

Conference Report

Sedimentation and tectonics in the Welsh Basin

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Report of a joint meeting of the Tectonic Studies Group and the British Sedimentological Research Group of the Geological Society held at the University College of Wales, Aberystwyth on 10–12 April 1986. The organizers were Dr W. R. Fitches and Dr N. H. Woodcock.

Research into the Early Palaeozoic history of Wales is like that history itself; eventful and rarely quiescent. Recent events have been the lively debate on the tectonics of Anglesey provoked by A. J. Barber and M. D. Max, the exemplary volcanological studies in North Wales by the BGS Snowdonia unit, and the definition of Silurian world stratotypes by members of the Ludlow Research Group. The stimulus for this conference was the recently increased activity in structural and sedimentological research in mainland Wales. Twenty-eight papers were given over the first 2 days, followed by a day of field trips to Snowdonia, the Aberystwyth area, and the Wenlock of eastern Mid-Wales.

Precambrian events featured in three papers. D. S. Wood concentrated on the evidence for the superficial 'soft-sediment' origin of the Gwna melange of Anglesey and postulated a setting predating rather than accompanying the subduction system that produced the Anglesey blueschists. In the later deformation history of Anglesey, D. Carter distinguished two main deformations. A Caledonian event was preceded by one of pre-Arenig or probably pre-Arvonian age, with an unconformity present between the Monian and Lower Palaeozoic rocks. Precambrian sedimentation of the Longmyndian of Salop was described by J. Pasley in terms of a progradational basin fill. This is represented in upward order by basal shale, turbidite, deltaic, alluvial floodplain and sandy braidplain facies. The major syncline in the Longmyndian is confirmed, but the age of this and subsequent faulting is a sinistral strike-slip system is uncertain.

Cambrian sedimentation and diagenesis were covered first in two studies of the Harlech Grits Group of North Wales. C. Griffiths identified a transgressive sequence, with shallow marine sediments overlain by turbidites deposited in confined fault-controlled basins. Some well-sorted, cross bedded tops to turbidite beds indicate traction current reworking, though the type of flow is problematical. M. Bennett described stratiform manganese mineralization in the turbidite units, considered to be syngenetically to syndiagenetically formed in anoxic marine conditions. Lower greenschist facies metamorphism has formed new Mn-bearing minerals without destroying sedimentary and diagenetic textures. The sedimentology of the Cambrian in the Fishguard area of South Wales was interpreted by C.

Cornelius & A. Hartley as shallow marine to tidal facies preserved in fault-repeated slices. Early to Mid-Ordovician sedimentation is dominated by the Arenig transgression and the subsequent basin deepening. The transgression was documented by C. Cornelius & A. Hartley in the Fishguard area, where a local deltaic facies is important, and by J.-J. Traynor in southern Dyfed, where local facies control by pre-Arenig topography is especially evident. New biostratigraphic correlation of the Arenig in North Wales by A. J. Beckley showed that the transgression was strongly diachronous. Early to Mid-Arenig deposition occurred in small fault-controlled basins, with a major Late Arenig foundering initiating more widespread basinal marine conditions. R. Trythall *et al.* described oolitic ironstones deposited during the Mid-Ordovician continuation of this basinal history in North Wales. Iron was sourced from a nearby landmass, possibly the Irish Sea Landmass to the northwest, and deposited under local tectonic control on upthrown fault blocks in the basin.

Late Ordovician sedimentation and volcanism were intimately linked in North Wales. G. Orton showed how volcanoclastic sediment distribution and facies were strongly controlled by volcanotectonic uplift and subsidence. Palaeogeographic configurations in the shallow marine to emergent setting changed dramatically after each volcanic episode. S. D. G. Campbell *et al.* showed how the siting of these eruptions was itself influenced by basement faults. Some faults are attributable to caldera formation and other volcanotectonic processes. Latest Ordovician post-volcanic sedimentation in South Wales was described by J. M. Anketell.

Early Silurian sedimentation was described mainly from Mid-Wales. J. M. Anketell documented the latest Ordovician to Llandovery lithostratigraphy over a large area of central Dyfed and, with T. Kishimoto, focused on the sedimentology of one Lower Llandovery turbidite unit. A steady downcurrent and crosscurrent waning of flow strength is apparent in the axially transported main system, but a separate western system was supplied laterally from local fault scarps. N. H. Woodcock gave evidence for syndepositional fault control in the shallow marine Llandovery sediments across the SE margin of the basin. The Wenlock turbidites in Powys were detailed by A. J. Dimberline & N. H. Woodcock. An axially supplied high efficiency system was laterally confined by a fault-controlled southeastern margin to the basin, which the system first overlapped then offlapped. This storm-triggered events also reached the basin from the bordering shelf, whose carbonate facies were interpreted by K. Ratcliffe. The Much Wenlock Limestone Formation apparently shows two sea-level

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Table of Contents Sedimentation And Tectonics Of The Welsh Basin

1. Understanding the eBook Sedimentation And Tectonics Of The Welsh Basin
 - The Rise of Digital Reading Sedimentation And Tectonics Of The Welsh Basin
 - Advantages of eBooks Over Traditional Books
2. Identifying Sedimentation And Tectonics Of The Welsh Basin
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Sedimentation And Tectonics Of The Welsh Basin
 - User-Friendly Interface
4. Exploring eBook Recommendations from Sedimentation And Tectonics Of The Welsh Basin
 - Personalized Recommendations
 - Sedimentation And Tectonics Of The Welsh Basin User Reviews and Ratings
 - Sedimentation And Tectonics Of The Welsh Basin and Bestseller Lists
5. Accessing Sedimentation And Tectonics Of The Welsh Basin Free and Paid eBooks

- Sedimentation And Tectonics Of The Welsh Basin Public Domain eBooks
 - Sedimentation And Tectonics Of The Welsh Basin eBook Subscription Services
 - Sedimentation And Tectonics Of The Welsh Basin Budget-Friendly Options
6. Navigating Sedimentation And Tectonics Of The Welsh Basin eBook Formats
 - ePub, PDF, MOBI, and More
 - Sedimentation And Tectonics Of The Welsh Basin Compatibility with Devices
 - Sedimentation And Tectonics Of The Welsh Basin Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Sedimentation And Tectonics Of The Welsh Basin
 - Highlighting and Note-Taking Sedimentation And Tectonics Of The Welsh Basin
 - Interactive Elements Sedimentation And Tectonics Of The Welsh Basin
 8. Staying Engaged with Sedimentation And Tectonics Of The Welsh Basin
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Sedimentation And Tectonics Of The Welsh Basin
 9. Balancing eBooks and Physical Books Sedimentation And Tectonics Of The Welsh Basin
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Sedimentation And Tectonics Of The Welsh Basin
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Sedimentation And Tectonics Of The Welsh Basin
 - Setting Reading Goals Sedimentation And Tectonics Of The Welsh Basin
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Sedimentation And Tectonics Of The Welsh Basin
 - Fact-Checking eBook Content of Sedimentation And Tectonics Of The Welsh Basin
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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