

**InterRidge Working Group Oceanic Transform Faults
FIRST WORKSHOP – Plouzané, Brest – May 22nd-24th 2018
Program**

Tuesday, May 22nd, room D at IUEM, Plouzané

9:00 – 9:15 – *Welcome coffee*

9:15 – 9:45 – Jérôme DYMENT et Nadine LE BRIS – InterRidge Program

9:45 – 10:00 – Marcia MAIA (LGO, IUEM, WG coordinator) – Presentation of the WG and the workshop

10:00 - 13:00– *Session 1 Tectonics and structure of transform faults (chair B. Hanan)*

10:00 - 10:30 Colin DEVEY (GEOMAR, Allemagne) **A 100Ma history of oceanic spreading from the Vema Fracture Zone**

10:30 – 11:00 Coffee break and posters (Hall IUEM)

11:00 – 11:30 Marco LIGI (CNR Bologna, Italie) **Megatransforms: a New Class of Oceanic Transform Plate Boundaries**

11:30 – 12:00 Marcia MAIA (LDO, France) **Evolution of a multi-segmented slow-slipping transform system: the Equatorial St. Paul transform**

12:00 – 12:30 Laurent GEOFFROY (LGO, France) **Oblique continental extension and the birth of transform faults: the Gulf of California as a case-example**

12:30 – 13:00 Diane Arkay & Serge Lallemand, (CNRS – Geosciences Montpellier) **From transform faults to subduction**

13:00 - 14:00 *Lunch break (buffet at IUEM)*

14:00 – 14:30 Jason Phipps Morgan, (Royal Holloway, University of London) **Transform topography revisited**

14:00 – 16:00 *Session 2 Petrology & geochemistry (chair M. Maia)*

14:30 – 15:00 Barry HANAN (UCLA, USA) **A New Kind of Hotspot-Ridge Interaction: Evidence from the Southeast Indian Ridge**

15:00 – 15:30 Daniele Brunelli, University of Modena **Temporal record of magmatic activity and source melting along fracture zones**

15:30 – 16:00 Henry Dick, WHOI **The Crust-Mantle Boundary on the Atlantis II Transform Wall, SWIR**

16:00 – 16:30 *coffee break and posters (Hall IUEM)*

16:30 - 19:00 *Session 3 Deep structure and numerical models of transform faults (chair D. Brunelli)*

16:30 – 17:00 Emily Roland, University of Washington **Fault zone structure at the Gofar oceanic transform: physical properties constrained by seismic velocity and numerical models**

17:00 – 17:30 Louis Geli, IFREMER, **(Understanding the relations between seismicity and fluid compressibility in submarine environments: learnings from two case studies, e.g. the Main Marmara Fault and the East Pacific transform faults**

17:30 – 18:00 Taras Gerya, ETHZ **Nucleation and evolution of oceanic ridge-transform spreading patterns**

19:15 departure for Brest, free evening

Wednesday, May 23rd, room D, B-220 and A-219 at IUEM, Plouzané

9:00 – 9:15 – coffee

9:15 - 10:15 Session 3 Deep, continue, structure and numerical models of transform faults (chair D. Brunelli)

9:15 – 9:45 Fan Zhang, Southern University of Science and Technology **Structure of fracture zones as resulting from geophysical constraints**

9:45 – 10:15 Lars RUEPKE (GEOMAR, Germany), **Temperature, deformation, and fluid flow at oceanic transform faults in 3-D geodynamic models**

10:15 – 11:45 coffee break and posters (Hall IUEM)

10:45 – 13:00 round tables

13:00 - 14:00 lunch

14:00 – 16:00 round tables by group of interest

16:00 – 16:30 coffee break and poster (Hall IUEM)

16:30 – 19:00 first joint discussion after the round tables

19:15 Departure to pointe St. Mathieu for the WS dinner

22:30 return to Brest

Thursday May 24th, room D at IUEM, Plouzané

9:00 – 9:15 – coffee

9:15 – 10:30 continue general discussion and wrap up of the main conclusions and recommendations of the WG

10:30 – 11:00 coffee break

11:00 – 13:00 Wrap up

13:00 - 14:00 Lunch

14:30 End of WS and departure to Brest