



Toledo (Spain), 16-24 June 2008

THIRD CIRCULAR

ORGANIZING COMMITTEE

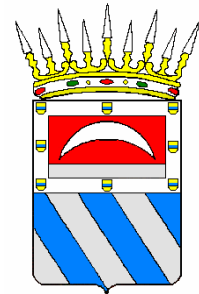
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Eladio Liñán, Zaragoza University, Spain
Rodolfo Gozalo, Valencia University, Burjassot, Spain
Artur A. Sá, Trás-os-Montes e Alto Douro University, Vila Real, Portugal
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Maria Eugenia Dies Álvarez, Zaragoza University, Spain
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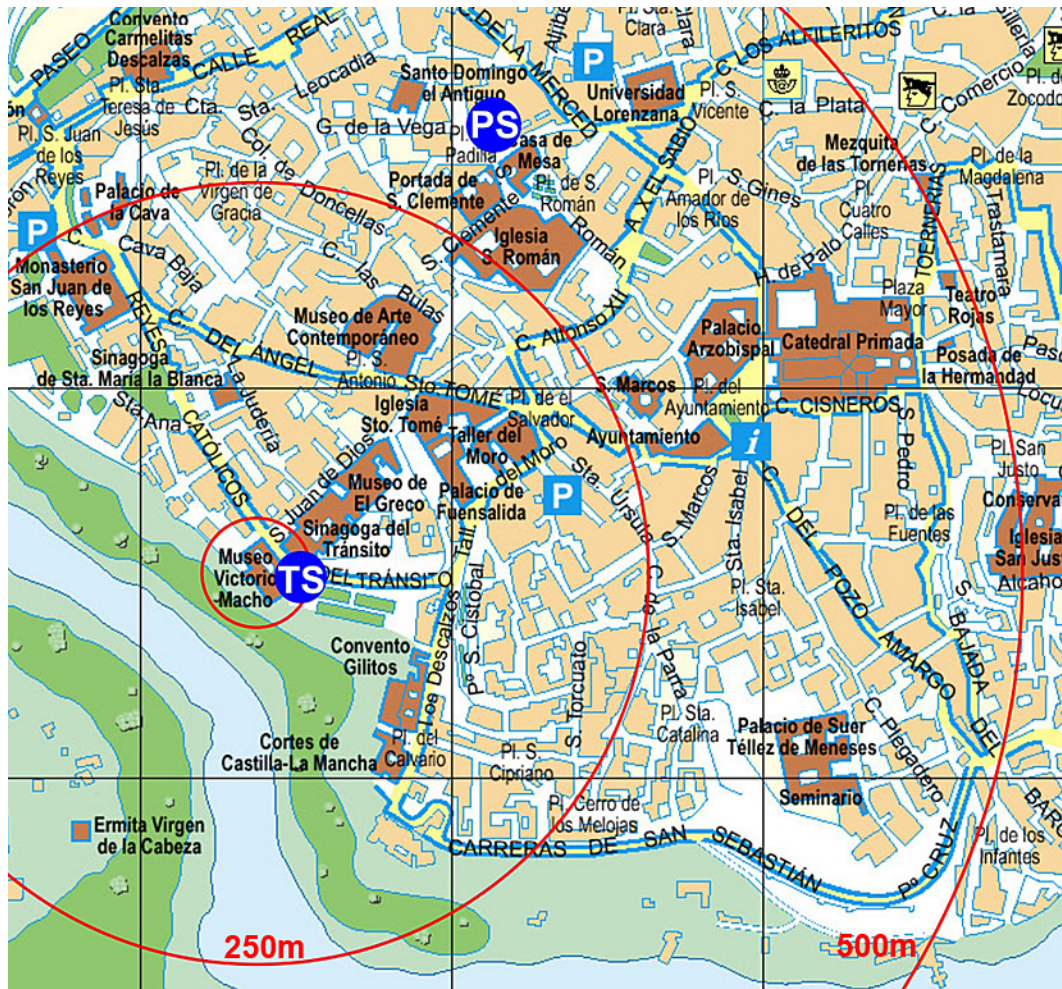
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Consejo Superior de Investigaciones Científicas (Spanish Council for Scientific Research)
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Universidade de Trás-os-Montes e Alto Douro
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Campo de Daroca and Aranda regions, Spain
City Councils of Jarque and Murero, Spain
Sociedad Española de Paleontología
Denman Institute for Research on Trilobites
Spanish and Portuguese Committees for the International Year of Planet Earth (IUGS-UNESCO)



VENUES

Technical sessions (TS) will take place at the facilities of the *Real Fundación de Toledo*, *Museo Victorio Macho*, Plaza de Victorio Macho 2, 45002 Toledo (www.realfundaciontoledo.es).

The poster session (PS) will be held at the *Centro Cultural San Clemente* (Diputación de Toledo), Plaza de Padilla, 45002 Toledo.



PRESENTATIONS

Oral presentations: 10 minutes, plus 5 minutes for questions

Poster contributions: Size **A0** (approx. 90 x 120 cm). People will be able to put up their posters on Friday June 20th from 19:00 to 20:30. In case someone is not going to make it in time to the *Centro Cultural San Clemente*, the organization can set it up for them.

PROGRAMME

Monday, June 16th - Wednesday, June 18th

Pre-Conference field trip. *Giant Ordovician trilobites from Canelas, Arouca (northern Portugal).* Departure by bus from Madrid at 2:00 pm on Monday 16th 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 18th June.

Wednesday, June 18th

Real Fundación de Toledo (Museo Victorio Macho)

18.00-20.00	Reception of participants
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Thursday Morning, June 19th

Real Fundación de Toledo (Museo Victorio Macho)

8.30-13.00	Reception of participants
10.00-10.15	J.S. Hollingsworth THE FIRST TRILOBITES IN LAURENTIA AND ELSEWHERE
10.15-10.30	P.S. Hong, N.C. Hughes, G. Fusco and X.-G. Zhang TRUNK SEGMENTATION OF THE EARLY CAMBRIAN EODISCID TRILOBITE <i>NEOCOBBOLDIA CHINLINICA</i>
10.30-10.45	M.J. Hopkins and M. Webster MORPHOLOGICAL AND ONTOGENETIC CHANGE IN THE “EARLY” CAMBRIAN TRILOBITE <i>ZACANTHOPSIS</i> DURING AN INTERVAL OF ENVIRONMENTAL CHANGE
10.45-11.00	J.R. Paterson, J.B. Jago, J.G. Gehling, D.C. García-Bellido, G.D. Edgecombe and M.S.Y. Lee EARLY CAMBRIAN ARTHROPODS FROM THE EMU BAY SHALE LAGERSTÄTTE, SOUTH AUSTRALIA
11.00-11.30	Coffee break
11.30-13.00	Inauguration of TRILO08 Keynote Conference Richard A. Fortey: LIFE HABITS OF TRILOBITES: A REVIEW
13.00	Spanish wine

Thursday Afternoon, June 19th

Real Fundación de Toledo (Museo Victorio Macho)

16.00-16.15	A.V. Rosova and A.L. Makarova ON THE APPLICATION OF LATIN TERMS AND THEIR INDICES (“TERMIXES”) IN THE DESCRIPTION OF TRILOBITES
16.15-16.30	M. Valent, O. Fatka, M. Šinágl and V. Micka HYOLITHS WITH ENTOMBED TRILOBITES – CRYPTIC BEHAVIOUR OF TRILOBITES?
16.30-16.45	C. Torney, M.R. Lee and A.W. Owen AN ELECTRON BACKSCATTER DIFFRACTION STUDY OF <i>GEESOPS</i>: A BROADER VIEW OF TRILOBITE VISION?
16.45-17.00	M. Webster and M.L. Zelditch INTEGRATION AND REGULATION OF DEVELOPMENTAL SYSTEMS IN TRILOBITES
17.00-17.15	J.R. Paterson, N.C. Hughes and B.D.E. Chatterton TRILOBITE CLUSTERS: WHAT DO THEY TELL US? A PRELIMINARY INVESTIGATION
17.15-17.30	R. Lerosey-Aubril and K.J. McNamara THE CEPHALIC MEDIAN ORGAN OF TRILOBITES
17.30-17.45	N.C. Hughes and G. Fusco GROWTH PROGRESSION IN TRILOBITES: A PRELIMINARY STUDY
17.45-18.15	Coffee break
18.15-18.30	O. Fatka, M. Szabad, P. Budil and V. Micka POSITION OF TRILOBITES IN CAMBRIAN ECOSYSTEM: PRELIMINARY REMARKS FROM THE BARRANDIAN REGION (CZECHIA)
18.30-18.45	I. Korovnikov ORYCTOCEPHALID TRILOBITES FROM THE SIBERIAN PLATFORM
18.45-19.00	F.A. Sundberg POTENTIAL OUTGROUP FOR THE ORYCTOCEPHALIDS, A CLADISTIC ANALYSIS OF CAMBRIAN TRILOBITE HYPOSTOMES
19.00-19.15	O.L. Bordonaro and B.R. Pratt MIDDLE CAMBRIAN TRILOBITES OF LA LAJA FORMATION, WESTERN ARGENTINA
19.15-19.30	B.R. Pratt and O.L. Bordonaro TAPHONOMY OF MIDDLE CAMBRIAN TRILOBITES: DISTINGUISHING TSUNAMIS FROM STORMS IN LA LAJA FORMATION OF WESTERN ARGENTINA
19.30-19.45	N.C. Hughes, S. Peng and S.K. Parcha CAMBRIAN TRILOBITES FROM THE PARAHIO AND ZANSKAR VALLEYS, INDIAN HIMALAYA: A SYNOPSIS

Friday Morning, June 20th

Real Fundación de Toledo (Museo Victorio Macho)

9.00-9.15	Birendra P. Singh ADDITIONAL CAMBRIAN TRILOBITES FROM KURGIAKH VALLEY ZANSKAR BASIN, NORTHWEST HIMALAYA
9.15-9.30	X. Zhu, S. Peng and J. Zuo REVISION AND VENTRAL STRUCTURE OF <i>GUANGXIASPIS GUANGXIENSIS</i> ZHOU, 1977 (TRILOBITA)
9.30-9.45	T. Hegna CLADISTIC ANALYSIS OF PTYCHASPIDID TRILOBITES (UPPER CAMBRIAN), AND A NEW HYPOTHESIS OF INGROUP RELATIONSHIPS
9.45-10.00	S.-B. Lee and D.K. Choi TAXONOMIC REAPPRAISAL AND EVOLUTION OF THE FURONGIAN SAUKIID TRILOBITES FROM KOREA
10.00-10.15	N.R. McKenzie, N.C. Hughes, P.M. Myrow, O.N. Bhargava, S.K. Tangri and K.S. Ghalley LATE CAMBRIAN (FURONGIAN) TRILOBITES OF THE PELE LA GROUP, BLACK MOUNTAIN REGION, BHUTAN, AND THEIR SIGNIFICANCE FOR RECONSTRUCTION OF THE EARLY PALEOZOIC GONDWANAN MARGIN
10.15-10.30	T.-Y. Park and D.K. Choi SILICIFIED FURONGIAN TRILOBITE FAUNA FROM KOREA AND ITS IMPLICATION FOR MONOPHYLY OF THE ORDER ASAPHIDA
10.30-10.45	B. Schoenemann, E.N.K. Clarkson, P. Ahlberg and M.E. Dies Álvarez A FURONGIAN POLYMERID PLANKTONIC TRILOBITE
10.45-11.15	Coffee break
11.15-11.30	C.J. Bentley and J.B. Jago ASPECTS OF SOME LATE MIDDLE CAMBRIAN TASMANIAN FAUNAL ASSEMBLAGES
11.30-11.45	J.R. Laurie SPECIES RELATIONSHIPS IN THE PTYCHAGNOSTIDAE (CAMBRIAN, AGNOSTINA)
11.45-12.00	O. Fatka, P. Budil, M. Szabad and J. Bruthansová EXOSKELETAL CONFIGURATIONS OF CAMBRIAN AND ORDOVICIAN AGNOSTID TRILOBITES: EXAMPLES FROM THE BARRANDIAN AREA OF CZECH REPUBLIC
12.00-12.15	N.E.B. McAdams and J.M. Adrain A NEW GENUS OF DIMEROPYGID TRILOBITES FROM THE LOWER ORDOVICIAN (IBEXIAN) OF WESTERN UTAH, USA
12.15-12.30	W. Hammann, J.J. Álvaro and D. Vizcaïno EARLY ORDOVICIAN TRILOBITES FROM THE IBERIAN CHAINS, NE SPAIN: A TRIBUTE TO WOLFGANG HAMMANN (IGCP 503)
12.30-12.45	H. Pärnaste <i>XYLABION</i> AND RELATED GENERA (IGCP 503)
12.45-13.00	A. Popp and H. Pärnaste MORPHOMETRIC STUDY OF THE ORDOVICIAN PROETID TRILOBITE <i>CYAMELLA STENSIOEI</i> OWENS, 1978 (IGCP 503)
13.00-13.15	A.W. Owen and D.L. Bruton THE ENVIRONMENTAL SIGNIFICANCE AND FATE OF THE TRILOBITE FAUNA OF THE PYLE MOUNTAIN ARGILLITE (UPPER ORDOVICIAN), MAINE (IGCP 503)

Friday Afternoon, June 20th

Real Fundación de Toledo (Museo Victorio Macho)

16.00-16.15	M. Mergl, O. Fatka and P. Budil LOWER AND MIDDLE ORDOVICIAN TRILOBITE ASSOCIATIONS OF PERUNICA: FROM SHOREFACE ENDEMICITY TO OFFSHORE UNIFORMITY (PRAGUE BASIN, CZECH REPUBLIC)
16.15-16.30	Ú.C. Farrell and D.E.G. Briggs PYRITIZED TRILOBITE FAUNAS FROM THE ORDOVICIAN OF NEW YORK STATE: BEECHER'S TRILOBITE BED AND THE WHETSTONE GULF FORMATION NEAR LOWVILLE
16.30-16.45	T. Hansen MID TO LATE ORDOVICIAN TRILOBITE PALAEOECOLOGY IN A MUD DOMINATED EPICONTINENTAL SEA, SOUTHERN NORWAY
16.45-17.00	B.R. Hunda, A. Thompson, A.J. Webber and N.C. Hughes SHORT-TERM PALEOENVIRONMENTALLY-RELATED MORPHOLOGICAL VARIATION IN THE ORDOVICIAN TRILOBITE <i>FLEXICALYMENE GRANULOSA</i>
17.00-17.15	C. Crônier, A. Delabroye and L. Miclot A QUANTITATIVE COMPARISON OF THE ONTOGENY OF TWO CLOSELY RELATED TRINUCLEIDAE TRILOBITES FROM UPPER ORDOVICIAN
17.15-17.30	B.D.E. Chatterton and R.A. Fortey LINEAR CLUSTERS OF ARTICULATED TRILOBITES FROM LOWER ORDOVICIAN (ARENIG) STRATA AT BINI TINZOULIN, NORTH OF ZAGORA, SOUTHERN MOROCCO
17.30-17.45	Derek J. Siveter, D.E.G. Briggs, D.J. Siveter, M.D. Sutton and R.A. Fortey HORNS, EGGS AND LEGS: EXCEPTIONALLY PRESERVED NEW ARTHROPODS FROM THE HEREFORDSHIRE (SILURIAN) LAGERSTÄTTE
17.45-18.15	Coffee break
18.15-18.30	R.C. McKellar and B.D.E. Chatterton BIOSTRATIGRAPHY AND SYSTEMATICS OF SELECT LOWER AND MIDDLE DEVONIAN PHACOPIIDAE (TRILOBITA) FROM SOUTHERN MOROCCO
18.30-18.45	R. Feist and R. Lerosey-Aubril ASSESSING THE HYPOTHESIS OF A THIRD TAGMA IN SCUTELLUID TRILOBITES: ARGUMENTS FROM ONTOGENETIC, FUNCTIONAL, AND EVOLUTIONARY PERSPECTIVES
18.45-19.00	K.J. McNamara and R. Feist PATTERNS OF TRILOBITE EVOLUTION AND EXTINCTION DURING THE FRASNIAN/FAMENNIAN MASS EXTINCTION, CANNING BASIN, WESTERN AUSTRALIA
19.00-19.15	P. Budil, F. Hörbinger, O. Fatka and M. Mergl DALMANITOID AND ACASTOID TRILOBITES AND THEIR EVOLUTION IN THE PRAGUE BASIN (CZECH REPUBLIC)
19.15-19.30	P. Budil, O. Fatka, R. Feist, M. Mergl and C. Minjin NEW POST-CAMBRIAN TRILOBITE ASSOCIATIONS FROM MONGOLIA
19.30-19.45	S. Rak THE NEW LOWER CARBONIFEROUS TRILOBITES FROM CZECH REPUBLIC

21.30	Conference dinner
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Saturday, June 21st

8.30-19.00	Mid-Conference field trip (<i>Ordovician trilobites and trilobite ichnofossils from the Toledo Mountains</i>)
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Sunday Morning, June 22nd

Centro Cultural “San Clemente”

9.00-11.00	Posters
11.00-11.30	Coffee break
11.30-13.00	J.M. Adrain A GLOBAL SPECIES DATABASE OF TRILOBITA: PROGRESS, RESULTS, AND REVISION OF THE <i>TREATISE</i> Treatise meeting Final Trilo08 meeting
15.30	Departure Post-Conference Field Trip

Sunday, June 22nd – Tuesday, June 24th

Post-Conference field trip. *Lower and Middle Cambrian trilobites of selected localities in the Iberian Chains (NE Spain).* Departure from Toledo to Illueca (Zaragoza province) in the early evening of June 22; return to Madrid (Spanish Geological Survey; 23, Rios Rosas Street) in the late evening of June 24.

POSTER PRESENTATIONS

1. THE STATUS OF THE *CRUZIANA* (TRILOBITE TRACE FOSSIL) STRATIGRAPHY IN WESTERN GONDWANA: THE MIXING OF LOWER AND UPPER ORDOVICIAN ELEMENTS IN THE CENTRAL ANDEAN BASIN OF SOUTH AMERICA

Guillermo F. Aceñolaza and Susana Heredia

2. *CRUZIANA YINI* YANG, A PERI-GONDWANAN TRILOBITE TRACE WITH NEW RECORDS IN THE ORDOVICIAN OF SOUTH AMERICA AND IBERIA

Guillermo F. Aceñolaza, Artur A. Sá and Juan Carlos Gutiérrez-Marco

3. SEGMENT VARIATION IN A CAMBRIAN TRILOBITE IN THE CONTEXT OF THE BURGESS SHALE FAUNA

Michael Balint and Nigel C. Hughes

4. TREMADOCIAN TRILOBITE ASSEMBLAGES FROM THE ARGENTINE CORDILLERA ORIENTAL. A PRELIMINARY ANALYSIS

Diego Balseiro and Larisa Marengo

5. FLUCTUATIONS IN TRILOBITE PALAEOBIODIVERSITY DURING THE DEVONIAN IN THE ARDENNES MASSIF

Arnaud Bignon, Catherine Crônier and Allart van Viersen

6. ORDOVICIAN TRILOBITES FROM VALONGO ANTICLINE: AN HISTORICAL AND SCIENTIFIC HERITAGE

Helena Couto and Alexander Lourenço

7. TRILOBITE BIOSTRATIGRAPHY AND BIODIVERSITY PATTERNS THROUGH THE MIDDLE -UPPER CAMBRIAN TRANSITION IN THE KYRSHABAKTY SECTION, MALYI KARATAU, SOUTHERN KAZAKHSTAN

Gappar Kh. Ergaliev, Vyacheslav A. Zhemchuzhnikov, Farkhat G. Ergaliev, Leonid E. Popov, Mansourh Ghobadi Pour and Michael G. Bassett

8. *PARDAILHANIA THORAL*, 1947 (SOLENOPLEUROPSINAE, TRILOBITA) FROM CAESARAUGUSTAN (MIDDLE CAMBRIAN) OF CADENAS IBÉRICAS (NE SPAIN)

Jorge Esteve, Rodolfo Gozalo, Eladio Liñán and Juan B. Chirivella Martorell

9. ENROLMENT ON MIDDLE CAMBRIAN SOLENOPLEUROPSINAE TRILOBITES

Jorge Esteve, Samuel Zamora, Rodolfo Gozalo and Eladio Liñán

10. ORDOVICIAN TRILOBITE GENUS *HUNGIOIDES KOBAYASHI*, 1936

Oldřich Fatka, Petr Budil, Isabel Rábano, Artur A. Sá, Petr Kraft, Ulf Linnemann, Jaroslav Marek and Kerstin Drost

11. DIGGING, SCRATCHING, AND WALKING IN THE STAIRWAY SANDSTONE OF CENTRAL AUSTRALIA: 'ARTHROPOD' ICHNOFOSSILS FROM THE ORDOVICIAN

Stacey Gibb

12. THE CAMBRIAN OF THE CADENAS IBÉRICAS (NE SPAIN) AND ITS TRILOBITES

Rodolfo Gozalo, Eladio Liñán, José Antonio Gámez Vintaned, M. Eugenia Dies Álvarez, Juan B. Chirivella Martorell, Samuel Zamora, Jorge Esteve and Eduardo Mayoral

13. FENESTRASPIIS, AN UNUSUAL DALMANITID TRILOBITE FROM THE LOWER DEVONIAN OF BOLIVIA

David J. Holloway and M. da Gloria P. de Carvalho

14. TRILOBITE ASSOCIATIONS AND TAPHONOMY OF THE SILURIAN REEFS OF EASTERN NORTH GREENLAND

Helen E. Hughes and Alan T. Thomas

15. TRILOBITE BIOGEOGRAPHY AND PERMIAN BIOCHORES

Rudy Lerosey-Aubril

16. CRYPTOPALAEONTOLOGY: MAGICAL DESCRIPTIONS OF TRILOBITES ABOUT TWO THOUSAND YEARS BEFORE SCIENTIFIC REFERENCES

Eladio Liñán and Rodolfo Gozalo

17. NEW TRILOBITE SPECIES FROM THE UPPER CAMBRIAN CHOPKO RIVER SECTION, RUSSIA

Anastasyia L. Makarova

18. ORDOVICIAN (IBEX-WHITEROCK) TRILOBITES FROM CENTRAL EAST GREENLAND

Lucy M.E. McCobb and Robert M. Owens

19. MIDDLE CAMBRIAN ACRITARCH ZONES IN THE OVILLE FORMATION AND THEIR CORRELATION WITH TRILOBITE ZONES IN THE CANTABRIAN MOUNTAINS, NORTHERN SPAIN

Teodoro Palacios

20. HIMALAYAN TRILOBITE FAUNA: PRESENT STATUS WITH RESPECT TO THE CAMBRIAN BIOSTRATIGRAPHY

Suraj K. Parcha

21. LOWER DEVONIAN AULACOPLEURID TRILOBITES FROM ARGENTINA

Juan José Rustán

22. DID THE TRABECULA IN PHACOPID LENSES ACT AS LIGHT-GUIDES?

Brigitte Schoenemann and Euan N.K. Clarkson

23. SUBLENSAR CAPSULES IN PHACOPID EYES

Brigitte Schoenemann, Euan N.K. Clarkson and Alexandra Franz

24. A DEEP WATER TRILOBITE FAUNA FROM THE BRITISH LOWER LUDLOW

Andrew Storey and Alan T. Thomas

25. AN ELECTRON BACKSCATTER DIFFRACTION STUDY OF *GEESOPS*: A BROADER VIEW OF TRILOBITE VISION?

Clare Torney, Martin R. Lee and Alan W. Owen

26. TRILOBITES FROM THE VARGAS PEÑA FORMATION (LLANDOVERY) OF ITAUGUÁ, EASTERN PARAGUAY

M. Franco Tortello, Euan N.K. Clarkson, Norberto J. Uriz, Marta B. Alfaro and Julio César Galeano Inchausti

27. THE PROTO-ANDEAN MARGIN OF GONDWANA AND ACCRETED TERRANES: CONTRASTING BIOGEOGRAPHIC SIGNATURES BASED ON LATE CAMBRIAN-EARLY ORDOVICIAN TRILOBITES

N. Emilio Vaccari and Beatriz G. Waisfeld

28. TOWARD AN INTEGRATED STRATIGRAPHY OF THE MIDDLE CAMBRIAN-FURONGIAN-TREMADOCIAN FROM THE SOUTHERN MONTAGNE NOIRE, FRANCE

Daniel Vizcaïno, Eric Monceret, Sylvie Monceret and J.Javier Álvaro

[\(IGCP 503\)](#)

29. OXYGEN-CONTROLLED EARLY ORDOVICIAN TRILOBITE ASSEMBLAGES: THE THYSANOPYGE FAUNA FROM NORTHWESTERN ARGENTINA

Beatriz G. Waisfeld and N. Emilio Vaccari

30. A REVIEW OF CAMBRIAN BIOGEOGRAPHY OF CHINA

Zhiyi Zhou, Yongyi Zhen and Shanchi Peng