

*Emile Argand Conference – EGU series*

## **12<sup>th</sup> ALPINE WORKSHOP**

**13-19 September 2015**

**Montgenèvre / Briançon – French Hautes-Alpes**

# Scientific Program



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**Organization:**

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*[alpine-workshop-briancon-2015.eu](http://alpine-workshop-briancon-2015.eu)*



# 12th Alpine WORKSHOP

## Emile Argand Conference

### Scientific Program 15-17 September 2015

time	15	16	17
8	registration		
8,5	registration		
9	welcome	KN1	KN4
9,5	KN3	1	4
10	3	posters & coffee	posters & coffee
10,5	poster & coffee	1	4
11	3	1	4
11,5	3	1	4
12	3	1	4
12,5			
13			
13,5			
14			
14,5	3	1	KN5
15	3	1	5
15,5	posters & coffee	1	5
16	posters & coffee	posters & coffee	posters & coffee
16,5	KN2	posters & coffee	posters & coffee
17	2	6	5
17,5	2	6	5
18	2	6	conclusion
18,5	2		
19			
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20	ICEBREAKER		
20,5	ICEBREAKER	GALA DINER	
21	ICEBREAKER	GALA DINER	
21,5	ICEBREAKER	GALA DINER	
22	ICEBREAKER	GALA DINER	
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**Session #1:** Collision Processes in Alpine-Type Orogens (Convener M. Ballèvre)

**Session #2:** Subduction Processes (Convener P. Agard)

**Session #3:** Margin and Ocean: Related Structure and Evolution (Convener G. Manatschal)

**Session #4:** Late Alpine, Active tectonics, and Surface Processes (Convener C. Sue)

**Session #5:** Geophysical Imagery of Mountain Belts (Convener A. Paul)

**Session #6:** Open Session on Alpine-Type Orogens (Convener XXX)

**Tuesday 15 September****8h-9h Registration****9h-9h30 Welcome and opening of the meeting***Margin and Ocean: Related Structure and Evolution (Session #3) - Convener G. Manatschal*

**9h30-10h Keynote Müntener O.** Key role of Upper Mantle rocks in Alpine type orogens: recipes for rift, serpentinization and subduction zone processes

**10h-10h15 Ballèvre M., Manzotti P., Poujol M.** Pre-Alpine (Variscan) inheritance: a key for the location of the future Penninic front (Western Alps).

**10h15-10h30 Petri B. & Mohn G.** Permian magmatism, metamorphism and extension: implications for the Alpine Tethys rifting. (*Solicited*)

**10h30-11h30 Coffee Break and Poster Session**

**11h30-11h45 Nestola Y., Storti F., & Cavozi C.** Extension-rate dependent rift architecture in 3D analogue models: insights for Alpine-type orogens

**11h45-12h Beltrando M., Stockli D., Decarlis A. & Manatschal G.** A crustal-scale view at rift localization along the fossil Adriatic margin of the Alpine Tethys (Italian Southern Alps). (*Solicited*)

**12h-12h15 Incerci N., Martire L., Manatschal G. & Bernasconi S.** Evidence of hydrothermal fluid flow in distal rifted margins: the case study of Err nappe.

**12h15-12h30 Masini E., Manatschal G., Tugend J., Mohn G., Kuszniir N. & Unternehr P.** Hyper-extension along rift systems: structural and sedimentary implications for their formation and deformation. (*Solicited*)

**12h30-14h30 Lunch Break**

**14h30-14h45 Decarlis A., Manatschal G. & Beltrando M.** Architecture of the Piedmont-Ligurian rifted margins: hints for a flip of the rift system polarity

**14h45-15h Pezzali I., Manatschal G., Sauter D., Tribuzio R. & Zanetti A.** High-temperature deformation in the gabbros from the Chenaillet ophiolite (Western Alps)

**15h-15h15 Tribuzio R., Garzetti F., Corfu F., Tiepolo M. & Renna M.R.** U-Pb zircon geochronology of the Ligurian ophiolites (Northern Apennine, Italy): implications for continental break-up to slow seafloor spreading

**15h15-15h30 Ragusa J., Kindler P. & Segvic B.** Reconstructing the sediment provenance of the Voiron Flysch (Gurnigel Nappe, Haute-Savoie, France)

**15h30-16h30 Coffee Break and Poster Session***Subduction Processes (Session #2) - Convener P. Agard*

**16h30-17h Keynote Faccenna C., Becker T.W., Conrad C. & Husson L.** Mountain building and mantle dynamics.

**17h-17h15 Malusà M.G., Faccenna C., Baldwin S.L., Fitzgerald P.G. & Rossetti F.** The stratigraphic key to (U)HP rock exhumation

**17h15-17h30 van Gelder I.E., Willingshofer E. & Sokoutis D.** Lateral extrusion of the upper plate in response to subduction of a non-rigid continental plate; analogue modelling and application to the Eastern Alps.

**17h30-17h45 Janak M. et al.** Diamond from Pohorje confirms UHPM and deep subduction of continental crust in the Eastern Alps

**17h45-18h Engi M. et al.** Metamorphic and structural evolution in the internal Western Alps.

- 18h-18h15** *Burn M., Kunz B., Giuntoli F., Lanari P. & Engi M.* The art to reconstruct the evolution of HP-terrains using a petrochronological approach.
- 18h15-18h30** *Giuntoli F., Lanari P., Kunz B.; Burn M. & Engi M.* Garnet growth and resorption records the PT-path from dry Permian granulite to Alpine eclogite facies rocks, involving HP-hydration in the Sesia Zone (NW Alps).
- 18h30-18h45** *Hernandez-Moreno C., Speranza F. & Di Chiara A.* Crust fragmentation and block rotation pattern along intra-arc strike-slip faults arising from oblique subduction: Paleomagnetic evidence from the Liquiñe-Ofqui fault zone (Southern Chile, 38°-41°S).
- 18h45-19h** *Replumaz A.* Continental tectonics related to subduction dynamics during India-Asia convergence.

**20h-... Icebreaker Party (at Durancia spa, Montgenèvre)**

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**Wednesday 16 September**

*Collision Processes in Alpine-Type Orogens (Session #1) - Convener M. Ballèvre*

- 9h-9h30 Keynote** *Butler R.* Geological inheritance and Alpine tectonics: implications for the temporal evolution of orogens.
- 9h30-9h45** *Berger A. & Herwegh M.* Structural changes from very proximal to distal European margin (Central Alps) and their effect on Alpine collision.
- 9h45-10h** *Dumont T., Verly A., Lanari P. & Matthews S.* Structure and restoration of the Briançonnais zone : a reappraisal of the early Alpine deformation episodes.

**10h-11h Coffee Break and Poster Session**

- 11h-11h15** *Rolland Y., Bellahsen N., Boutoux A., Lanari P., Cenki-Tok B., Dumont T., Rossi M. & Verlaquet A.* Synthesis of ages obtained by direct dating of Alpine External Crystalline Massifs shear zones – Insights for an Oligocene-to-Present underthrusting-exhumation cycle.
- 11h15-11h30** *Boutoux A., Bellahsen N., Nanni U., Girault J.B., Pik R., Verlaquet A., Rolland Y. & Lacombe O.* Sequence of shortening in the Mont Blanc and Aiguilles Rouges massifs from thermal and thermochronological data.
- 11h30-11h45** *Bellahsen N., Boutoux A., Rolland Y., Verlaquet A., Pik R., Bellanger M., Jolivet L. & Augier R.* Thermal and structural evolution of the Alpine collisional wedge (External Crystalline Massifs, Western Alps).
- 11h45-12h** *Lanari P., Verly A., Riel N., Dumont T., Rolland Y., Schwartz S. & Engi M.* Petrochronological investigations of the geodynamic processes leading to the exhumation of the Liguro-Piedmontais oceanic prism during Alpine collision.
- 12h-12h15** *Willingshofer E.; Sokoutis D., Weekenstoo M.; Vogt K., Gueydan F & Matenco L.* Retro-wedge formation during collision: favourable mechanical conditions deduced from analogue and numerical modelling.
- 12h15-12h30** *Caër T., Maillot B., Souloumiac P., Leturmy P. & Nussbaum C.* Mechanical analysis of the thin- versus thick-skin current tectonics in the Jura thrust belt (Swiss Alps).

**12h30-14h30 Lunch Break**

- 14h30-14h45** *Rosenberg C., Janowski M., Loget N. & Garcia S.* Topography of the Central Alps in the light of collisional tectonics.

- 14h45-15h** Fodor L., Vrabec M., Héja G., Jelen B., Koroknai B., Németh A., Rifelj H. & Trajanova M. Structural evolution of the East Alpine-Pannonian junction area: from nappe stacking to extension
- 15h-15h15** Manzotti P. & Ballèvre M. Geometry of the basal thrust of the Dent Blanche (Western Alps): implications for the rheological behaviour of ultramafic rocks along the subduction interface. (*solicited*)
- 15h15-15h30** Schmalholz S., Jaquet Y., Duretz T. & Bauville A. Fundamental strain localization mechanisms during continental collision with application to the Alpine orogeny.
- 15h30-15h45** Tugend J., Manatschal G., Mohn G. & Chevrot S. The deep structure of the Alps: What can we learn from the Pyrenean orogen? (*solicited*)
- 15h45-16h** Schmid S.M. & Kissling E. On the formation of the arc of the Western Alps and the Alps-Appennines transition.

### 16h00-17h00 Coffee Break and Poster Session

#### *Open Session on Alpine-Type Orogens (Session #6)*

- 17h-17h15** Márton E., Zampierib D., Čosovič V., Moroc A. & Romano R.. Apparent Polar Wander Path for Adria extended by new Jurassic paleomagnetic results directly from its stable core: tectonic implications.
- 17h15-17h30** Graham R. Salt in the passive margin, foreland basin and fold and thrust belt of the external Alps of Provence.
- 17h30-17h45** Bergemann C., Gnos E., Berger A., Whitehouse M., Walter F. & Bojar H.P. Eo-Alpine evolution in the Eastern Alps under brittle conditions revealed by Monazite Th-Pb dating.
- 17h45-18h** Barale L., Bertok C., d'Atri A., Martire L., Piana F. & Rossetti P. Stratigraphic and tectonic setting of the southern termination of the Western Alps (Ligurian-Maritime Alps junction): an update.
- 18h-18h15** Rossetti P., Barale L., Bertok C., d'Atri A., Gerdes A., Martire L., Piana F. & Scarrone F. Fluid-assisted deformation and recrystallization related to CO<sub>2</sub>-rich hydrothermal fluids: the case of the Valdieri marbles (Maritime Alps).
- 18h15-18h30** Marthaler M. How to simplify geological maps? Examples in Valais & Chablais (Swiss & French Alps).

**20h-... Gala Dinner at the restaurant “Le Pécher Gourmand\*”, Briançon (Shuttle organized from Montgenèvre)**

### **Thursday 17 September**

#### *Late Alpine, Active tectonics, and Surface Processes (Session #4) - Convener C. Sue*

- 9h-9h30 Keynote** Herman F. & King G. Coupling between tectonics and erosion in the Alps and the eastern Himalayan syntax.
- 9h30-9h45** Walpersdorf A. *et al.* Coherence between geodetic and seismic deformation in a context of slow tectonic activity (SW Alps, France).
- 9h45-10h** Husson L, Sternai P., T. Becker., Faccenna C. & Guillot S. Mechanics of Alpine uplift.

### **10h-11h Coffee Break and Poster Session**

- 11h-11h15** *De La Taille C., Jouanne F., Jomard H., Beck C. & Crouzet C.* Quaternary sediments as a tool for seismotectonic evaluation of the Culoz, Col du Chat and Vuache fault, Southern Jura - Western Alps - Implications for the seismic hazard. (*solicited*)
- 11h15-11h30** *Vouillamoz N., Abednego M., Wust-Bloch G. & Mosar J.* Microseismic analysis of the Fribourg Lineament: An active fault zone in the Western Swiss Molasse Basin. (*solicited*)
- 11h30-11h45** *Rolland Y., Petit C., Saillard M., Braucher R., Bourlès D., Darnault R. & Cassol D.* High incision rates evidences in the SW Alps following the Last deglaciation: Relative roles of climate and tectonics.
- 11h45-12h** *Grasso J.-R., Sue C., Tatard L. & Voisin C.* Susceptibility of French Alps slopes to earthquake shaking: interactions between strong topography contrast, low tectonic loading, and low weathering context.
- 12h-12h15** *Mladenović A., Trivić B., Cvetković V. & Pavlović R.* Late Eocene – recent tectonic evolution of the northern Internal Dinarides (western Serbia).
- 12h15-12h30** *Bertrand A. & Sue C.* Reconciling late fracturing over the entire Alpine belt: from structural analysis to geochronological constrains. (*solicited*)

### 12h30-14h30 Lunch Break

#### *Geophysical Imagery of Mountain Belts (Session #5) - Convener A. Paul*

- 14h30-15h Keynote.** *Chevrot S.* Imaging the deep architecture of mountain ranges: A review of recent results obtained in the Pyrenees.
- 15h-15h15** *Molinari I.; Hetényi G., Clinton J. & Kissling E.* The International AlpArray Initiative - Aiming at Profound Understanding of Alpine Orogeny and Geodynamics. (*solicited*)
- 15h15-15h30** *Plomerová J., Bianchi I., Hetényi G., Munzarová H., Bokelmann G., Kissling E. & AlpArray-EASI Working Group.* The Deep Alps and the Eastern Alpine Seismic Investigation (EASI) project.
- 15h30-15h45** *Paul A., Zhao L., Guillot S., Malusa M., Schwartz S., Dumont T., Solarino S. & CIFALPS Team.* Seismic imaging of the subduction complex of the Western Alps.
- 15h45-16h** *Zhao L., Malusà M.G., Paul A., Xu X., Solarino S., Guillot S., Schwartz T., Dumont T., Wang Q. & Zhu R.* New high-resolution P-wave tomography model in the Alpine region. (*solicited*)

### 16h-17h Coffee Break and Poster Session

- 17h-17h15** *Potin B., Valette B., Thouvenot F. & Monteiller V.* Western Alps Tomography and Moho Topography Determination using 35,000 Local Earthquakes. (*solicited*)
- 17h15-17h30** *Speranza F., Minelli L., Pignatelli A. & Gilardi M.* Curie temperature depths in the Alps and the Po Plain (northern Italy): evidence for a hot crust along maximum crustal thickness zones of the Alps.
- 17h30-17h45** *Minelli L. & Speranza F.* Crustal setting of the Apennines from joint inversion of seismic tomography and magnetic anomaly data: Evidence from L'Aquila fault zone (Italy).
- 17h45-18h** *Kufner S.K. et al.* The deep structure of the Pamir and Hindu Kush mountains, central Asia – about the fate of continental lithosphere during collision.

### 18h-18h30 Conclusion of the meeting

**20h Public Lecture** by Yves Lagabrielle (at the new “maison de la géologie”, Briançon) *IN FRENCH*

**List of Posters****Collision Processes in Alpine-Type Orogens (Session #1) - Convener M. Ballèvre**

- Fodor L., Márton E., Vrabec M., Jelen B., Koroknai B., Rifelj H., Trajanova M. & Vrabec M.* Interplay of extensional deformations and rotations within a few million years interval: an integrated paleomagnetic and structural study (Pohorje Mts. –Mura Basin, Slovenia).
- van Gelder I.E., Willingshofer E. & Andriessen P.A.M.* Miocene to recent kinematics and exhumation of the Mur-Mürz strike-slip fault (Eastern Alps) illustrating direct interplay with surrounding lithospheric scale processes.
- Iglseder C. & Huet B.* Evidence for Eoalpine top to the WNW thrusting and top to the ESE normal faulting in the Gurktal nappes (Drauzug-Gurktal nappe system, Upper Austro-Alpine, Austria).
- Kövéř S., Fodor L. & Zajzon N.* From Jurassic accretion to Cretaceous back-thrust: tectonic consequences of 220 Ma rhyolite clasts from Neotethyan melanges.
- Jie L. & Gerya T.* Strain partitioning in the crust during continental collision: Insight from 2D numerical modelling.
- Manzotti P., Pitra P. & Ballèvre M.* Constraining P-T conditions during thrusting of a higher-pressure unit over a lower-pressure one (Gran Paradiso Massif, Western Alps).
- Porkoláb K., Kövéř S., Soós B., Gerzina N., Đerić N. & Fodor L.* From Drina-Ivanjica Paleozoic to Western Vardar Ophiolite: from nappe-stacking to post-emplacement deformations in Western Serbia – preliminary results.
- Real C., Manzotti P., Le Goff E., Dal Piaz G.V. & Ballèvre M.* Discontinuities in structural and metamorphic history across a nappe stack: mapping the location and geometry of the Combin Fault (W Alps).
- Sauton C., Rosenberg C., Barbarand J., Gautheron C., Pik R., Loget N., Rabaute, A. & Bellahsen N.* Thermochronology of the easternmost Central Alps: what drives exhumation during collision?
- Salze M. & Malavieille J.* Analogue modelling of syn-sedimentary folding in mountain forelands : example of the Pyrenean orogen.
- Verly A., Dumont T. & Lanari P.* Exhumation of HP-LT units of the internal Briançonnais zone, new constraints from U-Th-Pb dating on allanite minerals and geodynamic implications.

**Subduction Processes (Session #2) - Convener P. Agard**

- Abbas H., Lustrino M., Agostini S., Gianolla P. & Carminati E.* On the Ladinian magmatism in the Dolomites (Southern Alps).
- Beltrando M., Manatschal G., Mohn G., Dal Piaz G.V., Vitale Brovarone A., Masini E.* From rift-inherited hyper-extension to orogenesis: De-coding the axial zone of orogenic belts.
- Giuntoli F., Manzotti P., Engi M. & Ballèvre M.* Structural and metamorphic subdivision of the central Sesia Zone (Aosta Valley, Italy).
- Malusà M.G., Federico L., Crispini L., Piazza M., Frattolillo N., Milani M., Zampicinini M. & Capponi G.* Mapping the syntectonic successions atop the Eclogite Belt: the Tertiary Piedmont Basin of the Ligurian Alps (Italy).
- Miladinova I., Froitzheim N., Nagel T. & Münker C.* New Lu-Hf ages from the eclogite type-locality in the Eastern Alps (Grünburgerbach, Saualpe and Hohl, Koralpe).

**Margin and Ocean: Related Structure and Evolution (Session #3) - Convener G. Manatschal**

- Decarlis A., Tribuzio R., Picotti V., Manatschal G., Gillard M., Bonzani A., Sbaffi M. & Stelitano M.* Revisiting the Bracco-Levanto ophiolite: 46 years after the pioneering idea of mantle exhumation by detachment faulting.
- Duretz T., Mohn G. & Schmalholz S.* Impact of pre-rift inheritance on Jurassic rifting in the Alps: insights from lithospheric models.
- Epin M.E., Manatschal G., Hauptert I. & Decarlis A.* Characterization of extensional detachment systems in hyper-extended domains: examples from the Err nappe (SE Switzerland) and Prepiémontais units (SE France).



- Hauptert I., Manatschal G., Decarlis A. & Epin M.E.* Architecture and reactivation of an upper plate distal rifted margin: the example of the French-Italian Briançonnais and Prepiemontais domains in the W-Alps.
- Horváth B., Hips K. & Fodor L.* Depositional environments created by the disruption of the Steinalm carbonate platform in the Middle Triassic (Aggtelek–Rudabánya Hills, NE Hungary) – Lithofacies and microfacies associations.
- Jaquet Y.; Duretz T. & Schmalholz S.* Formation of necking zones during lithospheric rifting.
- Mateeva T., Kuszniir N., Wolff G., Wheeler J. & Manatschal G.* Preserved organic matter in the Alpine Ocean Continental Transition (Totalp).
- Petri B., Mohn G., Wijbrans J.R., Manatschal G. & Beltrando M.* Exhumation, cooling and deformation history in the Adriatic rifted margin necking zone: the Campo/Grosina section (S-Switzerland and N-Italy).
- Ospina-Ostios LM., Ragusa J. & Kindler P.* The use of biostratigraphic tools in dating the Voiron Flysch (Gurnigel Nappe, Haute-Savoie, France).

#### **Late Alpine, Active tectonics, and Surface Processes (Session #4) - Convener C. Sue**

- Bacenetti M., Stockli D., Cadoppi P. & Perrone G.* Low-temperature evolution of the inner sector of the Cottian Alps (Western Alps, Italy): evidence from Ap and Zr (U-Th-Sm)/He analysis.
- Nocquet, J.-M., C. Sue, A. Walpersdorf, T. Tran, N. Lenôtre, P. Vernant, M. Cushing, F. Jouanne, F. Masson, S. Baize, J. Chéry, P. Van der Beek and the RENAG Team.* Present-day uplift of the Western Alps.
- Perrone G., Cadoppi P., Tallone S. & Bacenetti M.* Transpressional faulting along the western border of the Lanzo Ultramafic Complex (Italian Western Alps).
- Pleuger J., Zwingmann H., Skaberne D., Vrabec M., Georgiev N. & Mancktelow N.* Preliminary results of K-Ar dating of clay fault gouges from the Sava and Idrija faults (Slovenia) and the Ribnovo fault (Bulgaria).
- Rabin M., Sue C., Sakic P. & Walpersdorf A.* Present-day deformations of the Jura arc inferred by GPS surveying and earthquake focal mechanisms.
- Rabin M., Sue C., Champagnac J.-D., Valla P.G., Carry N., Eichenberger U., Bichet V. & Mudry J.* Neotectonics of a slow orogenic arc inferred from quantitative geomorphology: the Jura Mountains.
- Tokarski A.K., Márton E., Świerczewska A., Zasadni J., Kukulak J. & Fheed A.* Neotectonic rotations in the Orava–Nowy Targ intramontane basin (Western Carpathians): an integrated palaeomagnetic and fractured clasts study.

#### **Geophysical Imagery of Mountain Belts (Session #5) - Convener A. Paul**

- Kaestle E.; Boschi L.; Bellahsen N & Rosenberg C.* Crustal structure of the Alps from Ambient Noise Tomography.
- Munzarova H.; Plomerova J.; Babuska V. & Vecsey L.* Fabrics of the upper mantle and the lithosphere-asthenosphere boundary beneath the Northern Apennines.

#### **Open Session on Alpine-Type Orogens (Session #6)**

- Barale L., C. Bertok, NS. Talabani, A. d'Atri, L. Martire, F. Piana, A. Pr at.* Very hot, very shallow hydrothermal dolomitization: an example from the Maritime Alps (NW Italy-SE France).
- Kunz B.E., Manzotti P., von Niederh usern B., Burn M., Giuntoli F. & Engi M.* Permian metamorphism in fragments of continental crust in the Western Alps.
- Gruber M., Sommaruga A. & Mosar J.* Evidence for Liassic to Dogger synsedimentary normal faulting in the Western Swiss Molasse Basin based on seismic interpretation.
- Keil M. & Neubauer F.* The Pleistocene Mitterberg deposits: Tectonic control, provenance analysis and depositional processes (Upper Enns Valley, Austria).

*Palzer M., Knierzinger W., Wagreich M., Meszar M.E., Gier S., Soliman A. & Kallanxhi M.E.* Early Miocene (Ottangian) Environmental Crisis in the Lower Austrian Molasse Basin: A key to the tectonic evolution of the Eastern Alps – Molasse basin system.

*Picard, C.* Asbestiform and non-asbestiform type tremolite and actinolite in French Alps.

*Schuster Ralf & Ilickovic Tanja.* Analysis of Cretaceous to Miocene ductile and brittle fault systems in Austroalpine units to the southeast of the Tauern Window (Eastern Alps)

**Alphabetic List of Participants**

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