



17 July
Lisboa

STRATI 2013

1st INTERNATIONAL CONGRESS ON STRATIGRAPHY



Pre-Meeting Trip – SFT-01

TITLE: Origin and evolution of late Neoproterozoic-Early Paleozoic sedimentary basins associated with supercontinent cycles: a perspective from the Northern Gondwana margin (SW Iberia): in the footsteps of Francisco Gonçalves

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DATES: Sunday, June 30th- Monday, July 1st- Tuesday, July 2nd (three days field trip)

PRICE: 300 €

Number of participants: 20 to 22

SUMMARY:

Francisco Gonçalves is the honoree of this field trip. He was professor emeritus of the Department of Geosciences at the University of Évora where he dedicated much of his research to the cartography of the Ossa-Morena Zone. This geological mapping of great rigor and quality are published in the Geological Map of Portugal scale 1/50 000. His scientific production has resulted in more than ninety scientific publications, mostly published in Portugal, from 1957 to 1996. Francisco Gonçalves with his experience of field geologist and expert on Precambrian and Paleozoic stratigraphy contributed decisively to the knowledge of the geology of Iberia, and in particular in the Alentejo region chosen for this field trip.

This fieldtrip provides several geological cross-sections through the Southwest of Iberia (Central Iberian Zone and Ossa-Morena Zone) in order to study the Ediacaran to Lower Devonian stratigraphy of the North-Gondwana. During the field trip will be discuss: i) the nature and meaning of the main unconformities, ii) the significances of the variation on sedimentary conditions with time and also lateral

variations in stratigraphy, iii) the recent paleogeographic reconstructions of SW Iberia sedimentary basins based on U-Pb zircon geochronology; and consequently; v) geodynamic evolution of North-Gondwana.

Participants will see key outcrops representative of the late Neoproterozoic to Early Paleozoic stratigraphy that has been recently the focus of geochronological and isotopic studies.

DAILY DESCRIPTION OF THE FIELD TRIP

Day one (Sunday, June 30th)

8:00 h - Depart from Lisbon

Coach trip from Lisbon to Penacova (Coimbra)

11:00 -13:00 – Geological cross-section of Raiva (Ediacaran and Lower Ordovician stratigraphy of the Central-Iberian Zone; Lower Ordovician unconformity);

13:00 – 14:00 – Lunch in the terrace viewpoint of the Penacova locality and the Mondego River

Coach trip from Penacova to Portalegre

17:30 – 19:00 – Geological cross-section of Portalegre (Ediacaran and Lower Ordovician stratigraphy of the Ossa-Morena - Central-Iberian transition zone)

Coach trip from Portalegre to Castelo de Vide

19:30 – Estimated time of arrival at Castelo de Vide

Dinner and overnight in Castelo de Vide

Day two (Monday, July 1st)

8:30 – Depart from Castelo de Vide to Campo Maior

10:00 – 13:00 – Geological cross-section of Ouguela-Assumar (Ediacaran and Lower Cambrian stratigraphy of the Ossa-Morena Zone; Lower Cambrian unconformity)

13:00 – 14:00 - Lunch in the field

Coach trip from Campo Maior to Vila Boim

14:30 – 16:30 – Geological cross-section of Vila Boim-Terrugem (Cambrian stratigraphy of the Ossa-Morena Zone)

Coach trip from Terrugem to Estremoz (Estremoz is a city internationally known for its marbles)

17:00 – 19:30 – Geological cross-section of Estremoz

Coach trip from Estremoz to Évora

20:15 – Estimated time of arrival at Évora (an UNESCO World Heritage Site)

Dinner (traditional restaurant with regional dishes of Alentejo region) and overnight in Évora

Day three (Tuesday, July 2nd)

9:00 – Depart from Évora

Coach trip from Évora to Aldeia da Serra (Redondo)

10:00 – 11:00 – Geological cross-section of Serra de Ossa (Cambrian stratigraphy of the Ossa-Morena Zone)

Coach trip from Aldeia da Serra to Barrancos

13:00 -14:00 - Lunch in the field

14:00 – 16:00 – Geological cross-section of Barrancos (Ordovician-Lower Devonian stratigraphy of the Ossa-Morena Zone)

Coach trip from Barrancos to Lisboa

20:00 - Estimated time of arrival at Lisbon