

## SECOND CIRCULAR

# “TRILO 08” 4<sup>th</sup> INTERNATIONAL TRILOBITE CONFERENCE Toledo (Spain), 16-24 June 2008

We are pleased to invite you to attend to the **Fourth International Trilobite Conference**, to be held from Monday, June 16<sup>th</sup> to Tuesday, June 24<sup>th</sup>, 2008, in Toledo (Spain). Toledo is a monumental city, located 70 km south of Madrid, with good connection by highways as well as by frequent high speed train from the capital. Although founded around 540 BC, and being an important Roman, Visigoth and Moor city, Toledo is best known as the “City of the Three Cultures” because Christians, Jews and Muslims lived here peacefully together for centuries. Behind its walls, Toledo preserves a unique array of artistic and cultural legacy in the form of churches, palaces, fortresses, mosques and synagogues from the 10<sup>th</sup> to the 16<sup>th</sup> centuries within an intricate, windy conglomeration of narrow streets. This great diversity of artistic styles makes the Historic Quarter of this past capital of the Spanish Empire a real open-air museum, which has led to it being declared a UNESCO World Heritage Site. Besides the great historical value of the city, one of its advantages is that the congress and accommodation facilities will be considerably close together.

### Organizing Committee

Isabel Rábano, Spanish Geological Survey, Madrid, Spain  
Eladio Liñán, Zaragoza University, Spain  
Rodolfo Gozalo, Valencia University, Burjassot, Spain  
Artur A. Sá, Tras-os-Montes e Alto Douro University, Vila Real, Portugal  
Juan Carlos Gutiérrez-Marco, Spanish Council for Scientific Research, Madrid  
J. Javier Álvaro, Zaragoza University, Spain & Université de Lille I, France  
Miguel Arbizu, Oviedo University, Spain  
Maria Eugenia Dies Álvarez, Zaragoza University, Spain  
Diego García-Bellido, Spanish Council for Scientific Research, Madrid

### Scientific Committee

Guillermo Aceñolaza, Argentina  
Per Ahlberg, Sweden  
Osvaldo Bordonaro, Argentina  
David L. Bruton, Norway  
Euan C. Clarkson, United Kingdom  
Raimund Feist, France  
Richard A. Fortey, United Kingdom  
Arne T. Nielsen, Denmark

Alan Owen, United Kingdom  
Adrian Rushton, United Kingdom  
Franco Tortello, Argentina

## Sponsors

Instituto Geológico y Minero de España (Spanish Geological Survey)  
Consejo Superior de Investigaciones Científicas (Spanish Council for Scientific Research)  
Universidad de Zaragoza  
Universitat de Valencia  
Universidad de Tras-os-Montes e Alto Douro, Vila Real  
Ministerio de Educación y Ciencia (Spanish Ministry of Education and Science)  
Real Fundación de Toledo (Royal Foundation of Toledo)  
Diputación de Toledo  
Fundación Ortega y Gasset  
City Council of Arouca, Portugal  
Valerio & Figueiredo Lda., Arouca  
Sociedad Española de Paleontología  
Denman Institute for Research on Trilobites  
Spanish Committee for the International Year of Planet Earth (IUGS-UNESCO)

## Presentations and Topics

Oral and poster presentations are planned on the following topics:

1. Trilobite paleobiology and paleoecology
2. Trilobite phylogeny and evolutionary patterns
3. Trilobite taphonomy and lagerstätten
4. Paleobiogeography and biostratigraphy of trilobites
5. Trilobite behavior evidenced by the ichnological record
6. Other marine arthropods living with trilobites
7. Trilobites and geological heritage

The oral technical sessions will consist of talks scheduled for 15 or 20 minutes inclusive of questions that will be arranged in single sessions on June 19<sup>th</sup> and 20<sup>th</sup> (Thursday and Friday) in the Royal Foundation of Toledo. Posters will be displayed during the morning of Sunday 22<sup>nd</sup> in a special session sponsored by the Diputación of Toledo.

## Preliminary Program

**June 16-18<sup>th</sup>:** *Pre-Conference field trip.* Giant Ordovician trilobites from Canelas, Arouca (northern Portugal). Departing from Madrid and ending in Toledo. Co-leaders: A. Sá & J.C. Gutiérrez-Marco.

**June 19<sup>th</sup>:** Registration, opening, introduction and first day of technical sessions at the Royal Foundation of Toledo. Welcoming party in the evening followed by a promenade through the city.

**June 20<sup>th</sup>:** Second day of technical sessions at the Royal Foundation of Toledo and conference dinner.

**June 21<sup>st</sup>:** *Mid-Conference field trip* (covered by the registration fee). Ordovician trilobites and trilobite ichnofossils from the Toledo Mountains. Co-leaders: I. Rábano & J.C. Gutiérrez-Marco.

**June 22<sup>nd</sup>:** Morning: poster session at the Cultural Center “San Clemente” followed by a farewell party offered by the Diputación de Toledo. Those participants in the post-conference field trip will depart by bus from Toledo in the early evening.

**June 22<sup>nd</sup>-24<sup>th</sup>:** *Post-Conference field trip*. Lower and Middle Cambrian trilobites of selected localities in the Iberian Chains (NE Spain). Co-leaders: E. Liñán, R. Gozalo & M.E. Dies.

## Field Excursions

***Pre-Conference field trip. June 16-18<sup>th</sup>.*** Giant Ordovician trilobites from Canelas, Arouca (northern Portugal) in the Valerio & Figueiredo roofing slates quarry. Co-leaders: A. Sá & J.C. Gutiérrez-Marco. Price: 250 Euro (the fee covers all meals, accommodation –sharing double rooms– and transportation during the excursion). This field trip is restricted to a maximum of 35 participants.

Ordovician outcrops near Arouca are in the southeastern extension of the Valongo anticline located ESE of Oporto city. Here, the Middle Ordovician (Darriwilian) shale of the Valongo Formation bears levels of fine-grained roofing slate that has been sporadically quarried over the last hundred years. The first references of invertebrate fossils from these quarries were made at the beginning of the last century, and preliminary studies were made by Décio Thadeu in 1956. Renewal of interest in the exploration and commercialization of roofing slates in the area led to the reopening and enlargement of the Valerio quarry. The most outstanding paleontological feature of the quarried slates is the abundance of complete exoskeletons of rare trilobites represented by giant specimens up to 70 cm in length. These belong to nineteen species, mainly asaphids and dikelokephalinids, that occur in association with brachiopods, bivalves, gastropods, large cephalopods (orthocone nautiloids of metric size), echinoderms, hyolitids, conularids, graptolites and ichnofossils.

Departure by bus from Madrid at 2:00 pm on Monday 16<sup>th</sup> June from the Spanish Geological Survey (23, Rios Rosas Street: metro stop *Rios Rosas*, on Line 1, exit “Rios Rosas impares”). Return to Toledo on the evening of Wednesday 18<sup>th</sup> June.

***Mid-Conference field trip. June 21<sup>st</sup>.*** Ordovician trilobites and trilobite ichnofossils from the Toledo Mountains. Co-leaders: I. Rábano & J.C. Gutiérrez-Marco. Transportation and meal covered by the registration fee of Trilo08.

During the excursion, participants will be able to collect abundant trilobites from shale at a famous Darriwilian locality south of Toledo (Ventas con Peña Aguilera), followed by a visit to an outstanding outcrop of the Armorican Quartzite with *Cruziana* ichnofacies in the Cabañeros National Park.

Beginning and end of the excursion in Toledo (9 am to 8 pm).

**Post-conference field trip. June 22-24<sup>th</sup>.** Lower and Middle Cambrian trilobites of selected localities in the Iberian Chains (NE Spain). Co-leaders: E. Liñán, R. Gozalo & M.E. Dies. Price: 250 Euro (this fee covers all meals, accommodation –sharing double rooms– and transportation during the excursion). This field trip is restricted to a minimum of 15 and a maximum of 25 participants.

Two of the most important Cambrian trilobite localities in NE Spain (province of Zaragoza) will be visited. The Jarque section is the most continuous Lower-Middle Cambrian sequence of the Iberian Chains where trilobites from the Marianian to the Languedocian stages have been recorded. The Murero outcrops (Bilbilian to Languedocian) have been known since the 19<sup>th</sup> Century, when the first trilobites were reported by de Verneuil. Many studies have been carried out since then in the area, including that of an uppermost Lower to Middle Cambrian lagerstätten with several Burgess Shale taxa. Murero is also the type section for the Valdemiedes Event, an extinction event at the classical Lower-Middle Cambrian boundary before the radiation of the paradoxidids in the early Middle Cambrian. Many other groups, such as bradoriid arthropods, brachiopods, echinoderms, sponges, annelids, algae and ichnofossils, have been also recorded in both the Jarque and Murero sections.

Departure from Toledo to Daroca in the early evening of June 22; return to Madrid in the late evening of June 24.

### **IGCP 503 Session**

Alan Owen and J. Javier Álvaro will be convening a session of presentations relevant to IGCP 503 (*Ordovician Palaeogeography and Palaeoclimate*) at the Conference. Short papers for talks or posters should be submitted in the normal way (see conference website) but please note that your submission is also a contribution to IGCP 503.

### **Publication of Meeting Contributions**

A refereed proceedings volume will be edited by Isabel Rábano and Rodolfo Gozalo in a monographic series of the Spanish Geological Survey (*Cuadernos del Museo Geominero*) and presented at the time of the Conference together with the rest of the registration package. Rather than short or extended abstracts, participants are encouraged to send short papers with text up to 4 pages long (DINA-4 size) and with no more than 3 b/w or color figures, one of which may be a plate. Detailed guidelines for authors are available in the Conference's web page ([www.igme.es/trilo08](http://www.igme.es/trilo08)).

### **Accommodation**

Participants are asked to book their own accommodation in Madrid (those connecting with the pre and post-Conference excursions) and Toledo. Rooms will not be booked through the registration process. Please book your rooms as soon as possible; a selection of hotels and hostels in the “casco histórico”, near

the technical and poster sessions' sites, as well as additional accommodation options out of the historical center, is available at the Conference's web site. The optional accommodation in a university residence has been cancelled due to low interest shown in the pre-registration form of the first circular.

## Venues

Technical sessions will take place at the facilities of the Real Fundación de Toledo, Roca Tarpeya-Plaza de Victorio Macho 2, 45002 Toledo ([www.realfundaciontoledo.es](http://www.realfundaciontoledo.es)).

The poster session is planned to be held at the Centro Cultural San Clemente (Diputación de Toledo), Plaza de Padilla, 45002 Toledo.

## Registration Fees

1. Formal participants: 150 Euro (200 Euro after March 1<sup>st</sup>, 2008).  
Students: 100 Euro (150 Euro after March 1<sup>st</sup>, 2008).  
The registration fee covers the costs of publication, conference bag, coffee breaks, mid-Conference excursion and social receptions.
2. Conference dinner (June 20<sup>th</sup>, 2008): 50 Euro. Also for accompanying people.
3. Pre-Conference excursion (June 16-18<sup>th</sup>): 250 Euro (the fee covers all meals, accommodations, and transportation during the excursion).
4. Mid-Conference excursion (June 21<sup>st</sup>): 25 Euro (only for accompanying persons).
5. Post-Conference excursion (June 22-24<sup>th</sup>): 250 Euro (the fee covers all meals, accommodations, and transportation during the excursion).

Payment of fees must be made by International Money Transfer before February 29<sup>th</sup>, 2008 (late payments after this date increase by 50 Euro).

Make money transfer to:

Account name : Trilo-08  
Account number : 2085-8028-77-0330153439  
Bank : IberCaja  
IBAN : ES42 2085 8028 7703 3015 3439  
SWIFT Code : CAZRES2Z

Remember:

- 1.- Specify in your money transfer that the payment is to the order of "Trilo08".
- 2.- Add up all your registration costs (registration fee, conference dinner and field trips, when applicable) and also include the cost of all bank charges for the

money transfer. It should be sent as a single money transfer. We should receive the full cost of your registration.

3.- Do not forget to send an e-mail message with bank, date of transaction and amount of the transfer to <i.rabano@igme.es>.

### **Important:**

After March 1<sup>st</sup> 2008, the registration fee increases by 50 Euro. Places on the pre- and post-Conference field trips for both formal participants and accompanying persons will be allocated by the order of payment of field trip registration fees. Payment of registration fees should also include fees for field trips and the conference dinners for accompanying persons.

### **General Information**

The selected dates in late spring will be ideal for Toledo when fair weather and day temperatures ranging from 20 to 30°C (lows between 10-15°C) are typical. Such conditions will likely pertain for the field trip destinations, as well.

Those participants needing an official invitation letter for visa purposes must write to the organizers indicating name, passport number, title, sex, the length of stay in Spain, nationality, affiliation and current mailing address.

### **Deadlines**

Short papers submission: 29<sup>th</sup> February, 2008

Payment of registration fees: 29<sup>th</sup> February, 2008

Distribution of third circular: April, 2008

### **Contact**

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## Fourth International Trilobite Conference Toledo, Spain, 16-24 June 2008

### Registration form and payment data

First name and Surname: \_\_\_\_\_

Affiliation and postal address: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

E-mail address: \_\_\_\_\_

Title(s) of the short paper(s) you will present.

Format:      Talk       Poster

Will you participate in:

Pre-Conf. field trip                       Mid-Conf. field trip                       Post-Conf. field trip

Will you participate in the conference dinner?:                      (Plus accompanying person )

#### Payment data\*:

Registration fee (indicate if student rate is applicable*** <input type="checkbox"/> ):	_____ €
Pre-Conference field trip (250 Euro x _ person/s):	_____ €
Mid-Conference field trip (25 Euro)**:	_____ €
Post-Conference field trip (250 Euro x _ person/s):	_____ €
Conference dinner (50 Euro x _ person/s):	_____ €
Total amount:	_____ €

\* Please, check payment instructions. Do not forget to send us a message with bank, date and amount of the transfer.

\*\* Only for accompanying persons.

\*\*\*Please, include proof of student status (university ID card, ISIC card...).

(Fill in this form on your computer and send it back as a DOC file to [i.rabano@igme.es](mailto:i.rabano@igme.es) or by fax: 0034-91-3495830)