

D. UPPER CAMBRIAN AND LOWER ORDOVICIAN TRILOBITE AND CONODONT
BIOSTRATIGRAPHY, WILCOX PEAK, JASPER NATIONAL PARK, ALBERTA

By

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Introduction

The lithostratigraphy of the Upper Cambrian succession in southern Alberta has been the subject of several reports by J. D. Aitken, R. G. Greggs, and D. C. Pugh. The development of the biostratigraphic framework for these rocks, however, has received much less attention. Aside from the unpublished thesis study of Greggs (1962), biostratigraphic work has been restricted to brief reports on the conodont and trilobite faunas of a short section across the Cambrian-Ordovician boundary at Mount Wilson, Banff National Park (Derby and others, 1972) and on trilobite faunas near the Mistaya-Survey Peak contact at Wilcox Pass (Dean, 1978). Here, we present occurrence data of trilobites and conodonts for a 345-m measured section through the Franconian and Lower Tremadocian interval at Wilcox Peak, Jasper National Park. The studied section starts at a point 1.5 km northwest of the Columbia Icefields Chalet, and extends along the ridge leading towards Wilcox Peak (see Dean, 1978, fig. 2).

Lithostratigraphy

The interval considered here includes the uppermost Lyell, Bison Creek, Mistaya, and lower Survey Peak Formations. A sharp break in slope marks the boundary between the cliff-forming Lyell carbonates and the recessive shales, mudstones, and limestones of the Bison Creek. The boundary between the Bison Creek and the Mistaya is gradational, and is arbitrarily placed at the level where the carbonates become cliff-forming. The appearance of recessive shales and limestones of the Survey Peak Formation above the resistant Mistaya carbonates also results in a marked break in slope.

Our trilobite and conodont biostratigraphy confirm Dean's (1978, p. 4) conclusion that the Mistaya-Survey Peak contact is somewhat younger at Wilcox Peak than at Mount Wilson, about 40 km to the southeast.

Trilobite Biostratigraphy

This investigation of the Upper Cambrian and Lower Ordovician trilobite biostratigraphy in Banff and Jasper National Parks has been initiated as part of a project on the systematics, phylogeny, and paleobiogeography of the trilobites of the Ptychaspid Biome.

Symposium On Conodont Biostratigraphy

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Symposium on Conodont Biostratigraphy, Ohio State University, 1969 Geological Society of America Conodont Biostratigr, Conodont Biofacies and Provincialism David Leigh Clark, 1984 Conodont Paleozoology Frank Harold Trevor Rhodes, 1973 **U.S. Geological Survey Bulletin** ,1983 **Stratigraphy & Timescales** ,2016-11-22 Stratigraphy and Timescales covers current research across a wide range of stratigraphic disciplines providing information on recent developments for the geoscientific research community This fully commissioned review publication aims to foster and convey progress in stratigraphy including geochronology magnetostratigraphy lithostratigraphy event stratigraphy isotope stratigraphy astrochronology climatostratigraphy seismic stratigraphy biostratigraphy ice core chronology cyclostratigraphy palaeoceanography sequence stratigraphy and more Contains contributions from leading authorities in the field Informs and updates on all the latest developments in the field Aims to foster and convey progress in stratigraphy including geochronology magnetostratigraphy lithostratigraphy event stratigraphy and more Shorter Contributions to Paleontology and Stratigraphy William Jasper Sando, 1987 **Conodont Studies Commemorating the 150th Anniversary of the First Conodont Paper (Pander, 1856) and the 40th Anniversary of the Pander Society** D. Jeffrey Over, 2009 Conodonts are extinct chordates resembling eels known mainly from tooth like microfossils called elements found in Late Cambrian to Late Triassic fossil deposits 495 to 200 MYA The nine manuscripts in this volume were for the most part first presented at conferences dedicated to conodont studies in 2006 2007 that each celebrated two milestones in conodont studies the 150th anniversary of Christian H Pander s 1856 paper that first described and illustrated conodonts and the organization of the society for conodont enthusiasts that now bears his name in 1967 These papers cover a wide range of topics times and regions illustrating the broad utility of conodonts primarily as biostratigraphic tools but also in studies of although not limited to geochemistry paleobiology paleogeography and sequence stratigraphy Publisher s website **Geological Survey Research 1972** Geological Survey (U.S.), 1972 A summary of recent significant scientific and economic results accompanied by a list of geologic hydrologic and cartographic investigations in progress **U.S. Geological Survey Professional Paper** ,1984 **The Appalachian-Ouachita Orogen in the United States** Robert D. Hatcher, Jr., William A. Thomas, George W. Viele, 1989 **Geological Survey Professional Paper** ,1980 **Tectonic Evolution of the Bering Shelf-Chukchi Sea-Arctic Margin and Adjacent Landmasses** Elizabeth L. Miller, Arthur Grantz, Simon Klemperer, 2002 CD ROM contains Geographic Information Systems GIS Database and Supplementary Data for Chapters **Contributions to the Ordovician Paleontology of Kentucky and Nearby States** John Pojeta (Jr.), 1979 *The Great Fossil Enigma* Simon J.

Knell,2012-11-06 Stephen Jay Gould borrowed from Winston Churchill when he described the conodont animal as a riddle wrapped in a mystery inside an enigma This animal confounded science for more than a century Some thought it a slug others a fish a worm a plant even a primitive ancestor of ourselves The list of possibilities grew and yet an answer to the riddle never seemed any nearer Would the animal that left behind these miniscule fossils known as conodonts ever be identified Three times the animal was found but each was quite a different animal Were any of them really the one Simon J Knell takes the reader on a journey through 150 years of scientific thinking imagining and arguing Slowly the animal begins to reveal traces of itself its lifestyle its remarkable evolution its witnessing of great catastrophes its movements over the surface of the planet and finally its anatomy Today the conodont animal remains perhaps the most disputed creature in the zoological world

The Variscan Orogen of Central Europe Ulf Linnemann,2025-08-27 The book is written by international team of specialized geoscientists and represents the current knowledge of the evolution of the Variscan Orogen in Central Europe After a preface the geotectonic position of the mountain belt within the supercontinent Pangea and the zoning of the orogen is described Chapter 1 The birth of the Central European Variscides and the role of the Avalonian and Cadomian orogenic processes as forerunners of the Central European Variscides is presented also in Chapter 1 The big building blocks of the Variscan orogen north and south of the Rheic suture are lined out in detail in the main part of the book Chapters 2 to 18 After the description of the igneous activity in Permo Carboniferous time Chapter 19 neotectonic reactivation Chapter 20 current models for Variscan orogenic processes Chapter 21 and the zircon data base Chapter 22 are briefly characterized A final major section Chapters 23 to 29 includes geobiological palaeontological and palaeoenvironmental data including event stratigraphy relevant for Variscan plate tectonics The book is written for an international readership of professional geoscientists of students of natural sciences and of people interested in the formation and geology of Central Europe

Palynological Correlation of Major Pennsylvanian (Middle and Upper Carboniferous) Chronostratigraphic Boundaries in the Illinois and Other Coal Basins Russel Allen Peppers,1996-01-01

Symposium On Conodont Biostratigraphy Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Symposium On Conodont Biostratigraphy**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

<https://archive.kdd.org/data/Resources/HomePages/Standoff%20In%20The%20Ashes.pdf>

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