

**Plant Fossils from the Fisset Brook Formation of Cape Berton Island, Nova Scotia**

A.E. Kasper

*Department of Biology, Rutgers University, Newark, New Jersey*

W.H. Forbes

*Department of Geology, University of Maine, Presque Isle, Maine*  
and

R.A. Jamieson

*Department of Geology, Dalhousie University, Halifax, Nova Scotia B3H 3J5*

*Archaeopteris*, a genus of Upper Devonian progymnospermous plants, is reported from the Fisset Brook Formation of Cape Breton Island, Nova Scotia. This is the first known occurrence of Upper Devonian plants from the province. Plants assigned to *Archaeopteris* are arborescent, leafy, spore-producing and woody. The specimens collected represent branchlets of sterile and fertile foliage and petrified wood. The sterile foliage falls within the *A.*

*halliana* complex. The petrified wood "*Callixylon*" is well-preserved and consists of tracheids and ray parenchyma. The tracheids show the typical *Callixylon* pattern of grouped, circular-bordered pits. This is the easternmost occurrence of *Archaeopteris-Callixylon* in the northern Appalachians, and correlative units include the Perry Formation (Maine) and Escumanic Formation (Quebec).