NOTES ON CONTRIBUTORS

Zoya Bessudnova is a senior researcher at the Vernadsky State Geological Museum, Moscow. Her interests are in the history of geology (mainly 19th C.) and museum collections. She has published *Geological Research at the Moscow University Natural History Museum 1759–1930* (2002) and many papers on the history of museum collections. She is co-author of *Native Active and Honorary Members of the Russian Academy of Sciences, 18th–20th Centuries: Geology and Mining Sciences* (2000); *Native Corresponding Members of the Russian Academy of Sciences, 18th–20th Century: Geology and Mining Sciences* (2007); *Foreign Members of the Russian Academy of Sciences, 18th–21st Century: Geology and Mining Science* (e-book, 2012). She is a member of INHIGEO and a Fellow of the Moscow Society of Naturalists at Moscow University and the Russian Mineralogical Society.

Kennard B. Bork is Alumni Professor of Geology at Denison University. His training was in paleontology but his research interests also turned to the history of geology in 1973. Two sabbaticals in Paris allowed him to consider Francophone contributions to evolving geosciences in the eighteenth and nineteenth centuries. The interactions of Alexandre Brongniart and the American mineralogist Parker Cleveland became a research interest, as reported in *Earth Sciences History* and at meetings of the Geological of America. His book *Cracking Rocks and Defending Democracy* considered the life and times of Kirtley F. Mather, Harvard geologist and political activist. Professor Bork is a former Secretary General of INHIGEO.

Ana Carneiro is a researcher at the Inter-university Centre for the History of Science and Technology and Associate Professor in the Department of Applied Social Sciences, Faculty of Science and Technology, New University of Lisbon. She has published on the history of nineteenth-century science in Portugal with particular emphasis on chemistry and geology. She is chief editor of the on-line journal *HoST – History of Science and Technology* (http://johost.eu/).

Marianne Klemun is Professor in the Department of Modern History at the University of Vienna and a member of its History of Science working group She was Vice Dean of the Cultural-Historical Faculty of the University of Vienna from 2006 to 2012). Her research interests are the history of natural history in its cultural and political dimensions. Besides many books and articles she has recently been co-editor (with Ana Carneiro) of Volume 53 of *Centaurus*, dedicated to 'Seeing and measuring, constructing and judging: instruments in the history of the earth sciences' (2011), and guest editor of Volume 5 of the online journal *HoST (Journal of History of Science and Technology*), with the theme 'Moved natural objects: spaces in between' (2012).

Léo F. Laporte is Professor Emeritus in the Earth Sciences Department, University California at Santa Cruz. His biography of George G. Simpson was published in 2000 by Columbia University Press, New York.

Teresa Salomé Mota is a post-doctoral researcher at the Interuniversity Centre for the History of Science and Technology in Lisbon. She has a PhD in History and Philosophy of Science with a thesis on the Portuguese Geological Survey during the twentieth century. Currently, she is working on the emergence and consolidation of geology in Portugal during the nineteenth and twentieth centuries.

Johannes Mattes is a PhD student in the Department of History at the University of Vienna, Austria. He received an MA in history and German literature in 2009, followed by a diploma in university didactics and blended learning. He has gained experience in speleological fieldwork, especially cave mapping, and since 2009 he has been employed as a high school teacher in Vienna. He has published two books—*Festrede und Festspiel als Formen kollektiver* *Repräsentation* (Peter Lang 2011) and *Alexander von Mörk: Maler, Höhlenforscher, Literat* (Tandem 2011)—and several papers on the history of speleology. In 2010 he became secretary of the Austrian Speleological Association and co-editor of one of the leading journals in speleology *Die Höhle: Zeitschrift für Karst- und Höhlenkunde*.

Wolf Mayer is a graduate of the University of Auckland, New Zealand, and the University of New England, Australia. He taught geology at both the University of Canberra and the Australian National University and is currently a Visiting Fellow at the latter institution. In recent years, his main interests have been in the history of geology, with particular emphasis on the early geological exploration of Australia, first by visiting naturalists on voyages of discovery, and later by resident geologists.

Stephen M. Rowland is Professor of Geology at the University of Nevada, Las Vegas. He received a PhD in Earth Sciences from the University of California, Santa Cruz, where he studied the paleoecology of Lower Cambrian reefs with the paleontologist and historian of geology Léo F. Laporte. He is a member of the International Commission on the History of the Geological Sciences (INHIGEO) and a Fellow of the Geological Society of America.

Kenneth L. Taylor is professor emeritus of the history of science, University of Oklahoma. He is currently President of INHIGEO.

GUIDELINES FOR AUTHORS (abbreviated)

- 1. Contact with the Editor or a Member of the Editorial Board prior to submission is welcomed.
- 2. Articles should be submitted to the Editor at his home address as a Word (.doc) document, preferably by email attachment (or, if that is not possible, on a CD).
- 3. The text should be prepared in Times New Roman (10pt), but using 9pt for indented quotations. The title should be centered and in bold, 12pt. Please do not use auto-numbering, auto-'bulletpoints', or any form of auto-formatting other than for automated footnoting and 'smart' quotes. The text should be single spaced and justified left and right.
- 4. Figures are welcome. Digital submission is required, on a CD for large files or by email attachment if transmission is possible. Half-tones should be scanned at 600 dpi and black and white documents at 1,200 dpi. The use of colour is possible, but authors will be charged for this. A cost estimate will be provided in advance for each case.
- 5. Tables and figures should be sent in files separate from the main text.
- 6. Figure numbers and captions (italicised) should be situated where you would like them to be printed in the final version, but the figures themselves should be sent separately (see Point 5). All figures or tables must be referred to in the body of the text (for example, 'see Figure 10'). Please write 'Figure', not 'Fig.'.
- 7. The article should be divided into numbered sections (with headings centered, bold, upper case). Subsections (numbered) should be headed in italics, not bold, lower case, and left-justified.
- 8. The article should be followed by sections headed **ACKNOWLEDGEMENTS** (where appropriate), **ARCHIVES** (where required) and **REFERENCES**.
- 9. Referencing is to be done by means of the name/date system.
- 10. Footnotes (8pt) may be used where additional text or short discussion is required, or where archival materials are cited. They are to be indicated by a superscript numeral in the text placed **after** the punctuation mark. The terms *'ibid.'* and *'op. cit.'* are not generally used in *Earth Sciences History*.
- 11. Short quotations within a paragraph should be indicated by the use of **double** inverted commas (with a reference indicating the page numbers). Any longer quotation (say three lines or more) should be separated from the rest of the paragraph by line spaces before and after the quotation and

without inverted commas, but referenced. The quotation should be in 9pt and indented left but not right.

- 12. The full names of historical figures should be given in complete form on the first mention of a person (not initials), with birth and death dates specified, where possible. **Dates should be separated by an en-dash, not by a hyphen**: *e.g.*, 1857–1933, not 1857-1933. Page numbers in references should likewise be separated by n-dashes. For the **first mention** of a person, provide his or her given and family names. **Thereafter**, use the family name only, or in rare cases just the given name.
- 13. The maximum length of an article should normally be 15,000 words, plus illustrations. Authors wishing to offer longer articles should consult the Editor prior to submission.
- 14. Authors should supply a paragraph about themselves for the Notes on Contributors section.
- 15. *Earth Sciences History* requests voluntary page contributions from authors in the amount of \$15 US per printed page, but acceptance of manuscripts and publication is not contingent on payment of page charges.
- 16. Offprints may be ordered if required. Costs will be supplied on request.

Format for References

Books

- Bullen, K. E. and Bolt, Bruce A. 1985. Introduction to the Theory of Seismology. 4th edn. Cambridge: Cambridge University Press.
- Good, Gregory A. (ed.). 1998. Sciences of the Earth: An Encyclopedia of Events, People, and Phenomena. 2 vols. New York and London: Garland Publishing Inc.
- Suess, Eduard, 1904–1924. *The Face of the Earth (Das Antliz der Erde)*, translated by Hertha B. C. Sollas. 5 vols. Oxford: Clarendon Press.

Articles in journals

Jago, J. B., Pharaoh, M. D. and Wilson-Roberts, C. L. 2005. Douglas Mawson's first major geological expedition: the New Hebrides, 1903. *Earth Sciences History* 24: 93–111.

Articles or chapters in books

Branagan, D. F. 1998. Geological periodization. In: Sciences of the Earth: An Encyclopedia of Events, People, and Phenomena, edited by Gregory A. Good, Vol. 2, 306–314. New York and London: Garland Publishing Inc.

Unpublished thesis or dissertation

Wolter, John A. 1975. The Emerging Discipline of Cartography. PhD dissertation, University of Minnesota.

No abbreviations should be made in the reference list. Intending authors should consult the full set of guidelines at www.historyearthswcience.org and also look at examples of papers in the present issue. Papers submitted to the journal will not be refereed unless and until they comply with the Guidelines.

Where necessary, authors must seek permission to reproduce copyright material.

Downloaded from https://prime-pdf-watermark.prime-prod.pubfactory.com/ at 2025-07-17 via free access

JOIN THE HISTORY OF EARTH SCIENCES SOCIETY (HESS) AND RECEIVE *EARTH SCIENCES HISTORY*

(two issues per year)

Joining HESS by submitting payment online is the preferred method, for both print and/or online access, for US and non-US members, and for both individuals and institutions. It is a two-step process: first, register at Metapress (our online and payment processing host); second, select the type of *ESH* subscription you want (see 'Dues rates' below). Instructions for joining online are given at the HESS website membership page:

http://historyearthscience.org/membership.html

Email *membership@historyearthscience.org* for instructions if you find it more convenient to pay by mailing a check or money order. We will send you a membership form to return to the Treasurer along with your payment (in US dollars, made out to 'HESS', by a check drawn on a US bank or by an International Money Order). In your email, please send us your postal address and indicate the type of subscription you want (see below) so that we can set up your account.

If you encounter any problems or have any questions please contact: *membership@historyearthscience.org*

Dues rates for 2013 (Vol. 32)

Rates (all in US\$) are the same for US and non-US addresses. Memberships are for the calendar year.

Individuals	Institutions
\$50 – print subscription	\$80 – print subscription
\$50 – online subscription*	\$80 – online subscription*
\$65 – print + online subscription*	\$100 - print + online subscription*
\$25 – students (online only)**	

- * Online access includes full back issue access (back to Vol. 1) for the duration of your subscription (i.e., for 2013 online subscribers, you will have full archival access; if your subscription lapses in 2014, you will only maintain access to Vol. 32 (2013). You must provide an email address for online access.
- ** Students must provide verification of student status. Students wanting *ESH* in print rather than online must pay the full membership rate (\$50).

HESS OFFICERS

- President: Sandra Herbert (2013, 2014), Professor Emerita, Department of History, University of Maryland, Baltimore MD 21250, USA; president@historyearthscience.org
- Past President: Greg Good (2011, 2012), Center for the History of Physics, American Institute of Physics, One Physics Ellipse, College Park, MD 20740, USA
- President-elect: Ana Carneiro (for 2015, 2016), Professor in the Faculty of Sciences and Technology, New University of Lisbon, Portugal; amoc@sapo.pt
- Secretary and Web Manager: Warren Dym (2011–2013); secretary@historyearthscience.org
- Treasurer: Greg Good (2013–2015), Center for the History of Physics, American Institute of Physics, One Physics Ellipse, College Park, MD 20740, USA; treasurer@historyearthscience.org

Program Officer: Paul Lucier (2012, 2013); programofficer@historyearthscience.org

Councilors:

- Jeremy Vetter (2012, 2013), Department of History, University of Arizona, Tucson, AZ, USA; jvetter@email.arizona.edu
- Andrea Westermann (2012, 2013), Department of History, University of Zurich; recently visiting scholar at the Max Planck Institute for the History of Science, Germany; andrea.westermann@hist.uzh.ch
- Paul D. Brinkman (2013, 2014), Assistant Director of the Paleontology and Geology Research Laboratory, North Carolina Museum of Natural Sciences, Raleigh, NC, USA; paul.brinkman@ncdenr.gov
- Claudine Cohen (2013, 2014), Professor in the Practical School for Advanced Studies and Associate Professor in the School for Advanced Studies in the Social Sciences, Paris, France;claudine.cohen@ehess.fr
- Editor, *Earth Sciences History*: David R. Oldroyd (2011–2013), Honorary Professor, School of Humanities, The University of New South Wales, Sydney, NSW 2052, Australia

Mailing address: Apt. 805, 36–42 Stanley Street, St Ives, Sydney, NSW 2075, Australia; esh@historyearthscience.org

Nominating Committee:

Roger Turner (2011-2013); Chair, 2013; Roger_d_turner@hotmail.com

Teresa Salomé Alves da Mota (2013, 2014); salome.teresa@gmail.com

Michele Aldrich (2013, 2014, 2015); maldrich@smith.edu

EARTH SCIENCES HISTORY

Volume 32, No. 1, 2013

CONTENTS

Letter from the President, note from the Secretary, note from the Treasurer, and Editor's Introduction	ii
Sandra Herbert, Warren Dym, and David Oldroyd	
A novice's biography of George Gaylord Simpson Léo Laporte	1
Alexandre Brongniart (1770–1847) shows that a 'facts first' scientific approach can lead to large-scale conclusions Kennard Bork	9
'A time for engineers and a time for geologists': scientific lives and different pathways in the history of Portuguese geology Teresa Mota and Ana Carneiro	23
A peculiarly personal encyclopedia: what Desmarest's <i>Géographie-physique</i> tells us about his life and work Kenneth Taylor	39
William Noel Benson (1885–1957): insights into the life and work of an eminent geologist Wolf Mayer	55
The life and geological writings of the 'father of Russian science': Mikhail Lomonosov Stephen Rowland	86
Grigory (Gotthelf) Fischer von Waldheim (1771–1853): author of the first scientific works on Russian geology and palæontology Zoya Bessudnova	102
'Living fossil'—'fossilized life'? Reflections on biography in the history of science Marianne Klemun	121
Alexander von Mörk and Poldi Fuhrich: the conception of heroes in cave exploration in the early twentieth century Johannes Mattes	132
Book Review	150
Notes on Contributors	152
Guidelines for Authors	153
Join the History of Earth Sciences Society (HESS)	155