interests are devoted to dendrochronology, high-resolution paleoclimatology, climate variability, as well as vegetation and landscape dynamics under the global change umbrella. This being said, Ulf Büntgen also conducts timely research in many other fields, including archaeology, mycology and history.

His main research questions are: What are the causes and consequences of past and ongoing changes in diverse, though often intertwined environmental systems, including timely aspects of wildlife biology, forest- and myco-ecology, (paleo)climatology and human history, across a wide range of spatial and temporal scales; and how can different tree-ring archives, parameters and techniques be optimised to provide scientific answers to such and related inter- and cross-disciplinary research questions of societal relevance?

So far (November 2018), he published 283 publications (of which 212 are ISI listed, including Science and Nature), h-index of 50/48/42 (Google Scholar / Research Gate / Web of Science). His total number of citations in Google Scholar and Research Gate is 9429 and 8115, respectively. His total number of citations in WoS is 6144 (and 4996 without self-citations).

Between 2014 and 2016, Ulf Büntgen was the head of the PAGES (Past Global Changes) working group: Euro-Med2k - Climate of Europe and the Mediterranean of the last 2 millennia.

Ulf Büntgen was and is a principal investigator of many scientific projects, mostly founded from Switzerland and the EU, but also from the US (Columbia University). In the Czech Republic, he is currently the PI of the Czech Science Foundation project - 2000 years of PALEO-climatology and Ecology from Oak stable isotopes in the Czech Republic (PALEO - that is successfully operating since 2017).

Conclusion: The applicant's scholarly capabilities **meet** the requirements expected of applicants participating in a professor appointment procedure in the field of Physical geography.

Závěr: Vědecká / umělecká kvalifikace uchazeče **odpovídá** požadavkům standardně kladeným na uchazeče v rámci řízení na jmenování profesorem v oboru Fyzická geografie.



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Hodnocení pedagogické způsobilosti uchazeče

Ulf Büntgen has pedagogical experience with two regular courses in Physical geography (Z8338 Quaternary landscape) and Multidisciplinary studies study-programs (ZX602 Reconstruction of the past climate and environmental changes from different proxy data) at Masaryk University since 2016. Since he is a Full Professor at the Department of Geography in Cambridge (Professor of Environmental Systems Analysis), he is intensively involved in the departmental teaching agenda, including several courses in Biogeography and Quaternary Research, as well as laboratory (dendrochronology) and fieldwork (Swiss Lötschental) classes.

Besides regular teaching he also teaches a Master course at the University of Bern and the OCCR (Methods of Climate Reconstruction, since 2016, together with Prof. Jürg Luterbacher). Furthermore, Ulf Büntgen frequently teaches at national and international summer schools and field weeks; a well-established platform within the worldwide tree-ring community.

He has been so far supervisor of 4 bachelor, 12 master and 10 doctoral students. Already 7 students successfully defended their Ph.D. thesis under Ulf Büntgen's supervision. His Ph.D. graduates successfully develop their scientific career at Universities of Freiburg, Bern and Mainz.

As a co/author he prepared two text-book chapters (one in Elsevier). Moreover, he published several papers with strong methodological aspects (e.g. with prof. Schweingruber). Additionally, he has prepared 17 popular science texts.

Ulf Büntgen gives invited and solicited talks and lectures all over the world, including the University of Princeton and Columbia University in the USA, the Universities in Beijing and Urumqi in China, the Federal University of Siberia and the RAS in Russia, the University of Oslo and the CEES in Norway, and many others.

Conclusion: The applicant's pedagogical capabilities *meet* the requirements expected of applicants participating in a professor appointment procedure in the field of Physical geography.

Závěr: Pedagogická způsobilost uchazeče **odpovídá** požadavkům standardně kladeným na uchazeče v rámci řízení na jmenování profesorem v oboru Fyzická geografie.

Hodnocení uchazeče jako význačné a uznávané vědecké / umělecké osobnosti v daném oboru

Ulf Büntgen initiated and coordinated numerous large international projects at the interface of different disciplines of the natural sciences and even with the humanities. Under his leadership, the PAGES 2K initiative grew to become a key player in high-resolution palaeoclimatological research. (Prof. Amin, Cambridge Univ.).

He organized several expeditions and fieldwork campaigns, such as to the Spanish and French Pyrenees (2004, 2008, 2013), Coastal east Greenland (2011), the Lena River and Delta (2013), the Russian Altai-Sayan Mountain Range (2016), the Indigirka River and Delta (2016).

Ulf Büntgen is an Associated Editor of Dendrochronologia journal. His remarkable academic achievements, including scholarly publications, scientific innovation, research network and intellectual vision have been recognized and awarded by the University of Cambridge, where Ulf Büntgen is among the youngest Full Professors since January 2017. His appointment came together with a mega-grant for establishing Cambridge's first tree-ring laboratory and group. His numerous new insights go beyond the margins of disciplinary thinking and he is considered one of the most important tree-ring researches world-wide (Prof. Stenseth, Oslo Univ.).

Conclusion: The applicant *is* a respected and recognized scholarly figure in his field. The applicant *has* made a significant contribution to the development of his field. The applicant *constitutes* a leading figure in his field of scholarship or research.

Závěr: Uchazeč **je** význačnou a uznávanou vědeckou osobností v daném oboru. Významně se **zasluhuje** o profilování a rozvoj tohoto oboru. **Představuje** jednu z vůdčích osobností vědecké školy nebo výzkumného týmu v oboru.



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Výsledek tajného hlasování komise

Hlasování se uskutečnilo: prezenčně
 elektronicky

Počet členů komise		5
Počet odevzdaných hlasů		5
z toho	kladných	5
	záporných	0

Návrh komise

Na základě výsledku tajného hlasování následujícího po zhodnocení vědecké / umělecké kvalifikace, pedagogické způsobilosti a a profilu uchazeče jako významné a uznávané vědecké osobnosti předkládá komise Vědecké radě Přírodovědecké fakulty Masarykovy univerzity návrh

jmenovat uchazeče profesorem v oboru Fyzická geografie na zastavení řízení.

V Brně dne 15.11.2018

prof. RNDr. Petr Dobrovolný