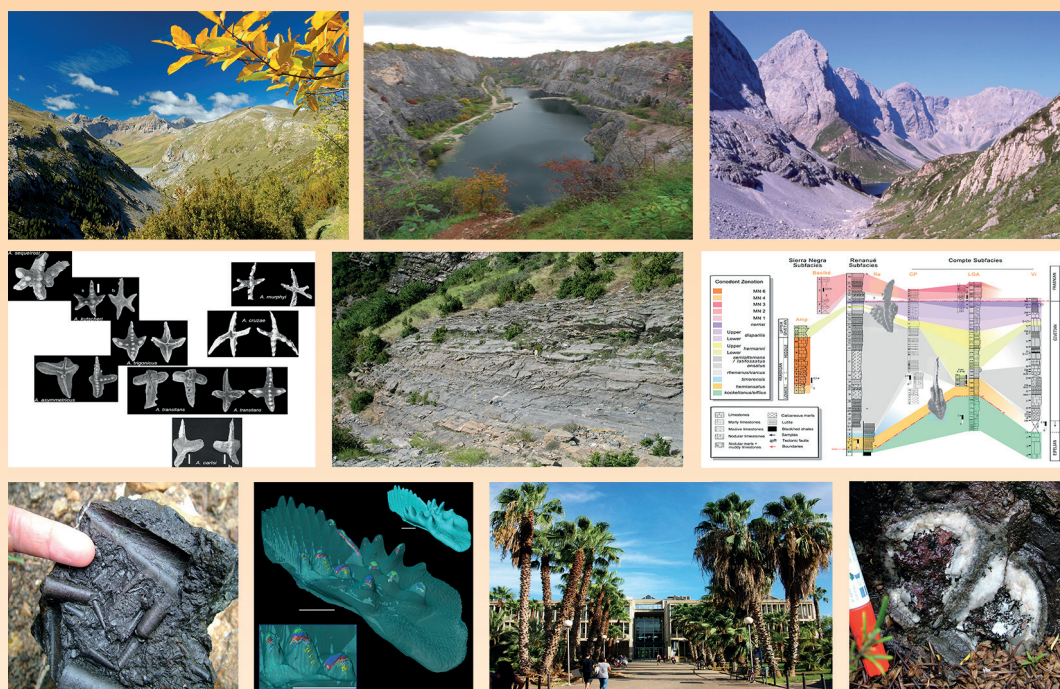


# FOURTH INTERNATIONAL CONODONT SYMPOSIUM. ICOS IV "PROGRESS ON CONODONT INVESTIGATION"



Editores: Jau-Chyn Liao  
José Ignacio Valenzuela-Ríos



MINISTERIO  
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Instituto Geológico  
y Minero de España

**FOURTH INTERNATIONAL CONODONT SYMPOSIUM**  
**ICOS IV**  
**“PROGRESS ON CONODONT INVESTIGATION”**

JOINTLY WITH:

THE INTERNATIONAL SUBCOMMISSION ON DEVONIAN STRATIGRAPHY ***SDS***

THE INTERNATIONAL SUBCOMMISSION ON SILURIAN STRATIGRAPHY ***ISSS***

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Cover images (photos by members of the organizing committee of the 4th ICOS meeting)

Upper left: Palaeozoic outcrops of the Tena valley, Aragonian Pyrenees (Spain). Photo by Jau-Chyn Liao.

Upper centre: Lower Palaeozoic succession in the Barrandian area (Bohemian Massif, Czech Republic). Photo by Ladislav Slavík.

Upper right: Palaeozoic succession in the Volayer Area (Carnic Alps, Italy-Austria border). Photo by Carlo Corradini.

Middle left: Ancyrodelloides lineage proposal, lower to middle Lochkovian (Lower Devonian) in the Central Pyrenees (Spain). Photo by José I. Valenzuela-Ríos.

Middle centre: Pragjan-Emsian succession in the Baliera section, Benasque area, Aragonian Pyrenees. Photo by José I. Valenzuela-Ríos.

Middle right: Regional correlation in the southern part of the Central Pyrenees for the Middle to Upper Devonian. Photo by Jau-Chyn Liao.

Lower left: Orthoceras limestones (Lower Devonian) from Gerri La Sal section, Noguera Pallaresa valley. Photo by Jau-Chyn Liao.

Lower centre one: Reconstruction in 3D of the Epigondolella quadrata (Upper Triassic) of the Pizzo Mondelo (Italy). Photo by Michele Mazza and Carlos Martínez-Pérez.

Lower centre second: Main library "Eduard Boscà" in the Campus of Burjasot, University\_of\_Valencia (Spain).

Lower right: Schiphocrinites from the Silurian/Devonian in Gerri La Sal section. Photo by Jau-Chyn Liao.

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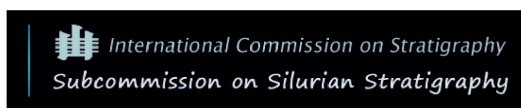
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## MIDDLE-UPPER ORDOVICIAN CONODONTS FROM THE FFAIRFACH AND GOLDEN GROVE GROUPS IN SOUTH WALES, UNITED KINGDOM

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The conodont fauna of the reference succession of the British regional Llandeilian Stage of the Llanvirn Series was first described in a now classical study by Rhodes (1953) using single element (form) taxonomy. Although some subsequent authors have recorded a few additional conodont taxa from this late Darriwilian-Sandbian interval at Llandeilo and coeval strata in nearby areas (e.g. Bergström, 1964, 1971; Bergström and Orchard, 1985), the present study is the first to present a complete taxonomic review of these faunas, which include approximately 20 multielement species. Most prominent among the compound conodont taxa in these fauna from South Wales are representatives of *Amorphognathus*, *Baltoniodus*, *Eoplacognathus*, *Icriodella*, and *Plectodina*. Biostratigraphically diagnostic species indicate that the Llandeilo study succession ranges from the *Eoplacognathus lindstroemi* Subzone of the *Pygodus serra* Zone to the *Baltoniodus variabilis* Subzone of the *Amorphognathus tvaerensis* Zone.

The Llandeilo faunas have their own biogeographic character. The common occurrence of species of *Plectodina* and less common representatives of *Erismodus* and *Icriodella* are reminiscent of coeval North American Midcontinent faunas but the latter lack *Baltoniodus* and *Eoplacognathus*. The Llandeilo conodont species association is also somewhat similar to that of the Caradoc Series of Welsh Borderland (Bergström, 1971; Savage and Bassett, 1985) but the latter differs in lacking, among others, *Baltoniodus*, and *Eoplacognathus*. These two genera are common in coeval Baltoscandic faunas, but the latter also contain such characteristic genera as *Complexodus*, *Protopanderodus*, and *Pygodus*, which are not represented in our Llandeilo collections. Because specimens of *Plectodina* are quite rare, and *Erismodus* is missing, in the coeval Baltoscandic faunas, the faunal similarity between the Baltoscandic and the South Wales faunas is quite limited.

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