

## Publications: Jean-Bernard Caron, Associate Curator of Invertebrate Palaeontology

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### REFEREED PUBLICATIONS

- 2009 Zhao, F., J.-B. Caron, SX Hu, and M. Zhu. "Quantitative analysis of taphofacies and paleocommunities in the Early Cambrian Chengjiang Lagerstätte." *Palaios*, 24: 826-839.
- 2009 Pettersson, S., L.E. Holmer, and J.B. Caron. "First record of a pediculate linguloid from the Middle Cambrian Burgess Shale." *Acta Zoologica*, 89: 1-3.
- 2009 Daley, A.C., G.E. Budd, J.-B. Caron, G.D. Edgecombe, and D. Collins. "The Burgess Shale Anomalocaridid *Hurdia* and its Significance for Early Euarthropod Evolution." *Science*, 323: 1597-1600.
- 2008 Caron, J.B. and D.A. Jackson. "Paleoecology of the Greater Phyllopod Bed community, Burgess Shale." *Palaeogeography, Palaeoclimatology, Palaeoecology*, 258(3):222-256.
- 2007 Conway Morris, S. and J.B. Caron. "Halwaxiids and the Early Evolution of the Lophotrochozoans." *Science*, 315: 1255-1258.
- 2007 Vannier, J., J.B. Caron, J.L. Yuan, D. Briggs, D. Collins, Y.L. Zhao, and M.Y. Zhu. "*Tuzoia*: morphology and lifestyle of a giant bivalved arthropod of the Cambrian seas." *Journal of Paleontology*. 81:445-471.
- 2006 Caron, J.B., A.H. Scheltema, C. Schander, and D. Rudkin. A soft-bodied mollusc with radula from the Middle Cambrian Burgess Shale." *Nature*, 442(7099): 159-163.
- 2006 Caron, J.B. and D.A. Jackson. "Taphonomy of the Greater Phyllopod Bed Community, Burgess Shale." *Palaios*, 21(5): 451-465.
- 2006 Holmer, L.E. and J.B. Caron. "A spinose stem group brachiopod with pedicle from the Middle Cambrian Burgess Shale." *Acta Zoologica*, 87: 273-290.
- 2006 Valli, A., J.B. Caron, E. Debard, C. Guerin, J.F. Pastre, and J. Argant. 2006. "The latest Villafranchian Palaeontological site of Peyrolles (Issoire, Puy-de-Dome, France): results of new surveys." *Geodiversitas*, 28: 297-317.
- 2005 Caron, J.B. "*Banffia constricta*, a putative vetulicolid from the Middle Cambrian Burgess Shale." *Transactions of the Royal Society of Edinburgh*, 96: 95-111.
- 2004 Caron, J.B., D.M. Rudkin, and S. Milliken. "A new late Silurian (Pridolian) Naraoiid (Euarthropoda: Nektaspida) from the Bertie Formation of Southern Ontario-Delayed Fallout from the Cambrian Explosion." *Journal of Paleontology*, 78: 1138-1145.
- 1999 Hugueney, M., J.L. Poidevin, A.M. Bodergat, J.B. Caron, and C. Guerin. "Des mammifères de l'Aquitainien inférieur a La Roche-Blanche-Gergovie (Puy-de-Dome, France), révélateurs de l'activité post-oligocene du rift en Limagne de

Clermont." *Comptes rendus de l'Académie des sciences. Série II, Sciences de la terre et des planètes*, 328: 847-852.

#### NON-REFEREED PUBLICATIONS

- 2008 Caron, J.B. "Palaeontology: Ancient worms in armour." *Nature*, 451(7175): 133-134.
- 2008 Caron, J.B., A.H. Scheltema, C. Schander, and D. Rudkin. "*Odontogriphus*: earliest molluscan radula." In *McGraw-Hill 2008 Yearbook of Science and Technology*. McGraw-Hill, New York, pp 239-242.
- 2007 Caron, J.B, A.H. Scheltema, C. Schander, and D. Rudkin. "Reply to Butterfield on stem-group 'worms': fossil lophotrochozoans in the Burgess Shale." *BioEssays*, 29(2): 200-202.
- 2006 Caron, J.B. "Evolution of fossil ecosystems." In *Journal of Paleontology. Volume 80*, edited by P.A. Selden and J.R. Nudds. The University of Chicago Press, p. 787-788.
- 2006 Caron, J.B. and D. Rudkin. "On the Trail of a Phantom Fossil." *Rotunda*, 39(2): 20-29.

#### CONFERENCE PAPERS

- 1999 Caron, J.B. and D. Collins. "The enigmatic animal, *Banffia constricta*, Burgess Shale, Middle Cambrian, British Columbia, Canada." *International Symposium: The origins of Animal body plans and their fossil records*, Early Life Research Centre, Kunming, June 20-25, Abstracts: 34-35.
- 2001 Caron, J.B. "The limbless animal *Banffia constricta* from the Burgess Shale (Middle Cambrian, Canada): a stem-group arthropod?" *North American Paleontological Convention 2001, June 26-July 1, PaleoBios 21, suppl No. 2*, Program and Abstracts: 39.
- 2001 Caron, J.B. "Testing the structure, and variability, of the Lower Phyllopod Bed paleocommunity (Burgess Shale, Walcott Quarry) with multivariate analysis methods; goals and examples." *Canadian Paleontology Conference, University of Western Ontario, London, ON, Canada, Sept 22-24*, Abstract and Short paper: 6-9.
- 2002 CARON, J.B. "Juveniles (?) of the arthropod *Alalcomenaeus cambricus* of the Middle Cambrian Lower Phyllopod Bed, Burgess Shale, British Columbia; implications for paleoecological studies." *47th Geological Association of Canada Annual Meeting, Saskatoon, May 27-29*, Abstracts volume 27: 17.
- 2002 Caron, J.B., S. Milliken, and D.M. Rudkin. "A late Silurian (Pridolian) Naraoiid arthropod from the Bertie Formation of Southern Ontario-Delayed Fall-out from the Cambrian Explosion." *Canadian Paleontology Conference, Ottawa, Sept 27-29*, Abstract and Short Papers No. 12: 3-6.
- 2002 Caron, J.B. "Census fossil assemblages from the Middle Cambrian Burgess Shale." *Paleontological Association 46th Annual Meeting, Department of Earth Sciences, University of Cambridge, Cambridge UK, Dec 15-18*, Newsletter of the Paleontological Association 51: 87.

- 2003 Gostlin, K. and J.B. Caron. "Sedimentology of the Burgess Shale: refining the conditions for soft-bodied fossil preservation." *Geological Association of Canada Annual meeting, Vancouver, May 25-28*, Volume 28 (electronic proceedings).
- 2003 Caron, J.B., and K. Gostlin. "Taphofacies of the Burgess Shale." *Paleontological Association 47th Annual Meeting, Department of Earth Sciences, University of Leicester, Leicester UK, Dec 14-17*, Newsletter of the Paleontological Association 54:91.
- 2004 Caron, J.B. "Turnover and stability patterns in the Greater Phyllopod Bed community (Burgess Shale)." *Canadian Paleontology Conference, St. Andrews, N.B., Sept 23-26*, Canadian Paleontology Conference proceedings No 2: 15.
- 2004 Vannier, J., J.B. Caron, J.L. Yuan, D. Briggs, D. Collins, Y.L. Zhao, and M.Y. Zhu. "*Tuzoia*: a giant bivalved arthropod of the Cambrian seas." *Paleontological Association 48th Annual Meeting, Lille, Dec 17-20*, Newsletter of the Paleontological Association 57:185.
- 2005 Caron, J.B. "Community analysis of the Middle Cambrian Greater Phyllopod Bed, Burgess Shale." *Ecological Society of America annual meeting, Montreal*, Abstract volume: 100-101.
- 2005 Caron, J.B. "Taphonomy and community analysis of the Middle Cambrian Greater Phyllopod Bed, Burgess Shale." *The Fourth International Symposium on the Cambrian System and the Tenth International Conference of the Cambrian Stage Subdivision Working Group, Nanjing, China, 22*, (Supplement): 14.
- 2005 Caron, J.B. "Taphonomy of the Greater Phyllopod Bed Community, Burgess Shale." *Geological Society of America annual meeting, Salt Lake City*, Abstracts with Programs, 37:547.
- 2006 Caron, J.B., A.H. Scheltema, C. Schander, and D. Rudkin. "A soft-bodied mollusc with radula from the Middle Cambrian Burgess Shale." *The second International Paleontological Congress, June 17-21, 2006, Beijing*, Abstract volume: 302.
- 2006 Holmer, L.E. and J.B. Caron. "Affinities of a soft-shelled spinose stem group brachiopod with pedicle from the Middle Cambrian Burgess Shale." *The second International Paleontological Congress, June 17-21, 2006, Beijing*, Abstract volume: 107-108.
- 2006 Zhao, F., M. Zhu, and J.B. Caron. "Taphonomy and community of the Early Cambrian Chengjiang Lagerstätte from the Mafang section, SW China." *The second International Paleontological Congress, June 17-21, 2006, Beijing*, Abstract volume: 313-314.
- 2006 Daley, A., G. Budd, and J.B. Caron. "An interpretation of *Hurdia* as a dinocaridid from the Burgess Shale, British Columbia, Canada." *Progressive Palaeontology 22-23 June 2006, Cambridge*, Abstract book: 7.
- 2007 Caron, J.B. "Early animal evolution and the fossil record." *Canadian Society for Ecology and Evolution, First General Meeting, University of Toronto, Toronto*, p. 37.

- 2007 Caron, J.B. and S. Conway Morris. "Affinities of Cambrian scleritomorph animals." *Paleontological Association Meeting-Uppsala*. Newsletter of the Paleontological Association, 66:27.
- 2007 Daley, A., G. Budd and Caron, J.B. "*Hurdia*, a new anomalocaridid from the Burgess Shale and the origin of biramous limbs in arthropods." *Paleontological Association Meeting-Uppsala*. Newsletter of the Paleontological Association 66:29.
- 2007 Pettersson, S., L. Holmer, and J.B. Caron. "First record of *Lingulella waptaensis* with pedicle from the Middle Cambrian Burgess Shale." *Paleontological Association Meeting-Uppsala*. Newsletter of the Paleontological Association 66:86.