



The 4th International Conodont Symposium

ICOS IV 2017

25 – 30 June 2017, Valencia, Spain

International Subcommittee on Devonian Stratigraphy *SDS*

International Subcommittee on Silurian Stratigraphy *ISSS*

Conference Program

(25 June 2017)

Keynote presentations

Monday, 26 June 2017, 10:00 – 11:00; Room: SALA D'ACTES. Opening Speech

PROF. PETER W. CARLS: Last six decades of conodonts, problems, and solutions for late Silurian and Lower Devonian Stratigraphies and Correlations.

Monday, 26 June 2017, 11:45 – 12:15; Room: SALA D'ACTES

PROF. JAMES F. MILLER: Upper Cambrian to Lower Ordovician conodont research in southern Laurentia, 1933–2017: Branson & Mehl, Furnish, Müller, Miller, Ethington & Clark, and Repetski.

Tuesday, 27 June 2017, 11:30 – 12:00; Room: SALA D'ACTES

PROF. MARK. A. PURNELL: Conodont skeletal anatomy and apparatus complexity through time.

Thursday, 29 June 2017, 09:15 – 09:45; Room: SALA D'ACTES

PROF. JOSÉ I. VALENZUELA-RÍOS: The role of conodonts in building standards of reference for expressing the history of Earth: the Givetian (Middle Devonian) example.

Friday, 30 June 2017, 10:00 – 10:30; Room: SALA D'ACTES

PROF. CHARLES M. HENDERSON: The nature of Permian to Lower Triassic conodont biostratigraphy.

Friday, 30 June 2017, 15:30 – 16:30; Room: SALA D'ACTES. Closing Speech

PROF. MANUEL RIGO: What did really kill conodonts?.

Business Meetings

Tuesday, 27 June 2017, 10:00 – 11:00; Room: SALA D'ACTES.

International Subcommission on Silurian Stratigraphy (ISSS). Chairman Peter Štorch.

Tuesday, 27 June 2017, 15:00 – 17:00; Room: SALA D'ACTES.

Pander Society. Chairman Prof. Xulong Lai

Thursday, 29 June 2017, 15:00 – 17:00; Room: SALA D'ACTES.

International Subcommission on Devonian Stratigraphy (SDS). Chairman John Marshall. Secretary Ladislav Slavík.

Social Event

Thursday, 29 June 2017, 19:30 – 23:00; Masia de Xamandreu. Bétera

Pander Official Dinner: 50th Anniversary of the Pander Society. *Masia de Xamandreu*: A 19th century country house in Valencia.

SUNDAY, JUNE 25TH Evening

Expected 17:00 -18:00	Arrival pre-conference fieldtrip participants at the Campus of Burjasot
19:30 – 20:30	Registration on site. Faculty of Biology, Block A. Campus of Burjasot. University of Valencia (see map)
20:30 – 22:30	Welcome to the participants



MONDAY, JUNE 26TH

08:30	Registration on site. Main Library: Biblioteca de Ciències "Eduard Boscà". Campus Burjasot
09:30	Opening Ceremony. Room: SALA D'ACTES
10:00 -11:00	Opening speech by the honoured Prof. Peter Carls. TU-Braunschweig, Germany. LAST SIX DECADES OF CONODONTS, PROBLEMS, AND SOLUTIONS FOR LATE SILURIAN AND LOWER DEVONIAN STRATIGRAPHIES AND CORRELATIONS.
11.15 – 11.45 am	Pause cafe. Poster session
<i>THE RISE OF CONODONTS PRIOR TO AND DURING THE GREAT ORDOVICIAN BIODIVERSIFICATION EVENT. IGCP 653 SESSION</i> Chaired by Ian Percival and Yong Yi Zhen. Room: SALA D'ACTES	
11:45	UPPER CAMBRIAN TO LOWER ORDOVICIAN CONODONT RESEARCH IN SOUTHERN LAURENTIA, 1933–2017: BRANSON & MEHL, FURNISH, MÜLLER, MILLER, ETHINGTON & CLARK, AND REPETSKI. James F. Miller. Keynote
12:15	TOWARDS A MORE PRECISELY DEFINED CAMBRIAN/ORDOVICIAN BOUNDARY IN AUSTRALIA. Yong Yi Zhen ¹ , I.G. Percival ¹ and B.D. Webby ²
12:30	UPPER CAMBRIAN FAUNAS AND BIOSTRATIGRAPHY FROM EASTERNMOST ALASKA. John E. Repetski, ¹ J.F. Taylor, ² J.V. Strauss, ³ and J.T. Kulenguski ⁴
12:45	LARAPINTINE SEAWAY ACROSS AUSTRALIA DISPROVED BY EARLY ORDOVICIAN CONODONT DISTRIBUTION. Yong Yi Zhen ¹ , I.G. Percival ² , L. Normore ³ and Louisa Dent ⁴
13:00	BALTOSCANDIAN CONODONT DIVERSITY (UPPER TREMADOC AND MIDDLE ORDOVICIAN) COMPARED TO GOBE. Sven Stouge ¹ , G. Bagnoli ² , X. Jing ³ , R. Wu ⁴ and J.A. Rasmussen ⁵
13:15	NEW TAXONOMICAL INSIGHTS ON THE CONODONT GENUS <i>LENODUS</i> (LOWER DARRIWILIAN) FROM THE PRECORDILLERA, SAN JUAN, ARGENTINA. Ana Mestre ¹ and S. Heredia
13:30 – 14:45	Lunch Pause. Cafeteria Campus Burjasot
15:00	CONODONT $\delta^{18}\text{O}$ PALAEOETHERMOMETRY FROM CONJUGATED MARGINS OF THE SOUTHERN IAPETUS OCEAN DURING THE ORDOVICIAN PERIOD: A STORY OF DRIFTING? G. L. Albanesi ¹ , Christopher R. Barnes ² , S. M. Bergström ³ , I. S. Williams ⁴ , and J. A. Trotter ⁵ .
15:15	MIDDLE-UPPER ORDOVICIAN CONODONTS FROM THE FFAIRFACH AND GOLDEN GROVE GROUPS IN SOUTH WALES, UNITED KINGDOM. Analissa Ferretti ¹ and S.M. Bergström ²
15:30	THE DARRIWILIAN CONODONT BIOSTRATIGRAPHY FROM THE ARGENTINE PRECORDILLERA Susana Heredia ¹ , A. Mestre ¹ and C. Kaufmann ²
15:45	INTEGRATING ORDOVICIAN CONODONT STRATIGRAPHIC RANGE DATA AND OTHER FOSSILS MORE COMMON IN CARBONATE FACIES: A PLAN FOR THE ORDOVICIAN GEOLOGIC TIME SCALE 2020. Stephen A. Leslie ¹ , D. Goldman ² , P.M. Sadler ³ and R. A. Cooper ⁴

MONDAY, JUNE 26TH

<i>SILURIAN INTEGRATED STRATIGRAPHY: CONODONT, GRAPTOLITES, BRACHIOPODS FAUNA AND ISOTOPE ANALYSIS</i>	
Chaired by Peter Štorch and Ladislav Slavík. Room: SALA D'ACTES	
16:00	LATE ORDOVICIAN-LATE SILURIAN CONODONT BIOSTRATIGRAPHY AND BIOEVENTS, FROM BOTH SHELF AND SLOPE FACIES, CANADIAN ARCTIC ISLANDS, WITH IMPLICATIONS FOR REGIONAL STRATIGRAPHY, TECTONICS AND EUSTASY. S. Zhang ¹ , D.M.S. Jowett ² , K. Mirza ³ , and Christopher R. Barnes ³
16:15	UPDATED LLANDOVERY (SILURIAN) CONODONT PROVINCIALISM BASED ON QUANTITATIVE ANALYSIS. Zhongyang Chen ¹ , P. Männik ² and J. X. Fan ³
16:30	THE PRELIMINARY REPORT ON THE INTEGRATED STRATIGRAPHY OF THE LUDLOW IN THE BAUBLIAI – 2 WELL (WEST LITHUANIA). Sigitas Radzevičius ¹ , A. Ekleris ¹ , R. Budginas ¹ , L. Ainsaar ² , T. Meidla ² , and A. Spiridonov ¹
16:45	BIOTIC RESPONSE TO LATE HOMERIAN ENVIRONMENTAL CRISIS: LUNDGRENII EXTINCTION EVENT AND SUBSEQUENT RECOVERY IN THE PRAGUE SYNFORM, CZECH REPUBLIC. Peter Štorch ¹ and Š. Manda ²
17:00 – 18:00	Poster session. Refreshing pause

TUESDAY, JUNE 27TH

9:00 - 10:00	Registration on site. Main Library: Biblioteca de Ciències "Eduard Boscà". Campus Burjasot
<i>SILURIAN INTEGRATED STRATIGRAPHY</i> (continued session). Peter Štorch and Ladislav Slavík. Room: SALA D'ACTES	
9:00	LATE SILURIAN AND EARLY DEVONIAN BIOEVENTS AND CONODONT BIOSTRATIGRAPHY IN THE PRAGUE SYNFORM. Ladislav Slavík
9:15	CONODONTS ACROSS THE SILURIAN/DEVONIAN BOUNDARY IN THE CARNIC ALPS (ITALY-AUSTRIA). Carlo Corradini ¹ and M.G. Corrigan ²
9:30	CONODONTS OF FAMILY SPATHOGNATHODONTIDAE FROM THE SILURIAN/DEVONIAN BOUNDARY, PRAGUE SYNFORM. Aneta Hušková ¹ and L. Slavík ²
9:45 – 11:00	ISSS business meeting. Room: SALA D'ACTES
11:00 – 11:30	Pause cafe. Poster session

TUESDAY, JUNE 27TH

GECKO: GLOBAL EVENTS IMPACTING CONODONT EVOLUTION.	
Annalisa Ferretti, A. Bancroft and John Repetski. Room: SALA D'ACTES	
11:30	CONODONT SKELETAL ANATOMY AND APPARATUS COMPLEXITY THROUGH TIME. Mark. A. Purnell. Keynote
12:00	EARLY AND MIDDLE ORDOVICIAN CONODONT EVENTS OF BALTO-SCANDIA. Sven Stouge ¹ and G. Bagnoli ²
12:15	INTEGRATING CONODONT TURNOVER, CARBON ISOTOPIC EXCURSIONS AND THE OCEANIC EVENTS IN THE LUDLOW OF THE SOUTHEASTERN BALTICA (MILAIČIAI-103 CORE, LITHUANIA). Andrej Spiridonov ^{1*} , T. Gečas ¹ , R. Stankevič ¹ , T. Šilinskas ¹ , T. Meidla ² , L. Ainsaar ² , A. Brazauskas ¹ , P. Musteikis ¹ , S. Radzevičius ¹
12:30	LATE DEVONIAN CONODONTS FROM THE SHALLOW SHELF STRATA OF THE BROKEN RIB AND COFFEE POT MEMBERS, DYER FORMATION, CHAFFEE GROUP, COLORADO. D. Jeffrey Over ¹ , M. Bates ¹ , Z. Wistort ¹ , J. Chiarello ¹ , H. Horner ¹ , J. Hagadorn ² , L. Soar ² , J. Bullocks ² , and P. Emsbo ³
12:45	THE LAST PHASE OF CONODONT EVOLUTION: INTEGRATING BIOSTRATIGRAPHIC AND PHYLOGENETIC APPROACHES Manuel Rigo ^{1,2} , A. Cau ³ , V. Karádi ⁴ , M. Mazza ⁵
13:00	MINERALOGICAL CHARACTERIZATION OF APATITE BIOMINERALS: PRELIMINARY RESULTS. L. Medici ¹ , Annalisa Ferretti ² , D. Malferrari ² , B. Cavalazzi ³ and M. Savioli ²
13:15	SIMILARITY AND DIFFERENCES OF MORPHOLOGICAL FEATURES OF PROTO- AND EUCONODONT ANIMALS. Galina Guravskaya ¹ and A. Kassatkina
13:30 – 14:45	Lunch Pause. Cafeteria Campus Burjasot
15:00 – 17:00	Pander business meeting. Room: SALA D'ACTES
17:00 – 18:00	Poster session. Refreshing pause

WEDNESDAY, JUNE 28TH

Mid-conference fieldtrip: The Palaeozoic rocks of the Iberian Range.

Departure: **in front of the main entry** (bus stop), Campus of Burjasot. Time: **07:00 am**.



THURSDAY, JUNE 29TH

<i>LOWER AND MIDDLE DEVONIAN: HIGH-RESOLUTION BIO-CHRONOSTRATIGRAPHY, REGIONAL CORRELATION AND GLOBAL EVENT STRATIGRAPHY.</i> Sofie Gouwy and Teresa Liao. Room: SALA D'ACTES	
09:00	PRELIMINARY MORPHOLOGICAL ANALYSIS OF <i>POLYGNATHUS PIRENEAE</i> FROM SOUTH CHINA. Jianfeng Lu ¹ , J. I. Valenzuela-Ríos ² , Y. Wang ¹ , J. -C. Liao ² and X. Q. Chen ¹
09:15	THE ROLE OF CONODONTS IN BUILDING STANDARDS OF REFERENCE FOR EXPRESING THE HISTORY OF EARTH: THE GIVETIAN (MIDDLE DEVONIAN) EXAMPLE. J.-C. Liao and J.I. Valenzuela-Ríos. Keynote
09:45	THE PAST, PRESENT AND FUTURE OF THE UPPER EIFELIAN CONODONT ZONATION. Katarzyna Narkiewicz ¹ , M. Narkiewicz ¹ , Pierre Bultynck ² , Peter Königshof ³
10:00	MIDDLE DEVONIAN BIOEVENTS FROM MARHOUMA SECTION (SAOURA, ALGERIA). R. Tandjaoui-Arif ¹ , Carine Randon ² , A. Ouali-Mehadji ¹ and S. Maillet ³
10:15	BIOSTRATIGRAPHY AND SEQUENCE STRATIGRAPHY OF THE MIDDLE DEVONIAN (GIVETIAN) IN CENTRAL KENTUCKY, USA. Carlton E. Brett ¹ , J. J. Zambito ² , G. C. Baird ³ , Z. S. Aboussalam ⁴ , R. T. Becker ⁴ , A. J. Bartholomew ⁵
10:30	A NEW ASSESSMENT OF THE MIDDLE AND UPPER DEVONIAN CONODONT BIOSTRATIGRAPHY OF THE HORN RIVER GROUP IN THE POWELL CREEK REFERENCE SECTION (NORTHERN MACKENZIE MOUNTAINS, NWT, CANADA). Sofie A. Gouwy & T. T. Uyeno
10:45	CONODONT BIODIVERSITY ANALYSIS FROM THE MIDDLE AND UPPER DEVONIAN OF THE SPANISH CENTRAL PYRENEES J. -C. Liao and J. I. Valenzuela-Ríos
11:00 – 11:30	Pause cafe. Poster session
<i>DEVONIAN GLOBAL EVENTS, ENVIRONMENTS AND TIME.</i> John Marshall and Carlton Brett. Room: SALA D'ACTES	
11:30	CONODONT DATING OF REEF DROWNING AND EXTINCTION IN THE HÖNNE VALLEY (NORTHERN RHENISH MASSIF, GERMANY). Soren Stichling, R.T. Becker, S. Hartenfels and Z.S. Aboussalam
11:45	HIGH FRASNIAN CONODONTS FROM THE PIPE CREEK SHALE AND CANASERAGA SANDSTONE, JAVA GROUP, UPPER DEVONIAN, WESTERN NEW YORK. D. Jeffrey Over ¹ , Ezekiel McGinn ¹ , Mary Kosloski ² , Jed Day ³ and Andrew Bush ⁴
12:00	THE FRASNIAN-FAMENNIAN BOUNDARY IN VIETNAM AND EVOLUTIONARY MEANING OF FADS AND LADS. Jerzy Dzik ¹ and N. Duc Phong ²
12:15	A NEW APPROACH TO MIDDLE FAMENNIAN CONODONT BIOFACIES (UPPER BALLBERG QUARRY, NORTHERN RHENISH MASSIF). Felix Lüddecke, S. Hartenfels and R. T. Becker
12:30	THE IMPACT OF RE-SAMPLING ON CONODONT ABUNDANCE, PALAEOBIODIVERSITY, BIOFACIES, AND STRATIGRAPHIC ANALYSIS – TWO FAMENNIAN CASE STUDIES. P. Herbers, R. Thomas Becker and S. Hartenfels

THURSDAY, JUNE 29TH

<i>CARBONIFEROUS CONODONT STRATIGRAPHY, SEDIMENTOLOGY AND TECTONOTHERMAL ANALYSIS</i>	
Carlo Corradini. Room: SALA D'ACTES	
12:45	RECENT ADVANCES ON CONODONT BIOSTRATIGRAPHY IN SONORA, NW MEXICO. Pilar Navas-Parejo
13:00	LATE DEVONIAN – EARLY CARBONIFEROUS CONODONTS FROM THE NORTHEASTERN SIBERIA, ARCTIC RUSSIA. Nadya G. Izokh
13:15	STUDY PROGRESS ON THE CANDIDATE GSSP OF THE VISEAN-SERPUKHOVIAN BOUNDARY IN SOUTH CHINA. Yuping Qi ¹ , Xiangdong Wang ¹ , Tamara I. Nemyrovska ² , Jitao Chen ¹ , Qiulai Wang ¹ and Keyi Hu ¹
13:30	MID-CARBONIFEROUS CONODONTS AND THEIR EVOLUTION: NEW EVIDENCES FROM LUODIAN, SOUTH CHINA. Keyi Hu and Y. P. Qi
13:45 – 15:00	Lunch Pause. Cafeteria Campus Burjasot
15:15 – 17:00	SDS business meeting. Room: SALA D'ACTES
17:00 – 18:00	Poster session. Refreshing pause
	Free time
19:30 – 23:00	Official Pander Dinner. <i>Masia de Xamandreu</i> . Valencia. Meeting point: in front of the main entry (bus stop). Campus Burjasot

FRIDAY, JUNE 30TH

<i>PERMIAN TO TRIASSIC CONODONTS: BIOSTRATIGRAPHY, ISOTOPES AND GEOCHEMISTRY.</i>	
Charles Henderson and Manuel Rigo. Room: SALA D'ACTES	
9:30	THE NATURE OF PERMIAN TO LOWER TRIASSIC CONODONT BIOSTRATIGRAPHY. Charles M. Henderson. Keynote
10:00	THE INDIAN CONODONT RECORD AT GURYUL RAVINE SECTION (KASHMIR, INDIA) AND ITS CONSEQUENCES FOR THE GRIESBACHIAN-DIENERIAN BOUNDARY. Morgane Brosse ^{1*} , H. Bucher ¹ , M. Leu ^{1,2} , N. Goudemand ^{1,2}
10:15	INDIAN-OLENEKIAN BOUNDARY CONODONTS FROM OMAN. Nicolas Goudemand ¹ , L. Souquet ¹ , A. Baud ² , R. Jattiot ³ , H. Bucher ³
10:30	VARIABILITY OF LATE PALEOZOIC AND TRIASSIC CONODONT FAUNAS IN THE CACHE CREEK TERRANE OF WESTERN CANADA Martin L. Golding

10:45	EARLY TRIASSIC CONODONT ZONATION OF SLOVENIA. Tea Kolar-Jurkovšek and B. Jurkovšek
11:00 – 11:30	Pause cafe. Poster session
11:30	IMPACT EVENT AND CONODONT FAUNAL TURNOVER ACROSS THE MIDDLE-UPPER NORIAN TRANSITION IN THE UPPER TRIASSIC OF JAPAN. Tetsuji Onoue ¹ , H. Sato ² and D. Yamashita ¹ .
11:45	INTEGRATED BIO-MAGNETOSTRATIGRAPHY OF AN UPPER TRIASSIC PELAGIC SEQUENCE FROM PANTHALASSA OCEAN. Daisuke Yamashita ¹ , K. Uno ² and T. Onoue ¹
<i>RECENT ADVANCES IN CONODONT PALAEOBIOLOGY.</i> Carlos Martínez-Pérez and Phillip C. J. Donoghue. Room: SALA D'ACTES	
12:00	INTRASPECIFIC VARIATION AND EVOLUTIONARY TRENDS IN TWO CONODONT LINEAGES. Louise Souquet ¹ , P. Guenser ¹ and N. Goudemand ¹
12:15	CONTRASTING SIZE TRENDS IN CONODONTS DURING THE SMITHIAN-SPATHIAN BOUNDARY EXTINCTION. Marc Leu ¹ , H. Bucher ¹ , N. Goudemand ²
12:30	SILURIAN CONODONT DIVERSITY: BEYOND THE ABIOTIC PARADIGM. Emilia Jarochovska ¹ , R. Nawrot ² , and P. Männik ³
12:45	SYNCHROTRON TOMOGRAPHY-BASED FUNCTIONAL ANALYSIS OF P₁ ELEMENTS OF THE <i>EPIGONDOLELLA-MOCKINA</i> LINEAGE. Carlos Martínez-Pérez ^{1,5} , H. Algora ¹ , M. Rigo ² , M. Mazza ³ , N. Goudemand ⁴ , and P. C. J. Donoghue ⁵
13:00	CONODONT AFFINITY – THE ULTIMATE PARLOR GAME. Philip C. J. Donoghue ¹ , M. A. Purnell ² , S. E. Gabbot ² , R. J. Aldridge ² , M. Paul Smith ³ and I. J. Sansom ⁴ .
13:30 – 15.00	Lunch Pause. Cafeteria Campus Burjasot
15:30 - 16.30	Closing speech by Dr. Manuel Rigo. Title: WHAT DID REALLY KILL CONODONTS? Room: SALA D'ACTES
16:30 – 17:30	Refreshing pause

SATURDAY, JULY 1ST

Departure of the post-conference fieldtrip participants.

POSTERS

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Useful conference information

The conference fee for the participants (**regular “R” and student “ST”**) includes participation in the meeting, name badge, congress program, electronic abstract volume, ice-breaker party (Sunday, June 25), coffee-breaks and lunches (Monday, June 26 – Friday, June 30, except for Wednesday, June 28) and the Pander Official Dinner (Thursday, June 29).

The conference fee for the **accompanying person “AFP”** includes participation in the meeting, name badge, congress program, ice-breaker party (Sunday, June 25), coffee-breaks and lunches (Monday, June 26 – Friday, June 30, except for Wednesday, June 28) and the Pander Official Dinner (Thursday, June 29).

Each registered participant will have a ticket lunch for each day.

Not registered AFP who wishes to participate in the Pander Official Dinner should pay an additional fee in the registration site by Tuesday, June 27 before 14:00 hs.

The city of Valencia - Essential information

Valencia is the third largest city of Spain, located in the Mediterranean coast and is well connected by plane (with three local airports Valencia, Alicante and Castellón) and by high-speed trains with Madrid, Barcelona and Alicante. The airport is 10 km west of the city centre. Budget flights serve major European cities. The airport is connected to downtown by metro (lines 3 and 5).

If you travel by train from Madrid, Alicante or Barcelona, all fast trains use the **Valencia Joaquin Sorolla** new station, 800 m south of the old town. It's linked with nearby **Estación del Norte**, 500 m away, by free shuttle bus. Once you are at the old station, go directly to *Plaza España* metro stop. Other option is *Jesus* metro stop, 250 m in walking distance to west.

If you travel by bus from Madrid, **AVANZA** company operates hourly bus services (€29.75, four hours trip). **ALSA** company has up to 10 daily buses (€29 to €35, four to five hours trip). They end in the **Bus station** (close to *Turia* metro stop).

Campus Burjasot is located to the north-west of the city centre and is connected by metro lines 1 and 2 (from *Plaza España/ À. Guimerà/ Turia* to *Empalme* stop) and by tram line 4 (from *Empalme* to *Vicente Andrés Estellés* stop). Buy a Bonometro (about 8.20 €/10 trips) at major stations or buy a single ticket (1.50 €).

AVE fast train (www.renfe.es); AVANZA (www.avanzabus.com); ALSA (www.alsa.es)

Metro (www.metrovalencia.es)

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