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EDUCATION

- 2003 **Ph.D.**, Geological Sciences, University of Southern California, Los Angeles, CA.
1999 **M.S.**, Geological Sciences, University of Southern California, Los Angeles, CA.
1997 **B.A.**, Geology, The College of Wooster, Wooster, OH. Phi Beta Kappa, Sigma Xi, Departmental and Senior Thesis Honors, The Robert W. McDowell Prize in Geology.

ADDITIONAL EDUCATION

- 2020 **Center for Strategic and International Studies**, Defense Enterprise Course.
2018 **Certificate**, Project Management, Georgetown University.
2002 **University of Washington**, Friday Harbor Laboratories Summer Marine Invertebrate Zoology Course.
1997 **Louisiana State University**, Summer Field Geology Course.

PROFESSIONAL EXPERIENCE

- 2021-Present **Chief, Climate and Hydrology Plans**, Headquarters U.S. Air Force, Directorate of Weather (A3WX), U.S. Department of Defense, Pentagon.
2019-2021 **Climate and Water Resilience Specialist**, AAAS Science & Technology Policy Fellow, Headquarters U.S. Army, Office of the Assistant Secretary of the Army for Installations, Energy and Environment [OASA(IE&E)], U.S. Department of Defense, Pentagon.
2020-Present **Adjunct Professor**, Department of Geosciences, University of Wisconsin-Milwaukee.
2018-2020 **Professor**, Department of Geosciences, University of Wisconsin-Milwaukee.
2017-2018 **Department Chair**, Department of Geosciences, University of Wisconsin-Milwaukee.
2016-2017 **Graduate Program Director**, Department of Geosciences, University of Wisconsin-Milwaukee.
2016-2017 **Associate Department Chair**, Department of Geosciences, University of Wisconsin-Milwaukee.
2013 **Interim Department Chair**, Department of Geosciences, University of Wisconsin-Milwaukee, January–March.
2012-2021 **Adjunct Curator**, Geology Department, Milwaukee Public Museum.

- 2011-2013 **Graduate Program Director**, Department of Geosciences, University of Wisconsin-Milwaukee.
- 2011-2013 **Associate Department Chair**, Department of Geosciences, University of Wisconsin-Milwaukee.
- 2010-2018 **Associate Professor**, Department of Geosciences, University of Wisconsin-Milwaukee.
- 2004-2020 **Curator**, Greene Geological Museum, University of Wisconsin-Milwaukee.
- 2004-2010 **Assistant Professor**, Department of Geosciences, University of Wisconsin-Milwaukee.
- 2003-2004 **Postdoctoral Research Fellow**, Department of Earth Sciences, University of Southern California.
- 2002 **Research Assistant**, Invertebrate Paleontology Department, Natural History Museum of Los Angeles County.

EDITORIAL EXPERIENCE

- 2017-2019 **Editorial Board**, *Heliyon*.
- 2014-2019 **Board of Directors**, Coquina Press.
- 2014-2019 **Commentaries Editor**, *Palaeontologia Electronica*.
- 2008 **Guest Editor**, *Palaeogeography*, *Palaeoclimatology*, *Palaeoecology*.
- 2006-2019 **Associate Editor**, *Palaeontologia Electronica*.

HONORS AND AWARDS

- 2021 U.S. Army Public Service Commendation Medal.
- 2020 Fellow, Geological Society of America.
- 2013 UWM Authors Recognition Ceremony.
- 2011 Full Member, Sigma Xi.
- 2005 Co-Author on a *Discover* magazine Top 100 Science Story of 2004.
- 2002 UW Friday Harbor Laboratory Scholarship.
- 2001-2002 USC Dissertation Fellowship.
- 1999-2001 USC John Stauffer Fellowship.
- 1999 USC Wrigley Institute for Environmental Studies Scholarship.
- 1999 Sigma Xi Grant-In-Aid.
- 1999 Best Oral Presentation - California Paleontology Conference.
- 1998 & 2002 USC Earth Sciences Graduate Student Research Grant.
- 1998 & 2002 Paleontological Society Grant-In-Aid.
- 1998 Geological Society of America Research Grant.
- 1997-1999 Outstanding TA Award for USC Earth Sciences.
- 1997 & 1999 USC Keck Fellowship.
- 1997 Top Student in Louisiana State University Field Geology Course.
- 1997 Graduated Wooster with Departmental and Senior Thesis Honors.
- 1997 Phi Beta Kappa.
- 1997 Sigma Xi.
- 1997 Wooster Robert W. McDowell Prize in Geology.

- 1997 Co-Captain, Wooster Track and Field.
 1996 & 1997 All-Conference, Wooster Track and Field.
 1996 Wooster Karl Ver Steeg Prize in Geology and Geography.
 1994-1996 Wooster Academic/Athletic Achievement Award.
 1993-1996 Wooster Dean's List.
 1993-1997 4.0 GPA in Wooster Geology Major.

EXTERNAL GRANT FUNDING

- 2017-2019 *Digitizing the history of the Ordovician: From biodiversification to extinction in three collections.* Institute of Museum and Library Services, Museums for America–Collections Stewardship. UWM Award ID: MIL112708. Role: Co-PI (w/Patricia C. Burke, Milwaukee Public Museum, and Paul S. Mayer, The Field Museum). \$362,887. UWM Portion: \$143,798.
- 2016-2017 *Exploring the potential for the 1.1 Ga Copper Harbor Conglomerate to yield information on terrestrial environments during the rise of the eukaryotes.* National Science Foundation, Early Concept Grants for Exploratory Research (EAGER). Grant Number: NSF-LTG-1542213. Role: Key Personnel (PI Aradhna Tripathi, UCLA). \$49,999.
- 2016-2017 *Understanding the early evolution of multicellular life: A new exceptionally preserved Burgess Shale-type biota from the Precambrian of western Mongolia.* NASA Wisconsin Space Grant Consortium. UWM Award ID: MIL111505. Role: PI. \$4,875.
- 2015-2017 *From Snowball Earth to the Cambrian radiation: Studying the linkage between environmental fluctuation and biotic evolution.* Japan Society for the Promotion of Science – Grants-in-Aid for Scientific Research. Grant Number: 15H05214. Role: Key Personnel (PI Tatsuo Oji, Nagoya University). \$65,342.
- 2014-2015 *Testing the biogenicity of stromatolites in a Mars analog paleoenvironment.* NASA Wisconsin Space Grant Consortium. UWM Award ID: MIL109159. Role: PI. \$4,999.

INTERNAL GRANT FUNDING

- 2017 *Curation and digitization of the Greene Geological Museum fossil collection.* UWM Office of Undergraduate Research SURF Award. Role: PI. \$2,160.
- 2016-2017 *Understanding the early evolution of multicellular life: A new exceptionally preserved Burgess Shale-type biota from the Ediacaran of western Mongolia.* UWM Research and Creative Activities Support (RACAS) Award. Role: PI. \$14,948.
- 2015 *Paleoecology of the middle Cambrian eocrinoid echinoderm *Gogia spiralis*: Shifting substrate adaptations through ontogeny.* UWM Office of Undergraduate Research SURF Award. Role: PI. \$2,000.

- 2013 *Putative microbial structures in fluvial siliciclastic facies of the Mesoproterozoic (1.09 Ga) Copper Harbor Conglomerate, Upper Peninsula of Michigan, USA.* UWM Office of Undergraduate Research SURF Award. Role: PI. \$2,000.
- 2012 *Testing the biogenicity of suspect microbial structures in the Precambrian Copper Harbor Formation, Upper Peninsula of Michigan.* UWM Office of Undergraduate Research SURF Award. Role: PI. \$2,000.
- 2009-2010 *Sensory evolution during the Cambrian radiation.* UWM Research Growth Initiative. Role: PI. \$60,726.
- 2006-2007 *Shedding light on the Cambrian Explosion with Burgess Shale-type deposits: Community paleoecology of the Early Cambrian Chengjiang biota of southwest China.* UWM Research Growth Initiative. Role: PI. \$63,324.
- 2005-2006 *Paleoecology and paleoenvironmental setting of the Early Cambrian Chengjiang fauna of China: An early view of the Cambrian explosion.* UWM Graduate School Research Committee Award. Role: PI. \$14,001.

GRADUATE STUDENT ADVISEES

- David R. Cordie**, Ph.D. 2019, Dissertation: Evolution, paleoecology, and extinction of framework-building metazoans in early Cambrian reef ecosystems from the western USA and Mongolia.
- Keenan J. Hassell**, M.S. 2018, Thesis: Paleobiology and taphonomy of exceptionally preserved putative macroalgae from the Ediacaran Zuun-Arts Biota, Zavkhan Province, Mongolia.
- Jonah M. Novek**, M.S. 2015, Thesis: Paleoredox geochemistry and bioturbation levels of the exceptionally preserved early Cambrian Indian Springs biota, Poleta Formation, Nevada, USA.
- Nicholas D. Fedorchuk**, M.S. 2014, Thesis: Evaluating the biogenicity of fluvial-lacustrine stromatolites from the Mesoproterozoic Copper Harbor Conglomerate, Upper Peninsula of Michigan, USA.
- Tristan J. Kloss**, M.S. 2008, Ph.D. 2012, Dissertation: Interpreting the paleoenvironmental setting of marine shales during the Cambrian radiation: Global insights from sedimentology, paleoecology, and geochemistry.
- Takafumi Mochizuki**, Ph.D. 2014, Visiting Graduate Student, Spring 2011. Graduate student at the University of Tokyo/Nagoya University Museum under the advisement of Dr. Tatsuo Oji.
- Mark T. Schlottke**, M.S. 2008, Thesis: Paleoecology of the Middle Cambrian eocrinoid echinoderm *Gogia spiralis*: Changes in substrate adaptations through ontogeny.
- Kirk L. Domke**, M.S. 2005, Thesis: Paleoecology of the Middle Cambrian edrioasteroid echinoderm *Totiglobus*: Implications for unusual Cambrian body plans.

UNDERGRADUATE THESIS ADVISEES

Dylan T. Wilmeth, B.S. 2013, Honors Senior Thesis: Putative domal microbial structures in fluvial siliciclastic facies of the Mesoproterozoic (1.09 Ga) Copper Harbor Conglomerate, Upper Peninsula of Michigan, USA.

MANUSCRIPT REVIEWING FOR JOURNALS AND BOOKS

Alcheringa; Astrobiology; Canadian Journal of Earth Sciences; The Depositional Record; Earth-Science Reviews; Echinoderm Paleobiology (Indiana University Press); *Geobiology; Geobios; Geology; Geosphere; International Journal of Developmental Biology; Journal of Asian Earth Sciences; Journal of the Geological Society; Journal of Paleontology; Journal of Systematic Palaeontology; Lethaia; Nature; Nature Communications; Palaeogeography, Palaeoclimatology, Palaeoecology; Palaeontologia Electronica; Palaeontographica Canadiana; Palaeontology; Palaeoworld; PALAIOS; Paleobiology; Precambrian Research; PNAS; Rocky Mountain Geology; Science; Sedimentology; Taphonomy: Process and Bias Through Time* (Springer-Verlag); *Topics in Geobiology* (Springer-Verlag); *University of Chicago Press.*

PROPOSAL REVIEWING FOR FUNDING AGENCIES

American Chemical Society - Petroleum Research Fund.
 American Philosophical Society - Lewis and Clark Fund.
 Amherst College Faculty Research Award Program.
 Deutsche Forschungsgemeinschaft (DFG – German Research Foundation).
 National Geographic Society – Changing Planet Program.
 National Science Foundation, EAR – Education and Human Resources Program.
 National Science Foundation, EAR – Sedimentary Geology and Paleobiology Program.
 Natural Environment Research Council (NERC).

INVITED TALKS AND LECTURES

- 2021 **U.S. Department of Defense**, Panelist for New DoD AAAS Science & Technology Policy Fellows.
- 2021 **Air Force Institute of Technology**, Seminar Guest on Climate Change.
- 2021 **U.S. Department of State**, Panelist on Climate and Conflict.
- 2021 **U.S. Army War College**, Guest Lecturer on Climate Change and National Security.
- 2020 **Strategic Environmental Research and Development Program (SERDP) Conference**, *U.S. Army Climate Resilience Initiatives.*
- 2020 **American Meteorological Society**, Panelist on National Security at Summer Policy Colloquium.
- 2019 **Association of Defense Communities**, Panelist on Water Resilience at DoD Energy & Water Forum.
- 2019 **U.S. Army War College**, Guest Lecturer on Climate Change and National Security.

- 2019 **George Washington University**, Panelist on Climate Resilience at Environmental and Energy Management Institute.
- 2017 **University of Southern California**, *The Ediacaran fossil record of western Mongolia and the early evolution of multicellular life.*
- 2016 **University of Illinois at Chicago**, *The Ediacaran fossil record of western Mongolia and the early evolution of multicellular life.*
- 2015 **UWM American Geographical Society Library**, *Exploring the early animal fossil record in southwest China and western Mongolia.*
- 2014 **University of Cincinnati**, *Paleoecology of the Cambrian radiation.*
- 2013 **Milwaukee Public Museum**, *The early evolution of animals.*
- 2013 **UWM Science Bag**, *The evolution of life: From microbes to dinosaurs.*
- 2011 **Bryn Mawr College**, Guest Lecturer in Geology 203 – Invertebrate Paleobiology: *The Cambrian radiation.*
- 2009 **Bryn Mawr College**, Guest Lecturer in Geology 203 – Invertebrate Paleobiology: *The Cambrian radiation.*
- 2008 **The University of Chicago**, *Paleoecology of the Cambrian radiation.*
- 2007 **The College of Wooster**, Keynote Speaker – 20th Annual Keck Symposium: *Paleoecology from the Pliocene of Cyprus to the Cambrian of China: The Keck experience and its impact on my current research.*
- 2007 **University of Illinois at Chicago**, *Paleoecology of the Cambrian radiation.*
- 2006 **University of Wisconsin-Madison**, *Paleoecology of the Cambrian radiation.*
- 2003 **University of Wisconsin-Milwaukee**, *Paleoecology of marine invertebrates during the Cambrian radiation.*

UNIVERSITY SERVICE

- 2016-2018 **Member**, Natural Sciences Division Executive Committee, College of Letters & Science, University of Wisconsin-Milwaukee.
- 2014-2017 **Chair**, Website Committee, Department of Geosciences, University of Wisconsin-Milwaukee.
- 2011-2017 **Chair**, Scholarship Committee, Department of Geosciences, University of Wisconsin-Milwaukee.

PROFESSIONAL SERVICE

- 2021-Present **Member**, Strategic Environmental Research and Development Program (SERDP) Resource Conservation and Resiliency Technical Committee.
- 2019-Present **Member**, Climate Security Working Group, The Center for Climate & Security.
- 2018-Present **Collaborator**, Sedimentary Geochemistry and Paleoenvironments Project, Stanford University.
- 2018-2020 **Collaborator**, IGCP 668: Equatorial Gondwanan History and Early Palaeozoic Evolutionary Dynamics.
- 2015-2020 **Member**, Terminal Ediacaran Stage Working Group, International Subcommission on Ediacaran Stratigraphy (ISES).

- 2015 **Co-Organizer and Co-Leader**, Earth-Centered Communication for Cyberinfrastructure: Challenges of Field Data Collection, Management, and Integration, NSF EarthCube Field Trip to Eastern California, August 2–9.
- 2014 **Co-Organizer and Co-Leader**, Earth-Centered Communication for Cyberinfrastructure: Challenges of Field Data Collection, Management, and Integration, NSF EarthCube Field Trip to Eastern California, August 1–8.
- 2013 **Invited Participant**, iDigBio Paleontology Collections Digitization Workshop, Yale Peabody Museum, New Haven, September 23–26.
- 2013 **External Examiner**, Ph.D. Dissertation of Lorna J. O’Brien, University of Toronto. Advisor: Dr. Jean-Bernard Caron.
- 2011 **External Examiner**, Ph.D. Dissertation of Zhongwu Lan, The University of Western Australia. Advisor: Dr. Zhong-Qiang Chen.
- 2010-2011 **Treasury Audit Committee**, The Paleontological Society.
- 2009 **Member**, International Scientific and Organizing Committee, The Centennial Anniversary of the Discovery of the Burgess Shale by Charles Walcott - An International Conference on the Cambrian Explosion, Banff, British Columbia, Canada, August 3–8.
- 2008 **Co-Organizer and Co-Chair**, Paleontological Society Topical Session: *Quantifying the Early Evolution of Life: Numerical Approaches to the Evaluation of Precambrian/Cambrian Animals and Ecosystems*, Geological Society of America Annual Meeting, Houston, October 8.
- 2007 **Proposal Review Panelist**, Deutsche Forschungsgemeinschaft (DFG – German Research Foundation), Berlin, Germany, May 7–8.
- 2005 **Organizer and Co-Chair**, Paleontological Society/GSA Geobiology and Geomicrobiology Division Topical Session: *The Dawn of Animal Life: Evolutionary and Paleoecological Patterns in the Neoproterozoic-Cambrian Animal Fossil Record*, Geological Society of America Annual Meeting, Salt Lake City, October 26.
- 2004 **Consultant**, Evolving Planet Exhibit, The Chicago Field Museum.
- 2003 **Co-Chair**, Early Life Session, Geological Society of America Annual Meeting, Seattle, November 2.
- 2001 **Co-Organizer and Co-Chair**, California Paleontology Conference, Los Angeles, April 27–29.

PROFESSIONAL AFFILIATIONS

Air Force Association
 American Association for the Advancement of Science
 American Geophysical Union
 American Meteorological Society
 Association of the United States Army
 Geological Society of America, Fellow
 National Center for Science Education
 Paleontological Society

SEPM Society for Sedimentary Geology
Sigma Xi, Full Member

PUBLICATIONS

Peer-Reviewed Journal Articles, Book Chapters, and Books (36 Total)

Farrell, U.C., Samawi, R., Anjanappa, S., Klykov, R., Adeboye, O.O., Agic, H., Ahm, A.C., Boag, T.H., Bowyer, F., Brocks, J.J., Brunoir, T.N., Canfield, D., Chen, X., Cheng, M., Clarkson, M.O., Cole, D.B., Cordie, D.R., Crockford, P.W., Cui, H., Dahl, T.W., Mouro, L.D., Dewing, K., **Dornbos, S.Q.**, et al., 2021, The Sedimentary Geochemistry and Paleoenvironments Project. *Geobiology* 00: 1–12. doi: [10.1111/gbi.12462](https://doi.org/10.1111/gbi.12462)

Lipp, A.G., Shorttle, O., Sperling, E.A., Brocks, J.J., Cole, D.B., Crockford, P.W., Del Mouro, L., Dewing, K., **Dornbos, S.Q.**, et al., 2021, The composition and weathering of the continents over geologic time. *Geochemical Perspectives Letters* 17: 21–26. doi: [10.7185/geochemlet.2109](https://doi.org/10.7185/geochemlet.2109)

Cordie, D.R., **Dornbos, S.Q.**, and Marenco, P.J., 2020, Evidence for a local reef eclipse in a shallow marine carbonate environment following the regional extinction of archaeocyaths in Laurentia (Stage 4, Cambrian). *Facies* 66(5). doi: [10.1007/s10347-019-0589-9](https://doi.org/10.1007/s10347-019-0589-9)

Cordie, D.R., **Dornbos, S.Q.**, and Marenco, P.J., 2019, Increase in carbonate contribution from framework-building metazoans through early Cambrian reefs of the western Basin and Range, USA. *PALAIOS* 34(3): 159–174. doi: [10.2110/palo.2018.085](https://doi.org/10.2110/palo.2018.085)

Cordie, D.R., and **Dornbos, S.Q.**, 2019, Restricted morphospace occupancy of early Cambrian reef-building archaeocyaths. *Paleobiology*: 16 pp. doi: [10.1017/pab.2019.5](https://doi.org/10.1017/pab.2019.5)

Cordie, D.R., **Dornbos, S.Q.**, Marenco, P.J., Oji, T., and Gonchigdorj, S., 2019, Depauperate skeletonized reef-dwelling fauna of the early Cambrian: Insights from archaeocyathan reef ecosystems of western Mongolia. *Palaeogeography, Palaeoclimatology, Palaeoecology* 514: 206–221. doi: [10.1016/j.palaeo.2018.10.027](https://doi.org/10.1016/j.palaeo.2018.10.027)

Oji, T., **Dornbos, S.Q.**, Yada, K., Gonchigdorj, S., Hasegawa, H., Mochizuki, T., Takayanagi, H., and Iryu, Y., 2018, Penetrative trace fossils from the late Ediacaran of Mongolia: Early onset of the agronomic revolution. *Royal Society Open Science* 5: 172250. doi: [10.1098/rsos.172250](https://doi.org/10.1098/rsos.172250)

Dornbos, S.Q., Oji, T., Kanayama, A., and Gonchigdorj, S., 2016, A new Burgess Shale-type deposit from the Ediacaran of western Mongolia. *Scientific Reports* 6: 23438. doi: [10.1038/srep23438](https://doi.org/10.1038/srep23438)

Novek, J.M., **Dornbos, S.Q.**, and McHenry, L.J., 2016, Palaeoredox geochemistry and bioturbation levels of the exceptionally preserved early Cambrian Indian Springs biota, Nevada, USA. *Lethaia* 49: 604–616. doi: [10.1111/let.12169](https://doi.org/10.1111/let.12169)

Fedorchuk, N.D., **Dornbos, S.Q.**, Corsetti, F.A., Isbell, J.L., Petryshyn, V.A., Bowles, J.A., and Wilmeth, D.T., 2016, Early non-marine life: Evaluating the biogenicity of Mesoproterozoic fluvial-lacustrine stromatolites. *Precambrian Research* 275: 105–118. doi: [10.1016/j.precamres.2016.01.015](https://doi.org/10.1016/j.precamres.2016.01.015)

Wilmeth, D.T., Corsetti, F.A., Bisenic, N., **Dornbos, S.Q.**, Oji, T., and Gonchigdorj, S., 2015, Punctuated growth of microbial cones within early Cambrian oncoids, Bayan Gol Formation, western Mongolia. *PALAIOS* 30(12): 836–845. doi: [10.2110/palo.2015.014](https://doi.org/10.2110/palo.2015.014)

Kloss, T.J., **Dornbos, S.Q.**, Chen, J.Y., McHenry, L.J., and Marenco, P.J., 2015, High-resolution geochemical evidence for oxic bottom waters in three Cambrian Burgess Shale-type deposits. *Palaeogeography, Palaeoclimatology, Palaeoecology* 440: 90–95. doi: [10.1016/j.palaeo.2015.08.048](https://doi.org/10.1016/j.palaeo.2015.08.048)

Kloss, T.J., **Dornbos, S.Q.**, and Chen, J.Y., 2015, Substrate adaptations of sessile benthic metazoans during the Cambrian radiation. *Paleobiology* 41(2): 342–352. doi: [10.1017/pab.2014.22](https://doi.org/10.1017/pab.2014.22)

Wilmeth, D.T., **Dornbos, S.Q.**, Isbell, J.L., and Czaja, A.D., 2014, Putative domal microbial structures in fluvial siliciclastic facies of the Mesoproterozoic (1.09 Ga) Copper Harbor Conglomerate, Upper Peninsula of Michigan, USA. *Geobiology* 12(1): 99–108. doi: [10.1111/gbi.12071](https://doi.org/10.1111/gbi.12071)

Dornbos, S.Q., Clapham, M.E., Fraiser, M.L., and Laflamme, M., 2012, Lessons from the fossil record: The Ediacaran radiation, the Cambrian radiation, and the end-Permian mass extinction. In: Solan, M., Aspden, R.J.A., and Paterson, D.M. (eds.), *Marine Biodiversity and Ecosystem Functioning*. Oxford University Press, Oxford: 52–72. ISBN: 9780199642267

Laflamme, M., Schiffbauer, J.D., and **Dornbos, S.Q.**, (eds.), 2011, *Quantifying the Early Evolution of Life: Numerical Approaches to the Evaluation of Fossils and Ancient Ecosystems*. Topics in Geobiology 36, Springer: 462 p. ISBN: 9789400706798

Dornbos, S.Q., 2010, Phosphatization through the Phanerozoic. In: Allison, P.A., and Bottjer, D.J. (eds.), *Taphonomy, Second Edition: Process and Bias Through Time*. Topics in Geobiology 32, Springer: 435–456. ISBN: 9789048186433

Plotnick, R.E., **Dornbos, S.Q.**, and Chen, J.Y., 2010, Information landscapes and the sensory ecology of the Cambrian radiation. *Paleobiology* 36(2): 303–317. doi: [10.1666/08062.1](https://doi.org/10.1666/08062.1)

Domke, K.L., and **Dornbos, S.Q.**, 2010, Paleoecology of the middle Cambrian edrioasteroid echinoderm *Totiglobus*: Implications for unusual Cambrian morphologies. *PALAIOS* 25(3): 209–214. doi: [10.2110/palo.2009.p09-111r](https://doi.org/10.2110/palo.2009.p09-111r)

Kloss, T.J., **Dornbos, S.Q.**, and Chen, J.Y., 2009, Paleoecology and taphonomy of the Early Cambrian Maotianshan Shale biota chancelloriid *Allonnia junyuani*: Adaptation to nonactualistic Cambrian substrates. *Palaeogeography, Palaeoclimatology, Palaeoecology* 277(3-4): 149–157. doi: [10.1016/j.palaeo.2009.03.002](https://doi.org/10.1016/j.palaeo.2009.03.002)

Dornbos, S.Q., 2008, Tiering history of early epifaunal suspension-feeding echinoderms. In: Ausich, W.I., and Webster, G.D. (eds.), *Echinoderm Paleobiology*. Indiana University Press, Bloomington: 132–143. ISBN: 9780253351289

Dornbos, S.Q., and Chen, J.Y., 2008, Community palaeoecology of the Early Cambrian Maotianshan Shale biota: Ecological dominance of priapulid worms. *Palaeogeography, Palaeoclimatology, Palaeoecology* 258(3): 200–212. doi: [10.1016/j.palaeo.2007.05.022](https://doi.org/10.1016/j.palaeo.2007.05.022)

Dornbos, S.Q., Noffke, N., Hagadorn, J.W., 2007, Mat-decay features. In: Schieber, J. et al. (eds.), *Atlas of Microbial Mat Features Preserved Within the Siliciclastic Rock Record*. Atlases in Geosciences 2, Elsevier, Amsterdam: 106–110. ISBN: 9780444528599

Clapham, M.E., Bottjer, D.J., Jamet, C.M., Bonuso, N., Fraiser, M.L., Marengo, P.J., **Dornbos, S.Q.**, and Pruss, S.B., 2006, Assessing the ecological dominance of Phanerozoic marine invertebrates. *PALAIOS* 21(5): 431–441. doi: [10.2110/palo.2005.P05-017R](https://doi.org/10.2110/palo.2005.P05-017R)

Dornbos, S.Q., 2006, Evolutionary palaeoecology of early epifaunal echinoderms: Response to increasing bioturbation levels during the Cambrian radiation. *Palaeogeography, Palaeoclimatology, Palaeoecology* 237(2-4): 225–239. doi: [10.1016/j.palaeo.2005.11.021](https://doi.org/10.1016/j.palaeo.2005.11.021)

Chen, J.Y., Bottjer, D.J., Davidson, E.H., **Dornbos, S.Q.**, Gao, X., Yang, Y.H., Li, C.W., Li, G., Wang, X.Q., Xian, D.C., Wu, H.R., Hwu, Y.K., and Tafforeau, P., 2006, Phosphatized polar-lobe-forming eggs and embryos from the Precambrian of southwest China. *Science* 312(5780): 1644–1646. doi: [10.1126/science.1125964](https://doi.org/10.1126/science.1125964)

Dornbos, S.Q., Bottjer, D.J., Chen, J.Y., Gao, F., Oliveri, P., and Li, C.W., 2006, Environmental controls on the taphonomy of phosphatized animals and animal embryos from the Neoproterozoic Doushantuo Formation, southwest China. *PALAIOS* 21(1): 3–14. doi: [10.2110/palo.2004.p04-37](https://doi.org/10.2110/palo.2004.p04-37)

Dornbos, S.Q., Bottjer, D.J., Chen, J.Y., Oliveri, P., Gao, F., and Li, C.W., 2005, Precambrian animal life: Taphonomy of phosphatized metazoan embryos from southwest China. *Lethaia* 38(2): 101–109. doi: [10.1080/00241160510013187](https://doi.org/10.1080/00241160510013187)

Dornbos, S.Q., Bottjer, D.J., and Chen, J.Y., 2005, Paleoeology of benthic metazoans in the Early Cambrian Maotianshan Shale biota and Middle Cambrian Burgess Shale biota: Evidence for the Cambrian substrate revolution. *Palaeogeography, Palaeoclimatology, Palaeoecology* 220(1-2): 47–67. doi: [10.1016/j.palaeo.2003.11.016](https://doi.org/10.1016/j.palaeo.2003.11.016)

Dornbos, S.Q., Bottjer, D.J., and Chen, J.Y., 2004, Evidence for seafloor microbial mats and associated metazoan lifestyles in Lower Cambrian phosphorites of Southwest China. *Lethaia* 37(2): 127–137.

Chen, J.Y., Bottjer, D.J., Oliveri, P., **Dornbos, S.Q.**, Gao, F., Ruffins, S., Chi, H., Li, C.W., and Davidson, E.H., 2004, Small bilaterian fossils from 40 to 55 million years before the Cambrian. *Science* 305(5681): 218–222. doi: [10.1126/science.1099213](https://doi.org/10.1126/science.1099213)

Chen, J.Y., Oliveri, P., Gao, F., **Dornbos, S.Q.**, Li, C.W., Bottjer, D.J., and Davidson, E.H., 2002, Precambrian animal life: Probable developmental and adult cnidarian forms from Southwest China. *Developmental Biology* 248(1): 182–196. doi: [10.1006/dbio.2002.0714](https://doi.org/10.1006/dbio.2002.0714)

Dornbos, S.Q., and Bottjer, D.J., 2001, Taphonomy and environmental distribution of helicoplacoid echinoderms. *PALAIOS* 16(3): 197–204. doi: [10.1669/0883-1351\(2001\)016<0197:TAEDOH>2.0.CO;2](https://doi.org/10.1669/0883-1351(2001)016<0197:TAEDOH>2.0.CO;2)

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