



Toulouse France

GeoTolosa

2025

News from
the Paleozoic Worlds

20th ICCP International Congress on the
Carboniferous and Permian

VARISCAN MEETING 2025

From the mantle to the biosphere

23 - 27 June 2025

Université de Toulouse, France



Scientific Program



THE GEOTOLOSA2025 - TIMETABLE : AN OVERVIEW

<i>What?</i>	<i>When?</i>	<i>Where?</i>
Start registration and check-in	Monday 23 rd , 15:00	Welcome Desk, Central Hall, Main University Building
Welcome and Icebreaker party	Monday 23 rd , 18:00	Central Hall Main University Building
Opening ceremony	Tuesday 24 th , 9:00	Auditorium Marthe Condat Main University Building
Plenary lectures	Tuesday 24 th , 9:45 Wednesday 25 th , 10:30 Thursday 26 th , 10:30	Auditorium Marthe Condat Main University Building
Morning scientific sessions	Tuesday 24 th , Wednesday 25 th , Thursday 26 th , Friday 27 th	Auditorium Marthe Condat Main University Building, Amphithéâtre Maxwell Building 3TP2
Afternoon scientific sessions	Tuesday 24 th , Wednesday 25 th , Thursday 26 th	Auditorium Marthe Condat Main University Building, Amphithéâtre Maxwell Building 3TP2
Poster sessions	Tuesday 24 th , Wednesday 25 th , Thursday 26 th , Friday 27 th	Central Hall Main University Building
Conference photo/Flash mob	Tuesday 24 th , 13:15	Central Hall Main University Building
Meeting Subcommittee on Carboniferous Stratigraphy	Tuesday 24 th , 17:15-18:15	Auditorium Marthe Condat Main University Building,
Meeting Subcommittee on Permian Stratigraphy	Wednesday 25 th , 16:45-17:45	Auditorium Marthe Condat Main University Building
Gala Dinner	Wednesday 25 th , 19:00-23:00	Hotel Dieu City Center
Meeting Subcommittee on Devonian Stratigraphy	Thursday 26 th , 17:15-18:15	Auditorium Marthe Condat Main University Building
Workshop One Stratigraphy	TBA	TBA
Discussion Geosciences and Society	Thursday 26 th , 17:15-18:15	Amphithéâtre Maxwell Building 3TP2
Closing Ceremony	Friday 26 th , 13:30-14:00	Auditorium Marthe Condat Main University Building

THE GEOTOLOSA2025-DETAILED PROGRAM

Monday, 23rd

15:00 Start registration and check-in, Welcome Desk, Central Hall, Main University Building

18:00- 19:30 Welcome and Icebreaker party, Central Hall, Main University Building

Tuesday, 24th

8:00	Registration and check-in Welcome Desk, Central Hall, Main University Building	
8:00	Coffee <i>Central Hall, Main University Building</i>	
	Auditorium Marthe Condat Main University Building	Amphithéâtre Maxwell Building 3TP2
9:00	Opening ceremony	
	Plenary Lecture	
9:45	Gerilyn S. Soreghan: The Capital of Dust: Formation and Importance of Dust in Deep Time	
10:45	Coffee <i>Central Hall, Main University Building</i>	
	Session C1: Geodynamics 1: Paleogeography, tectonics and sedimentary basins	Session B2: Stratigraphic subdivision of the Carboniferous and its paleontological content
11:15	Moreira N., Roseiro J., Nogueira P.: Architecture of a (deformed) rift-related basin: new insights about the Cambrian rifting process on the Ossa-Morena Zone	Richards B., Wall C.: Devonian- Carboniferous transition in the Western Canada Sedimentary Basin
11:30	Maars J., Vis G-I., Houben A., Ventra D., De Boever E., Vink B., Waldvogel M., Abels H., Martinius A., Gauffriau A.: Signs for the onset of Variscan orogeny in drill cores for the Einstein Telescope site investigation north of the Ardennes massif	Sanz-López J., Nikolaeva S.V., Zhuravlev A.V., Blanco-Ferrera S.: Co-occurrence of the Pennsylvanian conodont <i>Declinognathodus</i> with Serpukhovian ammonoids in the Mid-Carboniferous marine crisis Episode
11:45	Kroner U., Fazlikhani H.: From an intracontinental transform plate boundary zone to a transpressional belt – The Saxo- Thuringian and the Rheno-Hercynian Zones of the Central European Variscides.	Wang Q., Qi Y., Yao L.: Middle Visean (Mississippian) conodonts from shallow- water deposits in the Yashui section, Guizhou, South China, and their stratigraphic significance

12:00	Cochelin B.R., Gumiaux C., Cagnard F., Bitri A.: Deconvolution of the finite strainfield from the western French Massif Central: implications on the exhumation of HP rocks and Variscan geodynamics	Li L., Wang XD., Yao L.: Morphological variations of rugose coral Keyserlingophyllum from Baoshan, Southwestern China and their palaeoecological implications
12:15	Christophoul F., Aretz M.: Tectonic and sedimentary evolution of the Decazeville stephanian basin (french Massif Central)	Sheng Q., Chen J., Wang XD., Brenckle P.: Recent advances in the study of Mississippian foraminifers and algae in China and the USA

Lunch & Poster
Central Hall, Main University Building

	Session C1: Geodynamics 1: Paleogeography, tectonics and sedimentary basins	Session B2: Stratigraphic subdivision of the Carboniferous and its paleontological content
13:45	Ballèvre M.: Non-marine bivalves as a proxy for the growth and collapse of the Variscan belt (Carboniferous - early Permian)	Cíglér V., Kumpan T.: Lower Tournaisian Conodont Stratigraphy in the Moravosilesian Basin (Czechia) and New Insights into Lower Tournaisian Conodont Evolution
14:05	Santos Barros I.: Permian tectonostratigraphy of Timor-Leste: an update	Laville T., Haug J.T., Haug C.: <i>Pygocephalus cooperi</i> Huxley, 1857 revealed by X-ray micro-tomography: implications for the phylogenetic affinities of Pygocephalomorpha
14:20	Cocco, F.: Structural setting, tectonic evolution and geodynamic context of the Ordovician stratigraphic successions in southern Sardinia	Sanz-López J., Nikolaeva. S.V., Blanco-Ferrera S.: New findings of Arnsbergian conodonts from the Cantabrian Mountains and the correlation of the GSSP of the mid-Carboniferous boundary
14:35	Moreira N., Machado G., Silvério G., Neto De Carvalho C.: Devonian-Carboniferous syn-orogenic sedimentation on SW domains of the Ossa-Morena Zone: implications for the evolution of Variscan Orogeny	Izart A., Opluštil S. Knight J., Barbarand J., Michels R., Pellenard P., Blaise T., Laurin J., Schmitz M., Alvarez-Vazquez C.: Reassessment of the Pennsylvanian bio- and chronostratigraphy of the Saar-Lorraine, Cévennes and Saint-Etienne basins using high-precision U-Pb ages of volcanic ashes
14:50	Dias R., Araújo A., Couto H., Cruz C., Ferreira J.A., Gonçalves A.M., Lima A., Lopes L., Moreira N., Nogueira P., Noronha F., Pedro J., Ribeiro Maria Dos Anjos, Roseiro J., Santovaia H., Tereso V.: Strain partitioning in transpression; a major feature in the evolution of the Ibero-Moroccan Variscides	Huang X., Hu K., Wang Q., Qi Y., Wang XD., Wang Y.: Late Pennsylvanian fusuline succession from the slope facies in South China and its significance for the candidate GSSPs
15:05	Gremmel J., Duclaux G., Bosse V., Corsini M.: Transtensional deformation: the key to explaining Variscan orogenic collapse? An example from the Maures-Tanneron Massif (SE France)	Aretz M., Corradini C.: Moving forward with the redefinition of the Devonian/Carboniferous Boundary

15:20

Coffee & Poster
Central Hall, Main University Building

	Session C1: Geodynamics 1: Paleogeography, tectonics and sedimentary basins	Session A1: Reading the sedimentary record - environments, facies and basin analysis
15:50	Xu H., Zhang Y., Yuan D., Shen S.: Quantitative palaeobiogeography of the Cisuralian brachiopod faunas in the Tethys: Implications of allometric drifting of Cimmerian blocks and opening of the Meso-Tethys Ocean	Yan Z., Jin X., Huang, H., Zheng J.: Wuchiapingian microbialites following the Middle Permian (Capitanian) mass extinction: A case study from the Changning- Menglian Belt, western Yunnan, China
16:05	Fazlikhani H., Kroner U., Moorkamp M., Stollhofen H., Koehn D.: Geodynamic evolution of the SW Saxo-Thuringian Zone and its boundaries: A geophysical investigation of the Central European Variscides	Pracht M., Rogers R.: Hyperspectral facies and stratigraphy in boreholes from the lower Carboniferous (Viséan) of Ireland
16:20	Gao B., Chen J.: Provenance analysis of the early Carboniferous strata in South China: implications for paleogeographic change and tectonic setting	Callahan E., <u>Soreghan M.</u> , Soreghan G.: Early Permian Paleogeography of the Anadarko Basin (Oklahoma, USA) Based on Provenance and Sedimentology of the Garber Sandstone
16:35	Chardon D., Aretz M., Berger J., Baraille J.: Tectonics of the southern French Variscan foreland revisited	Nardin E., Moynier L., Chavagnac V., Saillol M., Aretz M., Delacour A., Denayer J.: Mud mounds or not mud mounds? That is the question for the early Devonian red marbles of the Minervois (France)
16:50	Zhang Y., Shen S., Zhang Y., Yuan D., Xu H., Ju Q., Li X.: Evolution of the Paleotethys Ocean in northern Tibet: evidences from stratigraphy and paleobiogeography	

17:05

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18:30

Poster & Drinks
Central Hall, Main University Building

17:15	Subcommission on Carboniferous Stratigraphy	
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18:15		

Wednesday, 25th

8:00 Opening Welcome Desk, Central Hall, Main University Building

8:00 **Coffee**
Central Hall, Main University Building

	Auditorium Marthe Condat Main University Building	Amphithéâtre Maxwell Building 3TP2
	Session B1: Life and Bioevents during Devonian time	Session C1: Geodynamics 1: Paleogeography, tectonics and sedimentary basins
8:30	Ernst A.: Bryozoan fauna from the Birdsong Shale (Ross Formation, Lower Devonian), Tennessee, USA	
8:45	Denayer J., Aretz M.: A surprisingly diverse coral fauna from the Emsian (Lower Devonian) of the Mouthoumet massif, SW France and re-assessment of the age and affinity of the Pech Nègre Limestone	Tual L., Authemayou C., Lotout C., Smit M.A., Musiyachenko K., Bussien Grosjean D., Kooijman E., Bruand E.: The eclogite-bearing Léon dome: a poorly-known piece of the NW Variscan geopuzzle
9:00	Jansen U.: Brachiopods, stratigraphy and bioevents near the traditional basal Emsian boundary (Rhenish Massif, Germany)	Baraille J., Chardon D., Berger J., Gumiaux C.: Early to late Variscan collisional strain field in the Southwestern French Massif Central: kinematic reappraisal
9:15	Slavik L., Weinerová H., Weiner T., Hladil J.: Pragian-Emsian sections in the Prague Synform – their aspects and questions of stratigraphic correlation	Rosignol C., Logghe A., Luccisano V., Shi X., Cogné N., Pujol M., Pradel A., Bourquin S., Pillola G. L., Botella H., Cocco F., Loi A., Fois D., Stara P., Sanciu L.: New age constraints for the Perdas-defogu Basin, Italy: implications for early Permian vertebrate palaeobiogeography and Variscan Belt dynamics
9:30	Saillol M., Nardin E., Aretz M.: Early Devonian reefs of the South European Archipelago – how local factors provide sub-optimal habitats for reef development	Martínez Catalán J.R., Barros Xose C., Vila Anca R., Ballesteros D., Castro González R.: The folded Paleozoic sequence of the Courel Mountains (Galicia, Spain) and the UNESCO Global Geopark Montañas do Courel
9:45	Yin J., Slavík L., Zong R., Gong Y.: Silurian–Devonian Boundary in Northern Xinjiang, NW China	Zheng J.: Paleogeographic insights into the extensive Paleo-Tethys during the Early-Middle Permian: Evidence from radiolarians and detrital zircons in the Changning-Menglian Belt, Western Yunnan, China

10:00

Coffee & Poster
Central Hall, Main University Building

Plenary Lecture

10:30 **Gabriel Gutierrez-Alonso:** Late- or Post-Variscan? Linking magmatism and orogenic curvature in the core of a supercontinent

Session B1: Life and Bioevents during Devonian time

Session E1: Global carbon cycling, paleoclimate changes and marine redox landscape during the late Paleozoic

11:30 Valenzuela Rios J.I., Liao J-C.: Innovation and Radiation Events of Ancyrodelloides in the Spanish Pyrenees; some thoughts for placing the base of the middle Lochkovian (Lower Devonian)

Chen J.: Global Carbon Cycling and Marine Anoxia during the Late Paleozoic Ice Age

11:45 Corrigan M.G., Corradini C., Pondrelli M.: The Lochkovian of the Carnic Alps (Italy and Austria): conodont fauna and biostratigraphic correlations

Zhong Y., Chen J., Li T., Gao B., Chaosheng, Y., Guan Y., Qie, W-K.: Enhanced biological pump after the end-Devonian mass extinction

12:00 Penn-Clarke C., Bamford M., Wagner N., Wellman C., Matlala I.: Earliest coal beds from the Silurian-Devonian Terrestrial Revolution at polar latitudes: Evidence from the Middle Devonian of South Africa

Kumpan T., Cigler V., Fryda J., Damborsky S., Kalvoda J.: Lower Tournaisian Carbon Isotope Stratigraphy in the Moravosilesian Basin, Czechia: Implications for Global Correlation

12:15 Liao J-C., Valenzuela-Ríos J.I.: Did the Global Events have an effect on the Givetian Conodont Bioevents? A study case from the Spanish Pyrenees

Viaretti M., Carniti A.P., Crippa G., Wang W., Wang X.D., Shen S., Angiolini L.: Seasonality variations across the late Visean- Moscovian phases of the Late Palaeozoic Ice Age: insights from brachiopod shell sclerochemistry

12:30

Lunch & Poster
Central Hall, Main University Building

Session B1: Life and Bioevents during Devonian time

Session E1: Global carbon cycling, paleoclimate changes and marine redox landscape during the late Paleozoic

13:45 **Chen Z., Udchachon M., Thassanapak H., Lu J-F., Fang X., Li W., Burrett C.:** Late Silurian and earliest Devonian (Lochkovian) conodonts and co-occurrence faunas from biostromes and mud mounds, Indochina Terrane, NE Thailand

Barney B. B., Sharma A., Nana Yobo L., Li S., Zhang S., Day J.E., Joachimski M.M., Zaton M., Grossman E.L.: Greenhouse to icehouse: A clumped isotope study of the Devonian-Mississippian Climate Transition

14:05 Becker R.T.: Impact of the global Dasberg Crisis on ammonoid diversity in the Anti-Atlas (southern Morocco)

Yang W., Chen J.: Enhanced nitrogen fixation as a result of short-lived global warming and marine anoxia during the Late Pennsylvanian

14:20	Naamdheew C., Penn-Clarke C.: Spatiotemporal distributions of Devonian benthic communities in South Africa	Rossignol C., <u>Bourquin S.</u> , Cogné N., Poujol M., Shi X., Loi A.: Climates evolution at the Carboniferous-Permian transition in northern Gondwana
14:35	Jin X., Corradini C., Spalletta C.: First Discovery of the Frasnian-Famennian (F-F) Boundary with Black Shale Deposition in the Carnic Alps, Italy	Yue C., Chen J., Zheng W., Xu G., Gao B., Zhang H., Wang XD., Shen S.: Mercury isotope evidence for volcanic activities driving the Artinskian Warming Event and deglaciation of LPIA
14:50	Marshall J., Astin T., Tel'nova O.P, Gaca P.: Terrestrial palaeoclimate, mercury, atmospheric CO ₂ and land plants through the Late Devonian mass extinction	Newby S., Mckenzie R., Udchachon M., Trakuweerayut K.: Investigating the weathering response of the terminal Late Paleozoic Ice Age through isotopic studies of Thailand carbonate successions

15:05
Coffee & Poster
Central Hall, Main University Building

	Session B1: Life and Bioevents during Devonian time	Session A1: Reading the sedimentary record - environments, facies and basin analysis
15:35	Wichern N., Bialik O., Becker T., DeVleeschouwer D.: Climate and weathering trends on astronomical timescales in the run-up to Late Devonian anoxic bioevents	Carniti A.P., Guido A., Wang XD., Yao L., Shen S., Angiolini L.: Origin and role of the micrite in the Mississippian mud mounds: a basis for a reclassification of Mississippian buildups
15:55	Gouwy S.: The Carcajou "Marker" in the Middle Devonian of NW Canada and the importance of biostratigraphy	Baucon A., Trümper S., Morelli C., Neto De Carvalho C., Kustascher E.: From the Permian to Mars: Fluvial Microbial Biosignatures in the Bolzano Supervolcano and their astrobiological potential
16:10	Barrera-Lahoz H., Valenzuela Rios J.I., Liao J.-C.: Upper Frasnian to middle Famennian Global Bioevents in the Compte section (Upper Devonian, Central Spanish Pyrenees)	Guan Y., Chen J., Zhong Y., Gao B., Sheng Q., Qie W.-K.: Sedimentary processes and carbon isotope records during the end-Devonian Hangenberg Crisis
16:25	Klug C., Greif M., El Fassi El Fehri A.: The vertebrate record of the Famennian Fossilagerstätten in the eastern Anti-Atlas (Morocco)	

16:40
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18:00
Poster & Drinks
Central Hall, Main University Building

16:45 – 17:45	Subcommission on Permian Stratigraphy	
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19:00
Gala Dinner (Hôtel Dieu), City Center

Thursday, 26th

8:00	Opening Welcome Desk, Central Hall, Main University Building	
8:00	Coffee Central Hall, Main University Building	
	Auditorium Marthe Condat Main University Building	Amphithéâtre Maxwell Building 3TP2
	Session D1: Mineral and energetic resources	Session B3: Permian biota and stratigraphy
8:45	Ballouard C., Carr P., Monnier L., Fidalgo J.-C., Rocher O., Esteves N., Laurent O., Gérardin M., Plunder A., Mercadier J., Melleton J.: Rare-metal mineralization and crustal magmatism in a collisional orogen: protracted evolution of the Sioule metallogenic zone (Variscan French Massif Central)	Wang Y., Zheng Q., Wu H., Huang X.: Stratigraphic Records of Early Permian Climatic Transition from Icehouse to Greenhouse in South China
9:00	Ramirez-Briones J., Ballouard C., Milesi G., Carr P., Gérardin M., Harlaux M., Laurent O., Plunder A., Melleton J., Vallance J., Mercadier J.: Strike-slip tectonic-driven peraluminous rare-metal magmatism: insights from the late-Variscan Blond granitic complex (French Massif Central)	Spina A., Diez J. B., Rodríguez-Barreiro I., Juncal M., López-Gómez J., Barrenechea J., De La Horra R., Scarani R., Ronchi A.: Filling the gaps: two new palynological associations from the Permian succession of the Pyrenees (Spain)
9:15	Cerny J., Thiele S., Guilcher M., Burisch M., Lehmann U., Kaufmann H., Sonnabend L., Gutzmer J.: Regional-Scale Structural Controls on Late-Variscan Li-(Sn-W) Mineralization in the Bohemian Massif	Kustatscher E., Trümper S., Preto N., Dinelli E., Forte G., Vallé F., Branz R., Lanthaler B., Morelli C.: Side by side with a volcano: a Cisuralian deltaic to lacustrine basin under the effect of volcanic activity
9:30	Gomez Barreiro J., Bermejo D., Ayarza P., Ortega L., Crespo E., Palomeras I., Barrios Sánchez S., Castiñeiras P., Dos Santos Alves K.: Late Variscan orogenic architecture and the generation of strategic mineral resources. An example of the Central Iberian System	Delfosse-Allain M., Branz R., Rodríguez-Barreiro I., Kustatscher E.: The mesoflora of the Kungurians site Gorl from the Southern Alps (Northern Italy)
9:45	Estrade G., Laurent O., Leisen M., Trap P., Carr P., Gérardin M.: Timing and origin of Sn mineralization in the southern Montagne Noire: new in-situ cassiterite U-Pb ages	Zhou W., Wang J.: Earliest stipule structure evolved in Psaroniaceae: evolutionary and ecological implications
10:00	Coffee & Poster Central Hall, Main University Building	

Plenary Lecture		
10:30	Anne-Laure Decombeix: Reconstructing a green Antarctica: Permian polar forests under the microscope	
	Session D1: Mineral and energetic resources	Session B3: Permian biota and stratigraphy
11:30	Boulvais P., Ulrich M., Branquet Y., Le Carlier de Veslud, C., Coutable P., Benedicto A.: Silicification at the unconformity, Lodève Basin, France	Henderson C. M., Angiolini L., Jurikova H., Read M., Beauchamp B., Calvo Gonzalez D., Bratton L., Tierney K.: Latest data to complete a GSSP proposal for the base-Kungurian (Cisuralian/Lower Permian) for the Rockland Section, Nevada, USA
11:45	Rubio T., Benedicto A., Fabre S., Bordenave A., Dorbes H.: Revisiting the mineralogy of multi-metallic indicators in the basement and sedimentary infill of the Permian Lodève Basin	Baucon A., Trümper S., Morelli C., Neto De Carvalho C., Barucci A., Pizzicoli N., Ciacci G., Kustascher E.: Unlocking hot secrets: How AI is revealing the ecology of Europe's Largest Permian Supervolcano
12:00	Ballas G., Coutable P., Lopez M., Moreau F., Le Carlier de Veslud, C., Nichele J., Bernier L., Tanon-Pellissier A., Branquet Y., Boulvais P., Benedicto A.: Tectonic framework and plumbing system of the Lodève Basin: new constrained on the metallogenic models	Rodríguez-Barreiro I., Spina A., Degl'innocenti N., Morelli C., Kustatscher E.: Palynostratigraphy of the Permian Athesian Volcanic District (Southern Alps, Italy)
12:15	Melleton J., Pochon A., Harlaux M., Bailly L., Gourcerol B., Tuduri J., Cagnard F., Plunder A., Cochelin B., Guillou-Frottier L., Picault M.: Critical mineral systems in the French Variscan belt: state of the art and perspectives	Ueno K., Irie T., Charoentitirat T., Sardud A., Saesaengseerung D.: A new Middle Permian fusuline assemblage from the Sibumasu Block, peninsular Thailand: paleobiogeographic characteristics and paleogeographic implication
12:30	Lunch & Poster Central Hall, Main University Building	
	Session D1: Mineral and energetic resources	Session B3: Permian biota and stratigraphy
13:45	Hauville B., Delcourt N.: West European Carboniferous-Permian basins, a favorable setting for helium exploration <i>Presented by De Boisgrollier T.</i>	Henderson C. M., Read M., Angiolini L., Beauchamp B., Waldbott Von Bassenheim D.: Near-global Correlation of the Sakmarian Stage (Cisuralian, Lower Permian): A Case Study
14:05	Fazlikhani H., Bauer W., Stollhofen H., Koehn D.: Permo-Carboniferous granite intrusion and basin development in SE Germany, implications for deep geothermal investigation	Li D., Wan M., Liu L., Hilton J., Wu Y., Wang J.: A pioneering riparian community dominated by gymnosperms from the Guadalupian (middle Permian) of western Henan, North China

14:20	Kabanov P.: Clean energy storage potential (hydrogen, CAES) in salt formations of Western Canada	Fassihi S., Petra H., Azrin A., Hung Yung T., Che Aziz A.: First report of a late Middle Permian (Midian) foraminifera from the eastern Peninsular Malaysia (Indochina Block/East Malaya Block): implications for palaeobiogeography
14:35	Michels R., Pironon J., Barres O., Lorgeoux C., Caumon M.-C., Randi A., Lazerges M., Allouti S., Privalov V., Piedevache M., Hemelsdael R., Forcinal A., Nassif F., De Donato P.: The Lorraine Carboniferous Basin: an unexpected resource for native hydrogen	Ezzahery H., Ghamizi M., Jalil N.E.: Revealing Moroccan Permian Treasures: Comprehensive Insights into vertebrate assemblages
14:50	Salamon M.: From Coal to Green Energy – Carboniferous Rocks and Energy Transition – The importance of Carboniferous stratigraphy and regional geology in North Rhine-Westphalia (Germany)	Spina A., Rettori G., Cirilli S., Ghorbani M., Rettori R.: Palynology and palaeovegetational response to the end-Gualapian extinction event: a case study from Northern Gondwana
15:05	Omodeo Salé S., Eruteya Ovie E., Izquierdo N.J., Makhloufi Y., Moscariello A.: The Permo-Carboniferous Basins in Switzerland, a potential for the energy transition?	
15:20	Coffee & Poster Central Hall, Main University Building	
	Session B1: Life and Bioevents during Devonian time	Session F1: Geoheritage and geo-conservation of the Late Paleozoic
15:50	Yuan Z., Sun Y., Jin X.: Nearshore conodont biostratigraphy at the Frasnian-Famennian transition (Upper Devonian) in western Hubei, South China	(15:50:16:10) Monod B., Baillet L., Christophoul F., Nardin E., Aretz M., Tabuce R., Barraquet-Porte F.: The geoheritage inventory process in Occitanie (southern France): The focus on Devonian to Permian sites
16:05	Song J.: Late Devonian benthic ostracods from South China and their response to the Frasnian–Famennian event	(16:10-16:25) Forke H.C., Schönlaub H.P.: The Geological Heritage of the Carnic Alps – a book presentation
16:20	Liang K.: The last episode of coral-stromatoporoid reef and faunal changes across a Devonian-Carboniferous Boundary section of South China	(16:25-16:45) Baud A., Beauchamp B., Henderson C., Richoz S., Angiolini L.: A world geological Heritage revealed in the Permian successions of Oman
16:35	Luccisano V., Martin Jeremy E., Amiot R., Telouk P., Thibon F., Olive S., Matton O., Lecuyer C.: Using the lithium stable isotopes ($\delta^7\text{Li}$) to reconstruct the environment of the Miguasha stem-tetrapods (late Devonian, Canada)	

16:50	Penn-Clarke C., Vorster C., Harper D.A.T.: Patagonia: Gondwana's "Dark Passenger" during the Devonian. U-Pb detrital zircon geochronology suggests a tectonic cause for Middle Devonian biocrises at high latitudes	
17:05 — 18:30	Poster & Drinks Central Hall, Main University Building	
17:05 — 18:30		Discussion: Geosciences and Society
17:15 — 18:15	Subcommission on Devonian Stratigraphy	

Friday, 27th

8:00 Opening Welcome Desk, Central Hall, Main University Building

8:00

Coffee
Central Hall, Main University Building

Auditorium Marthe Condat Main University Building

Amphithéâtre Maxwell Building 3TP2

	Session B4: Co-evolution of life and environments under high-resolution Pennsylvanian time scale	Session C2: Geodynamics 2: Petrochronology, igneous and metamorphic processes
8:45	Shi Y., Lai M., Fan J., Shen S.: High-resolution morphospecies richness of vascular plants from North China and South China blocks in Carboniferous - Middle Permian	Bosse V., Godard G.: Two metamorphic cycles recorded by monazite in eclogite-facies gneisses (Southern Armorican Massif, France)
9:00	Du N., Zhang Y., Gong E., Lai G.: Construction model and controlling factors of tropical Paleo-Tethys phylloid algal reefs in Pennsylvanian (Kasimovian): A case study in Guizhou, South China	Gonzalez Clavijo E.J., Díez Montes A.: The Quilamas dyke swarm, a feeding system of a Devonian alkaline basic volcanic event in the autochthonous Iberian Variscan Massif. Evidences of the long-lasting North Gondwana rifting.
9:15	Zhang S., Shen S.: Increased turnover rates in fusulinid faunas of the late Paleozoic ice age	Kianguebene - Koussingounina C.E., Ondrejka M., Putiš M., Nemec O., Ružička P.: Variscan granitoids with Cretaceous tectono-metamorphic overprint in the Western Carpathians
9:30	Zhang Y., Lai H., Gong E., Du N.: Annual growth bands in the late Carboniferous reef-building colonial rugose coral <i>Ivanovia</i> and their environmental significance	Bouadani C., Chopin F., Štípská P., Bendaoud A., Fettous E-H., Schulmann K., Míková J., Bouzekria N., Kylander-Clark A., Skrzypek E.: Unraveling the geological history of Lesser Kabylia metamorphic basement (Algeria)
9:45	Hu K., Wang Y., Wang X.D., Peng Y.: The Kasimovian Stage: Bio-environmental events and GSSP	Beauchamp B.: Early Carboniferous Post-Orogenic Collapse and Rifting of the Sverdrup Basin in Arctic Canada

10:00

Coffee & Poster
Central Hall, Main University Building

	Session B4: Co-evolution of life and environments under high-resolution Pennsylvanian time scale	Session C2: Geodynamics 2: Petrochronology, igneous and metamorphic processes
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10:30	Yao L., Wang H., Shi Y., Lin W., Wang Q., Huang X., Qi Y., Wang X.D.: Coral reefs survived from the mid-Carboniferous crisis	Lotout C., Tual L., Bosse V., Couzinié S., Cochelin BR.: Challenges and pitfalls in turning ages into tectono-metamorphic stages: examples from the Variscan orogen
10:50	Wang K., Jiang K., Yang W., Crowley J., Huang X., Wang Q., Peng H., Liu F., Wang J., Wan M.: Middle-Late Pennsylvanian stratigraphy, plant biodiversity and vegetation patterns in North China Block	Laurent O., Couzinié S., Berger J., Bellanger M., Allart B., De Parseval P.: The late Devonian to early Carboniferous tectonic-magmatic evolution of the northeastern French Massif Central: accretionary rather than collisional orogenic processes?
11:05	Wang W., Hu K., Wei S., Wang X.D.: Deciphering conodont morphological evolution at the onset of the Late Paleozoic Ice Age: Insights from deep learning	Gremmel J., Bosse V., Godard G., Yamato P.: Multimethod dating of an eclogite-facies metagranite (Champtoceaux Complex, Armorican Massif): Revealing the polycyclic evolution of Ordovician continental crust
11:20	Lai G., Gong E., Zhang Y., Du N.: Microbialites in the Early Pennsylvanian carbonate buildups from South China: fabrics, depositional settings, and paleogeographic implications	Vanderhaeghe O., Puziewicz J., Mazur S., Aulbach S., Grégoire M., Schiffer C., Palomeras I.: Variscan geodynamics and lithospheric differentiation: Insights from geophysical and geological data from Western Europe
11:35	Ma X., Shi Y., Hu K.: Fusulinids from the Narao section: Correlation potential for the Global Bashkirian-Moscovian and Moscovian-Kasimovian boundaries	Liu B.: When did the final assembly of the southern Central Asian Orogenic Belt occur in West Junggar (NW China): Insights from the Early Permian post-accretionary magmatic and sedimentary records
11:50	Wang L., Gong E., Zhang Y., Guan C.: Coral Reef Evolution and its Response to the Late Paleozoic Ice Age from the Pennsylvanian to Cisuralian in Southern Guizhou, South China	Berger J., Benmammar A., Duchêne A., Minne P., Chardon D., Baraille J.: A youth boost for early Variscan metamorphic-deformation events in the French Massif central?
12:05	Qi Y., Wang X.D., Barrick J.E., Chen J., Wang Y., Wang Q., Yao L., Hu K., Hogancamp N.J., Huang X., Wan M., Wang J.: Recent progress on the study of a candidate GSSP for the base of the global Gzhelian Stage (Upper Pennsylvanian) in Luodian, Guizhou, South China	De Hoym De Marien L., Štípská P., Pitra P.: Step-by-step exhumation of a high-pressure granulite revealed by sequential replacement of Ti-bearing minerals (Variscan French Massif Central)
12:25	Lunch & Poster Central Hall, Main University Building	
13:30	Closing Ceremony	
14:00		

Posters

Posters are displayed during the entire conference in the Main Hall, Central University Building.

P1	Session A1	Hartenfels S., Salamon M., Heß O.: Borehole Gressenich BK1: Lithostratigraphy as a tool for dating a conodont-poor succession of the early Mississippian Kohlenkalk Platform in the Aachen region, Germany
P2	Session A1	Kabanov P.: Devonian of Western Canada as a premier sedimentary archive of oceanic redox processes: case study from the latest Eifelian - Frasnian
P3	Session B1	Alvarez P., Denayer J.: Tienne Sainte-Anne bioherms (upper Eifelian, Middle Devonian) of southern Belgium: palaeoecology, development and faunal assemblage
P4	Session B1	Brungard T., Le Houedec S., Joachimski M.M., Girard C.: Variations in magnetic susceptibility during the semichatovae Event: not climate-related
P5	Session B1	Crônier C.: A comprehensive review of the biostratigraphy and paleobiogeography of the phacopid trilobite <i>Omegops</i> from the Famennian
P6	Session B1	El-Mehdawi A.D.: Palynology of the C1-NC190 Well, Murzuq Basin, SW Libya
P7	Session B1	Löw M., Becker R.T.: A revised taxonomy of the iconic Gephuroceratidae (Ammonoidea, Upper Devonian)
P8	Session B1	Nikolaeva S., Ülgen semih C., Kurilenko A.: Early Devonian ammonoids and crinoids from the Istanbul area (Türkiye)
P9	Session B1	Rivas De J.I., Barrera-Lahoz H., Valenzuela-Ríos J.I., Liao J-C.: Advances studies on the Middle Devonian sequence in the eastern Iberian Chains
P10	Session B1	Ye X., Wang X.D., Chen B., Qie W., Zhang F.: Barium Isotope Evidence for the Triggers of the Frasnian-Famennian Event
P11	Session B2	Capezzuoli E., Spina A., Brogi A., Degl'innocenti N., Ronchi A., Corradini C.: Re-assessing Paleozoic stratigraphy by using palynology: the case of the Southern Tuscany (Central Italy)
P12	Session B2	Friedel J.C., Neubauer T.A., Amler M.R.W.: Reconstructing the morphospace of Carboniferous parallelodontid bivalves (Arcoidea) through geometric morphometrics: preliminary results
P13	Session B2	Gonçalves D., Luccisano V., Rebillard A., Logghe A., Štamberg S., Steyer J.-S.: New aquatic vertebrate and ichnological remains from the Upper Carboniferous of Decazeville (Aveyron, France): implications on the paleofauna of the French variscan basins
P14	Session B2	Laville T., Bicknell R.: Insight into the diversity of Carboniferous thylacocephalans
P15	Session B2	Lin W., Yao L., Wang H.: Late Visean to early Bashkirian rugose corals in the Qilian Mountain region, northwestern China and their implication on palaeoecology
P16	Session B2	Wang H., Yao L., Lin W., Shi Y., Wang Q., Huang X., Qi Y.: Mid-Carboniferous rugose coral fauna in northeastern Qaidam Block and its paleobiogeographic implication

P17	Session B3	Barreiro I.R., Diez J.B., Fijałkowska-Mader A., Schneebeil-Hermann E., Spina A., Kustatscher E.: The Permian prepollen <i>Nuskoisporites</i> : a taxonomic and chronostratigraphic review
P18	Session B3	Baucon A., Trümpner S., Morelli C., Neto De Carvalho C., Ronchi A., Marchetti L., Kustatscher E.: Walking with Arthropods: Revealing Hidden Biodiversity in the continental deposits of the Permian Southern Alps
P19	Session B3	Kustatscher E., Forte G., Vallé F., Rodríguez-Barreiro I., Branz R.: The evolution of the Kungurian (Cisuralian) flora in the paleotropics (Southern Alps, Northern Italy)
P20	Session B3	Ronchi A., Marchetti L., Dal Sasso C., Cattaneo M., Della Ferrera E., Bonizzoni S., Rossi S., Merati M., Scarani R.: A new exceptionally preserved continental ecosystems from the lower Permian of the Southern Alps (Italy)
P21	Session B3	Sun Y.: A new cold-water brachiopod fauna from the Kungurian stage of the Hovsugol section, southeastern Mongolia: systematic description and biogeographical implications
P22	Session B4	Gong E., Lai G., Zhang Y., Du N.: Pennsylvanian microbe- and coral-dominated bioconstructions in Guizhou Province, China: insights into the evolution of reef ecosystems during the Late Paleozoic Ice Age
P23	Session B4	Yang S., Shi Y., Wang X.D.: High-resolution diversity dynamics of rugose corals in Carboniferous–Permian
P24	Session C1	Christophoul J.: Tectonic and sedimentary evolution of the Rodez Permian basin (French Massif Central)
P25	Session C1	Engelbrecht H., Carniti A.P.: Considerations on the depositional age and setting of the Carpineta Formation (South Tuscan Late Palaeozoic, Italy) based on a new fossil bearing deposit
P26	Session C1	Kim M.G., Lee Y.I.: Permo-Carboniferous coal accumulation in Korea: paleogeographic significance
P27	Session C1	Moreau F., Le Carlier De Veslud C., Loggia D., Coutable P., Ballas G., Lopez M., Branquet Y., Boulvais P., Benedicto A.: New constraints on the geometry of the Lodève-Graysse-Bassin based on gravity modelling and GIS multi-data integration: preliminary results
P28	Session C1	Tereso V., Dias R., Roseiro J., Romão J.: Variscan inversion of a Silurian basin: The role of preexisting features on shear zone nucleation (Central Iberian Zone, Iberian Massif)
P29	Session C2	Kilzi M., Grégoire M., Driouch Y., Benoit M., Debat P.: Petrogenesis of ultramafic-mafic rock-series from the North Pyrenean Castillon massif (Ariège, France): Evidence of magma - crust interactions at Ordovician time?
P30	Session C2	El Houicha M., Chopin F., Jouhari A., Fekkak A., Ezzouhairi H., Leprêtre R., El Attari A., Schulmann K., Miková J.: Zircon U-Pb geochronology of the Moroccan Variscan plutonic complexes from the Western High Atlas Palaeozoic massif
P31	Session C2	Marroquin Gomez M.P., Szymanowski D., Tavazzani L., Morelli C., Forni F., Brack P., Kustatscher E.: Post-Variscan magmatism in the Southern Alps: Insights from high-precision zircon petrochronology in the Athesian Volcanic District

P32	Session C2	Nicolas C., Bosse V., Denèle Y., Gardés E., Lotout C.: Temporal evolution of the Cap Creus shear zones (Eastern Pyrenees, Spain): new insights from in situ 87Rb/87Sr dating.
P33	Session C2	Roseiro J., Moreira N., De Oliveira D., Nogueira P.: Variscan tectono-metamorphic recrystallization of Cambro-Ordovician feldspathic rocks from SW Iberia
P34	Session D1	Beccaletto L.: The French Carboniferous-Permian basins in the context of the energy transition
P35	Session D1	Coutable P., Ballas G., Lopez M., Bosch D., Bruguier O., Branquet Y., Boulvais P., Rubio T., Moreau F., Le Carlier De Veslud C., Nevado C., Delmas D., Benedicto A.: Petrographic, geochemical and geochronological study of the vein networks in the Saxonian red units of the Lodève Basin: evidence of new fracturing events and metal remobilization.
P36	Session D1	Laurent A., Beccaletto L., Averbuch O., Graveleau F., Lacquement F., Bossennec C., Caritg S., Capar L., Marc S.: Characterization of the deep geothermal resource in Northern France: 3D structural modelling of the Dinantian carbonates reservoir in the Nord-Pas-de-Calais coal basin area
P37	Session E1	Fang Q.: Astrochronology for the penultimate icehouse
P38	Session E1	Pfeifer L., Wu T., Cui Y., Van Den Driessche J., Pochat S., Ramezani J., Soreghan M., Soreghan G.S.: Atmospheric dust loading in eastern equatorial Pangea (Western Europe) and its impact on the Late Paleozoic climate system
P39	Session F1	Charles N., Beccaletto L., Bellenfant G., Koukoulzas N., Badouna I., Swerada K., Michalak D., Jegrisnik T., Kamenik M., Jaroslawska-Sobor S., Hildebrandt R., Flores H., Dogan T., Zarogiannis T., Maraslidis G., Karatrantou C., Manoukian E.: CoalHeritage project: Unlocking the potential of Europe's coal mining heritage
P40	Session F1	Denayer J., Tourneur F.: Heritage stones in the Carboniferous of Belgium: a story of blue, grey, beige, red and black
P41	Session F1	Neto De Carvalho C.: Granites & Cheeses: Tolosa in the Naturtejo UNESCO Global Geopark (Portugal)