



PRESS RELEASE

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RESEARCH AT THE BUFFALO MUSEUM OF SCIENCE PUBLISHED

BUFFALO, NY (November 1, 2011) – The Buffalo Society of Natural Sciences completes its 138th year of publishing the *Bulletin of the Buffalo Society of Natural Sciences*. The Bulletin's articles focus on the natural sciences with contributions from Science & Research staff at the Buffalo Museum of Science, from staff at the Society's environment education site, Tifft Nature Preserve, and from research colleagues. These articles represent the Society's support for original research, and the Museum's mission to use collections and research to enhance public understanding of how science works.

This year's Bulletin articles include:

Taxonomy of the fungal genus *Buchwaldoboletus*

Beatriz Ortiz-Santana (US Forest Service) and Ernst Both (Curator Emeritus of the Buffalo Museum of Science) present results of a preliminary survey of this small, world-wide genus of about a dozen fungal species to clarify their relationships

Historical artifacts from the Hiscock site, northeastern Genesee County, New York

Catrina Caira (Sherkston, Ontario) and Sarah Jones (Fairport, New York) document ceramics, nails, metal, wood, brick, buttons, beads, cloth, and leather artifacts from the 19th and 20th centuries found during the Buffalo Museum's 29-year research program at the Hiscock site in western New York.

Biogeography of some New Zealand land snails

Frank M. Climo and Karen Mahlfeld (Wellington, New Zealand) describe a new genus (*Kokopapa*), consisting of six species, and show that their distributions are correlated with geological processes dating back to the late Cretaceous Period. Further, they argue that this relationship suggests that the ancestors of these species persisted through the Cenozoic Era despite claims for New Zealand having been completely submerged at this time.

Control of Japanese knotweed at the Tifft Nature Preserve

David Spiering (Buffalo Museum of Science) compares control of Japanese knotweed by the herbicides EcoSMART[®], Phydura[®], and Roundup PROMAX[®] at the Tifft Nature Preserve. Management implications for controlling invasive plants and impacts on non-target organisms from herbicides are discussed, and future research is proposed.

Asian ghost moth biogeography

John Grehan (Buffalo Museum of Science) compares the distributions of eight East Asian genera. Only in northeastern China, Far East Russia, and Japan is there any overlap with genera found in other regions (Eurasia, North America). Two eastern Asian genera appear to be related to genera in Australasia, and the current geographic isolation is attributed to the geological history of Southeast Asia.

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Bibliography of scientific publications about the Hiscock site, Genesee County, New York

Richard Laub (Buffalo Museum of Science) lists the scientific publications generated to date from the Museum's 29-year research project at the Hiscock site. These publications record the changing faunas, floras, cultures and environments of western New York State over the past 13,000 years.

To download copies of current and recent articles visit <http://www.sciencebuff.org/research/publications/bulletin/>.

ABOUT RESEARCH AT THE BUFFALO MUSEUM OF SCIENCE

The Buffalo Museum of Science has a long history of supporting scientific research, and has significant collections in the fields of Anthropology, Botany, Geology, Invertebrate Zoology, Mycology and Vertebrate Zoology. Museum-based research currently focuses on three main areas – ecological management, particularly at the Tiff Nature Preserve (David Spiering), evolutionary biology (John Grehan) and post-Ice Age environments (Richard Laub). Further research supported at the museum involves lithic analysis of North American stone tools (Jack Holland), fungal systematics (Ernst Both), and Mesozoic paleontology (William and Kristen Parsons). Further details of museum research can be found on the museum's web site at <http://www.sciencebuff.org/research/current-research-activities/>

ABOUT THE BUFFALO MUSEUM OF SCIENCE

The Buffalo Museum of Science is a non-profit educational institution dedicated to the study and interpretation of the natural and physical sciences. Its extensive collections of over 700,000 specimens and artifacts represent all facets of the natural world with an emphasis on Western New York, as well as man-made objects spanning the globe. Based at 1020 Humboldt Parkway, and anchoring Buffalo's East Side in Olmsted-designed Martin Luther King Jr. Park since 1929, the Museum presents a wide variety of programs and services for children, teachers, families, adults, and community organizations throughout the year. The Museum also operates Tiff Nature Preserve, a 264-acre urban wetland preserve on reclaimed former industrial land in South Buffalo. For further information on the Museum and its upcoming activities, call 716.896.5200 or visit www.sciencebuff.org.

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