



DEEP DUST:

Probing Continental Climate of the Late Paleozoic Icehouse-Greenhouse Transition

Lynn Soreghan (U.S.)
Nick Heavens (U.S.)
Stephane Pochat (France)
Laurent Beccaletto (France)
Kathy Benison (U.S.)
Mike Hamilton (Canada)
Natsuko Hamamura (Japan)
Cindy Looy (U.S.)
Linda Hinnov (U.S.)
Sylvie Bourquin (France)

ICDP Workshop 2.0 Paris, France January 27-28, 2020

PI Contact Information - Dr. Lynn Soreg@ou.edu

Workshop Goal

(This is a follow-up workshop to the DeepDust workshop held in Norman, Oklahoma in March 2019). To get an overview of West-European Permian basins in order to clarify the location of the European drilling target, which could be located in the south of the Paris Basin.

"Between a marvelous deployment of glaciation, a strangely dispersed deposition of salt and gypsum, an extraordinary development of red beds, a decided change in terrestrial vegetation, a great depletion of marine life, a remarkable shifting of geographic outlines, and a pronounced stage of crustal folding, the events of the Permian period constitute a climacteric combination...More than any other period since the Proterozoic, the Permian is the period of problems."

- T.C. Chamberlin and R. D. Salisbury, Earth History, 1907



Monday, 27th January, pm Paris - SGF Building - Van Straelen room

12h30-13h30	Reception of participants
13h30-13h45	Welcome and preliminary remarks – L. Beccaletto, L. Soreghan, S. Bourquin
13h45-14h00	The ICDP Program – U. Harms, ICDP
14h00-14h30	Dust and Ice in Permian Equatorial Pangea – L. Soreghan, Oklahoma Univ. U.S
14h30-14h45	Deep Dust: Probing Continental Climate of the Late Paleozoic Icehouse-Greenhouse Transition – L. Soreghan, Oklahoma Univ. U.S
Permian basins in Western Europe - location, extension, depth, thickness, lithostratigraphy, direct-indirect investigations (seismic, well-logs, cores)	
14h45-15h05	Overview of W-European Permian basins – S. Bourquin, Rennes Univ. France
15h05-15h25	Polish Permian basins - a short introduction – I. Ploch, PGI Poland
15h25-15h45	The big four - Saar-Nahe-, Thuringian Forest-, Saale- and North German Basin — U. Gebhardt, SNMK Germany
15h45-16h05: coffee/tea break	
16h05-16h25	Distribution, architecture and infill of the Permo-Carboniferous troughs in the Swiss Plateau - S. Omodeo Salé, O. E. Eruteya and A. Moscariello, Geneva Univ. Switzerland
16h25-16h45	Permian basins in France - Deepdust target in SW Paris Basin – L. Beccaletto BRGM France
16h45-17h05	The Carboniferous - Permian transition south of the Paris Basin - Sedimentological, age, mineralogical and geochemical input from core and seismic data — M. Mercuzot, S. Bourquin, L. Beccaletto, P. Pellenard, C. Thomazo., Rennes Univ., BRGM, Dijon Univ. France
17h05-17h25	What can the plant fossil record tell us about environments and climate during the Permian? – AL. Decombeix, CIRAD France
17h25-17h35	Position of the INSU/CNRS - French National Center for Scientific Research – S. Guillot, dir. "Solid Earth" INSU France
17h35-17h45	Position of the BRGM, French Geological Survey – P. Nehlig, scientific dir. BRGM France
17h45-18h30	First round of discussion
18h30-19h00 20h15	Transfer on foot (200 m) from the SGF building to the André Latin Hotel Transfer by shuttle from the André Latin Hotel to the Anatole France pier (near Musée d'Orsay)
20h45 21h15 - 23h15 23h15 - 23h30	,



Tuesday, 28th January, am Paris - SGF Building - Van Straelen room

Permian basins in Western Europe - location, extension, depth, thickness, lithostratigraphy, direct-indirect investigations (seismic, well-logs, cores), resources...

Permian basins in UK and Ireland – A. Ruffell, Queen's Univ. UK -> <u>SKYPE</u>
Permian loess and dust in the Lodève basin (France): Exploring the provenance and depositional character of the Salagou Formation – L. Pfeifer, Oklahoma Univ. U.S
Permian geothermal resources in Europe – A. Götz, TU Ilmenau Germany
Permian basin - a resources point of view (prov.) – D. Bonijoly, dep. dir DGR BRGM France

10h20-10h40: coffee/tea break

10h40-12h15 Plenary discussion

- European target, validation of the Paris Basin? Other basins?
 - → Science, expertise, technology, site survey needs? Permitting, prioritization, outreach.
- Potential sponsors, programs/solicitations and expected budget limits & deadlines
- Conclusion

12h15 End of the ICDP DeepDust WS 2.0

12h30-14h00 Lunch at the SGF for registered participants

Thank you and have safe travels home!

