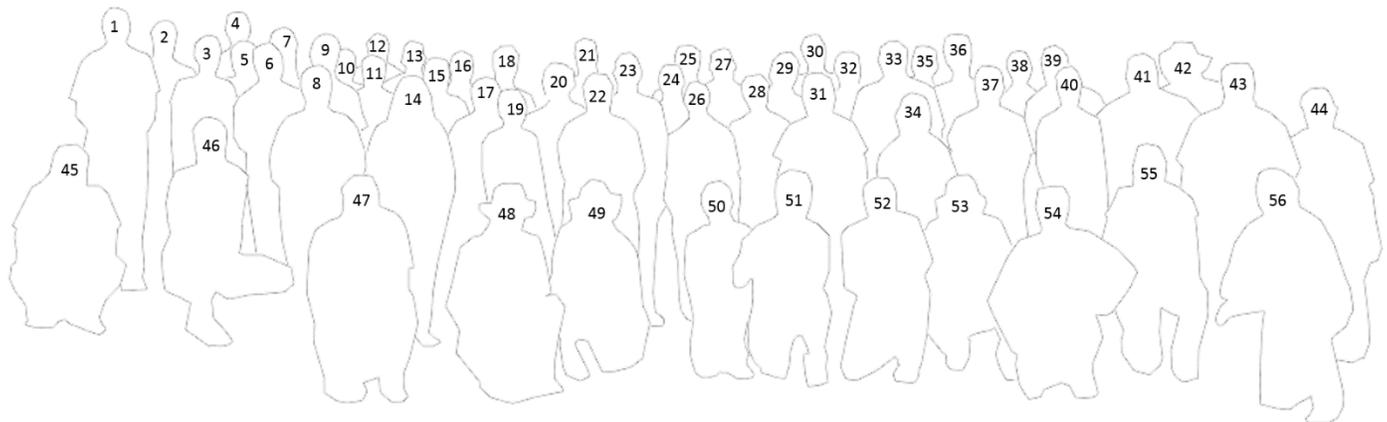
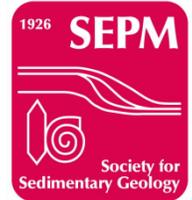


# SEPM Research Conference

## Propagation of Environmental Signals within

## Source-to-Sink Stratigraphy

Spanish Pyrenees, June 5th – 9th, 2017

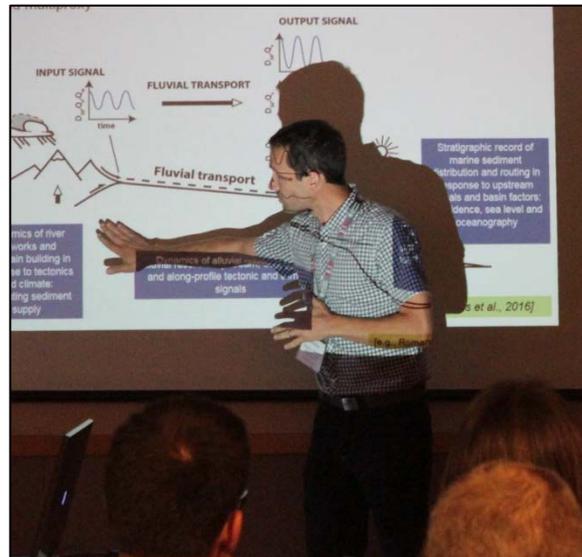


- |                       |                       |                          |                          |
|-----------------------|-----------------------|--------------------------|--------------------------|
| 1 Doug Burbank        | 16 Brian Horton       | 31 Ole Jacob Martinsen   | 46 Charlotte Läubli      |
| 2 Dirk Scherler       | 17 Thierry Adatte     | 32 Alex Simms            | 47 Julian Clark          |
| 3 Anne Bernhardt      | 18 Erik Rasmussen     | 33 Sean Willett          | 48 Cai Puigdefàbregas    |
| 4 Brady Foreman       | 19 Grace Cosgrove     | 34 Emily Wei             | 49 David Hodgson         |
| 5 Glenn Sharman       | 20 Sam Brooke         | 35 Louis Honegger        | 50 Margo Odium           |
| 6 Miguel Garcés       | 21 Jochem Bijkerk     | 36 Stephan Toby          | 51 Chen Chen             |
| 7 Marta Roige         | 22 Stephen Watkins    | 37 Haipeng Li            | 52 Timothy Lawton        |
| 8 Cecile Robin        | 23 Alex Whittaker     | 38 Cornel Olariu         | 53 Oscar Javier Arévalo  |
| 9 Andreu Vinyoles     | 24 JP Walsh           | 39 Allard Martinius      | 54 Sebastien Castelltort |
| 10 Emmanuelle Chanvry | 25 Kelly Thomson      | 40 Piret Plink-Bjorklund | 55 Kirsten Siebach       |
| 11 Ed Sobel           | 26 Stephanie Tofelde  | 41 Daniel Stockli        | 56 Andrea Fildani        |
| 12 Xavi Coll          | 27 Peter Van Der Beek | 42 Mike Blum             |                          |
| 13 Salvador Boya      | 28 Taylor Schildgen   | 43 Stephan Graham        | + Vitor Abreu            |
| 14 Sheila Trampush    | 29 Ryan Sincavage     | 44 Fritz Schlunegger     | + Cody Mason             |
| 15 Brian Romans       | 30 Daan Beelen        | 45 Miquel Poyatos-Moré   | + Sofia Pechlivanidou    |

## Conference Photos



**Sunday:** Ice Breaker at Hotel Segle XX, Tremp.



**Sunday:** Introductory presentations by conference conveners (Julian Clark, Andrea Fildani and Sebastien Castelltort), and first Key Note presentation by Ole Martinson (Statoil) introducing the concepts and advances in source-to-sink research.



**Monday:** Oscar Arevalo (University of Leeds) presenting his poster on the Paleocene Eocene Thermal Maximum (PETM) standing on the Claret Conglomerates (a stratigraphic signal related to the PETM event).



**Monday:** Alex Whitaker (Imperial College London) discussing the Upper Eocene Montsor conglomerates, infilling paleovalleys that were major suppliers of clastic sediment to the foreland basin.



Margo Odlum (UT Austin) presenting results of detrital zircon studies and their use to constrain provenance in source-to-sink analysis.



**Monday:** Taking coffee orders in the field.

**Monday:** (Below) Marta Roige (UAB) presenting a poster on the petrography and provenance of sediments in the Tremp and Ager basins.



(Above) Cai Puigdefàbregas leading the conference participants to the Castissent fluvial outcrops at Mas de Faro.



Miguel Poyatos-Moré (Oslo University) presenting work on the sediment routing of the Corça Fm.



**Tuesday:** Allard Martinius (Statoil) and Sebastien Castellort (University of Geneva) demonstrating progradation patterns on the Roda Delta.



The S2S convoy leaves town following the source-to-sink route (2 busses, 1 ambulance, and 5 cars).



**Tuesday:** “Perched on the shelf edge”. Julian Clark (Statoil) pointing out the submarine erosional surface at Atiart.



“Stepping into the deep”. Examining the Atiart submarine erosional surface.



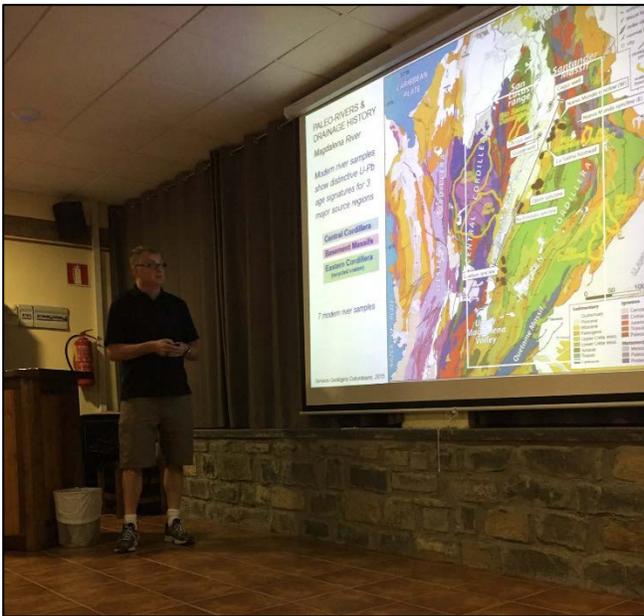
**Wednesday:** (Above) Steve Graham (Stanford University) and Vitor Abreu discussing turbidites. Vitor led a core workshop (with half the group) while Julian Clark took the other half to view the outcrops from where the core was taken. Then the groups swapped.



Half the group viewing the Ainsa Basin stratigraphy of turbidite channel systems and slope mudstone.



Louis Honegger and Charlotte Lauchli (University of Geneva) presenting their work on carbon isotopes and magnetostratigraphy in the Ainsa Basin, and implications for the timing and controls on delivering sands to the deep-water part of the basin.



Back in the hotel for conference and poster sessions. (Above) Brian Horton from UT Texas presenting paleodrainage history of large rivers responding to the growth of the Andes. (Right) Posters-and-tapas session.



**Thursday:** "In the Sink". Examining the Bergua Road section of turbidite lobes in the Jaca basin.



**Thursday:** (Above) The basal slumped unit of the MT5 “Megabed” at the base of the Bergua Road section. This is one of several basin-wide “megabeds” derived from mass failure of the southern margin of the basin that can be used as marker beds across the basin.

(Left) Sebastien’s artistic rendering of the Mid-Upper Lutetian paleogeography of the southern Pyrenees



**Thursday early evening:** A group of eager geologists took an optional excursion to see the facies and architecture of the classic Ainsa Quarry.



**Friday:** Kelly Thomson (UT Austin) presenting his work at Guaso on detrital zircon provenance in the Ainsa basin and implications for sediment provenance and mixing signals preserved in the deep-water stratigraphy.



**Friday:** Cai Puigdefàbregas pointing out carbonate mass-transport deposits derived from collapsed southern margin and progradation of the Sobrarbe Delta representing the final stages of marine deposition into the Ainsa Basin.





**Friday evening:** Final group meal at a restaurant terrace overlooking the Cinca Valley, Pena Montañesa reflecting the last rays of the setting sun, and a spectacular full-moon-rise.