

Jonathan Bujak, PhD

AFFILIATE SCIENTIST



Email
jonathan@theazollafoundation.org

Phone
 (801) 587-8538

Research Interests

- North Atlantic and adjacent margins
- North Pacific-Bering Sea
- Arctic
- Biostratigraphy
- Paleoceanography and circulation
- Past and future climate change
- Biofuels

Dr Jonathan Bujak has more than 40 years' experience studying modern and fossil pollen, spores and dinoflagellates (palynomorphs) within a geological, oceanographic and climatic context. During the 1970s and 1980s, he was a senior research scientist with the Geological Survey of Canada's Atlantic Geoscience Centre whose mandate was to determine the geological and oceanographic history of the Atlantic Ocean. This involved biostratigraphic and kerogen analysis of all key wells drilled off the Canadian east coast, including the original Sable Island C-67 and Hibernia P-15 discoveries and publication of the first palynological zonal schemes for the Mesozoic-Cenozoic. Due to its location on the campus of the Bedford Institute of Oceanography, this work included scientific cruises along the Atlantic coast from Florida to Baffin Bay.

His work then took him to the UK in 1990, where he studied hundreds of wells and sections from onshore and offshore Europe including the Faroe-Shetland Basin, Rockall, Porcupine, the North Sea and the Norwegian Greenland Sea. Based on his extensive experience, he has been the designated 'Expert' for North Sea and Faroe-Shetland equity disputes.

Jonathan was involved with the only two expeditions to core sediments beneath the North Pole – the 1979 shallow Lomonosov Ridge Experiment (LOREX) and the 2004 Arctic Coring Expedition (ACEX), which discovered the Eocene 'Arctic Azolla Event'. This remarkable event triggered the initial shift away from a greenhouse climate towards our modern icehouse world, and was featured in his June 2014 article in the Geological Society of London's, *Geoscientist* (<https://www.geolsoc.org.uk/Geoscientist/Archive/June-2014/The-Arctic-Azolla-event>).

Dr Bujak has more than 100 publications and abstracts, many on the circum North Atlantic including onshore northwest European stratotypes. He is also in demand for radio, television and magazine interviews about his work including BBC Radio 4's July 2014 'Inside Science' and Washington's 'Climate Science' which was reprinted in *Scientific American*.

Jonathan is currently working with EGI in research to develop low-cost biofuels from integrated Algal-Azolla (A-A) feedstock.

Jonathan and his daughter, Environmental Scientist Alexandra Bujak, are now writing a book, *The Azolla Story* (<http://theazollastory.com/>) about the Arctic Azolla Event and the unique plant's potential to help reduce today's climate change and provide local renewable biofertilizer, livestock feed, food and biofuel. They founded the non-profit Azolla Foundation in 2012 to disseminate information about azolla through its website and Facebook pages with regional pages for countries including Africa, Canada, India, Indonesia, Malaysia and the Philippines.

EMAIL:
ContactEGI@egi.utah.edu

PHONE: (801) 585-3826