# 2016 Division Meeting

**EGU Geomorphology Division** 

General Assembly, Vienna | 21/04/2016



Meetings | Publications | Outreach | www.egu.eu



## Agenda | EGU GM Division meeting 2016

- General Assembly; some numbers and information
- GM Division Programme, planning and outcome, travel support
- Special Events
- Medals/Awards
- Where is GM going
- EGU Announcements
- Other Announcements



Vienna | Austria | 17-22 April 2016

EGU.eu



#### **EGU General Assembly 2016 facts**

As of 14 April, the Assembly 2016 provides:

- 16,130 papers in programme | +13.34% (2015)
- 4,863 orals | 10,320 posters | 947 PICOs | ratio 30 / 64 / 6
- 619 unique scientific sessions | 321 side events\*
- 10,988 registrations in advance | +23.68% (2015)

<sup>\*</sup>Side events include: SSE (w/o US), OEM (w/o EOS), STM, FAN, AM

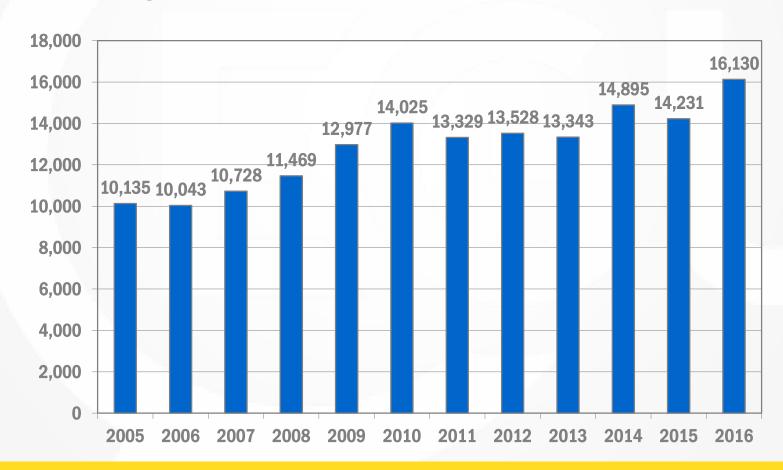


Vienna | Austria | 17-22 April 2016

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### Papers in programme 2005–2016



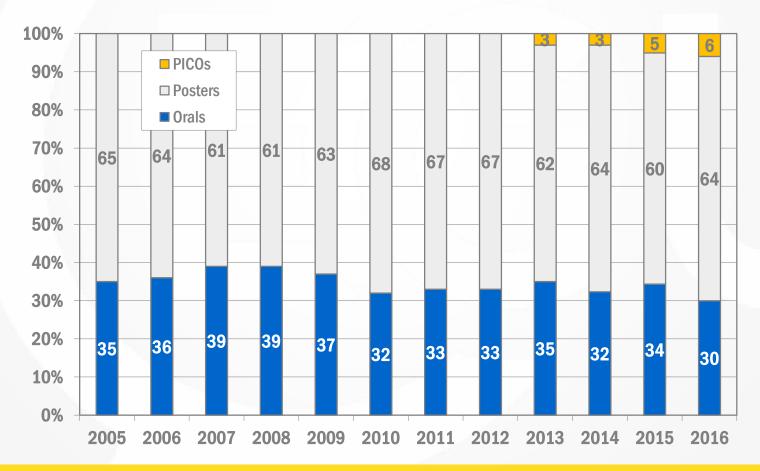


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#### Presentation ratio 2005-2016



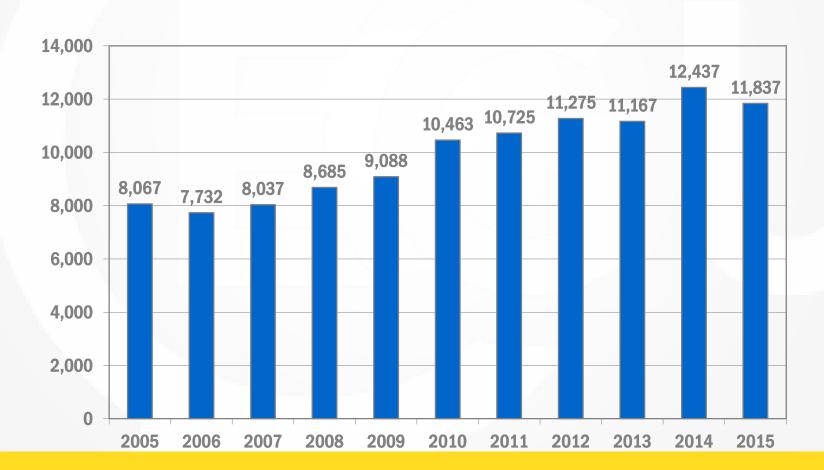


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### Participants at EGU General Assemblies 2005-2015





## Theme of the 2016 General Assembly: Active Planet

- 5 dedicated lectures (Tue, Wed, Thu), Room 0.93
- Photo competition
- GeoCinema



Theme for the 2017 General Assembly?



## **Communication Activities at the General Assembly**

#### **EGU Today**

- EGU Today is a daily newsletter highlighting interesting workshops, lectures and GeoCinema screenings, amongst activities at the Assembly
- Paper copies will be distributed daily and are available to download at www.egu2016.eu/egu\_today

#### Blogs

- GeoLog, the EGU Blog Network & EGU Division Blogs will be sharing great sessions, research, interviews and more throughout the Assembly
- Follow them at geolog.egu.eu and blogs.egu.eu

#### Social Media

- Sessions will be advertised on Twitter (@EuroGeosciences) and Facebook (European Geosciences Union)
- Participants can ask questions & keep updated by following #EGU16 and division-specific hashtags: #EGU2016GM



## **Social Events for Early Career Scientists**

- ECS corner at Opening Reception
- Early Career Scientist Lounge (Red Level), presence of Emma Shuttleworth
- GM division: social evening for Young Geomorphologists in Mozart's on Wed 20th April at 19.30, organised by the "Junge Geomorphologen" from Germany and the Postgraduate Forum of the British Society for Geomorphology.
- GM division Bagnold medal reception: ECS are cordially invited to attend



## **2016 GM Division programme**

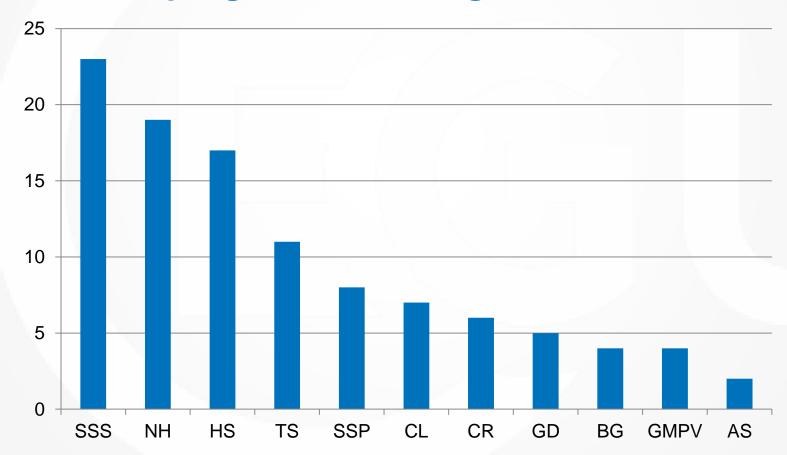
- 69 Sessions in total; 25 GM-led + 40 co-organised + 4 IE sessions
   (2015 GA: 74 in total; 31 GM-led + 43 co-organised)
- 1680 abstracts; 551 in GM-led sessions
   (2015 GA: 1342 abstracts; 494 in GM-led sessions +25% / +11,5%)
- 25 oral slots; 2 PICO sessions (17 sessions have 1 oral slot; 5 sessions have 2)
- On average 22.1 abstracts / session
- New rooms (due to reorganisation of Austria Centre):
   K1 (200-seater), L4/5 (144-seater)

#### Sessions initially proposed

- 100 Sessions in total; 45 GM-led + 55 co-organised
- 1665 abstracts initially submitted; 641 in GM-led sessions



## 2016 GM programme; co-organised sessions





## **EGU Travel Support schemes**

Scheme	Target audience	Approximate Funding allocation	Funding
Early Career Scientist's	Early Career scientists (world wide with earmarked funds for European economically disadvantaged (EED) countries)	EED: 30-35%	<ul> <li>Registration</li> <li>APC</li> <li>Maximum of €300 travel expenses</li> </ul>
Travel Award (ECSTA)		Other countries: 50-60%	
Established Scientist's Travel Award (ESTA)	Established scientists (low and lower middle income countries)	10-20%	



## **GM** Division travel support 2013 - 2016

2013: 12 YSTA applications; 6 awards; 50 % success

2013 overall success rate: 23 %

2014: 79 YSTA applications; 26 awards; 33 % success

2014 overall success rate: 28 %

2015: 31 YSTA applications; 10 awards; 32 % success

2015 overall success rate: 32 %

2016: 57 ECSTA applications, 17 awards; 30% success (1 ESTA)

2016 overall 248 ECSTA + 23 ESTA; success rate: 30%

Key to success: - more & better applications

- consistent and positive evaluation

- implication of session conveners!



#### **Workshops for Early-Career Scientists:**

- Digital Terrain Analysis of Anthropogenic Landscapes with Paolo Tarolli; Wed, 20 Apr, 13:30–15:00 / Room L4/5
- Supervising and tutoring students
   with Taylor Schildgen, Jens Turowski, Veerle Vanacker, Marco Van De Wiel; Tue, 19 Apr, 17:30–19:00 / Room -2.85
- Meet the Master
   with Andreas Lang; Wed, 20 Apr, 17:30–19:00 / Room -2.85
- Publishing in Solid Earth and Earth Surface Dynamics: meet the editors, with Fabrizio Storti and Tom Coulthard; Fri, 22 Apr, 10:30–12:00 / Room -2.61
- Using Bayesian modelling for integrating geochronologies with Richard Chiverrell; Thu, 21 Apr., 17:30–19:00 / Room 0.31
- Soil as a Record of the Past; Reading Soils from the Past, with lan Simpson, Sjoerd Kluiving, Thu, 21 Apr, 08:30–10:00 / Room -2.85



**Medal Lectures** (see further)

#### **Union Session:**

 Interplays between the solid Earth and the hydrosphere, atmosphere, and biosphere Wed, 20 Apr, 08:30–12:00 / Room E1



#### **Interdisciplinary Events**

- Mind the Gap! Techniques to overcome multi-scale issues in geological and geomorphic processes
   Mon, 18 Apr, 08:30–10:00 / Room 0.88
- Interactions between tectonics and surface processes from mountain belts to basins Fri, 22 Apr, 08:30–12:00 / 13:30–15:00 / Room K2
- Geomorphic response to active tectonics: numerical and field-based approaches Thu, 21 Apr, 13:30–17:00 / Room K2
- Tectonics of sedimentary basins Wed, 20 Apr, 13:30–17:00 / Room -2.20



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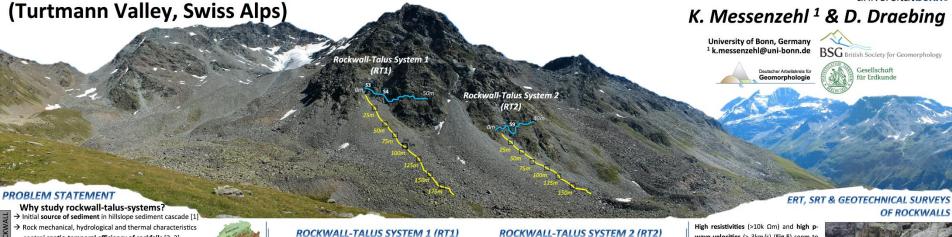


### **GM** Awards and Medals

- Outstanding Student Posters and PICO award (OSPP)
- Outstanding Early Career Scientist award
- Ralph Alger Bagnold medal

Multidisciplinary investigations on coupled rockwall-talus-systems





control spatio-temporal efficiency of rockfalls [2, 3] Control on sediment flux and storage → Major sediment storage in mountains [4] > Indication for rockfall activity (i.e. block size, timing, volume) and bedrock instability [5, 6] Characterisation of rockfall efficiency (i.e. AIM block size, shape) for long-term rockwall erosion and talus slope deposition. STUDY AREA In the Turtmann Valley (South Swiss Alps), two rockwalls and corresponding talus slopes (RT1 and RT2) were investigated (red square: Hungerlihorn, Fig. 1). Rockfall deposits account for 1/8 of debris volume stored in all hanging valleys [7]. RT1 and Fig. 1: The RT2 lie in probable permafrost area [8]. urtmann

#### **METHODS** How to investigate rockwall-talus-systems?

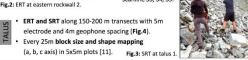


Electrical Resistivity Tomography (ERT) and Seismic Refraction Tomography (SRT) along 40-50m transects with 1-1.25m electrode and geophone spacing (Fig.2).

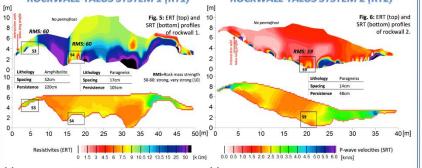
Geotechnical surveys of discontinuities [9] and

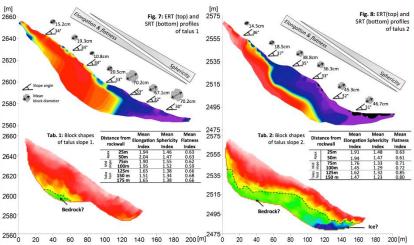
rock mass strength (RMS, [10]) along scanline 53, 54, 59.

Every 25m block size and shape mapping (a, b, c axis) in 5x5m plots [11].



- Rockfall size and shape depend on geotechnical rockwall properties
- II. Rockfall process behaviour is reflected in talus block characteristics → Downslope increase of block sizes and sphericity → large kinetic energy of rockfalls
- III. The local existence of bedrock permafrost cannot be validated
- → No permafrost influence on rockwall stability
   → Unidirectional freezing at near-surface as effective breakdown mechanism [14]





wave velocities (> 3km/s) (Fig.5) seem to correlate with dried bedrock consisting of Amphibolites (53, Fig.10) with large joint spacing (52cm, S3) and long persistences (200cm, S3). In both rockwalls, no permafrost could be found (>5.3km/s would be expected for permafrost [12]).



Fig.9: Western part of rockwall 2 (S4).



wave velocities (<2.5km/s) (Fig. 5,6) seem to be linked to small joint spacing (14-17cm in S4, S9), short persistences (48-105cm) and Paragneiss (Fig.9).

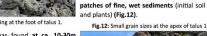
#### **ERT. SRT & BLOCK SIZE MAPPING** ON TALUS SLOPES



Fig.11: Block mapping at the foot of talus 1.

Bedrock depth was found at ca. 10-30m (compare to 15.5-28.8m [13]) in both talus slopes. In RT2, SRT points to possible ice at the talus foot. In comparison, talus1 is characterised by larger, more spherical blocks of Amphibolite (Fig.7, Tab.1) than talus2, where block are smaller and flatter (Fig.8, Tab.2).











#### **GM** Awards and Medals

#### **GM Division Outstanding Young (Early Career) Scientist**

An Early Career Scientists (ECS) is an undergraduate or postgraduate (Masters/PhD) student or a scientist who has received his or her highest degree (BSc, MSc, or PhD) within the past seven years\*.

\* Provided parental leave fell into that period, up to one year of parental leave time may be added per child, where appropriate.

#### Recipients:

2012: Veerle Vanacker

2014: Robert Hilton

2016: Pierre Valla





#### **GM** Awards and Medals

#### Ralph Alger Bagnold Medal

... is reserved for individuals in recognition of their outstanding scientific contribution to the study of geomorphology, by means of:

- a substantive recent contribution to a particular research area
- the originality and innovative nature of the research
- timeliness and significance of the research





2016

### **GM** Awards and Medals

#### Ralph Alger Bagnold Medal – recipients

2008	Kelin Whipple	2009	Gerard Govers
2010	Friedhelm von Blanckenburg	2011	Stuart Lane
2012	Gregory Tucker	2013	James Kirchner
2014	Peter van der Beek	2015	Heather Viles





#### **Medal Lectures**

- Penck lecture by Pierre Valla
   Wed, 20 Apr, 12:15–13:15 / Room L4/5
- Ralph Alger Bagnold Medal Lecture by Niels Hovius Thu, 21 Apr, 19:00–20:00 / Room K1
- Preceded by the GM Division Reception
   Thu, 21 Apr, 18:00–19:00 / Foyer K (Brown Level)





#### **GM** Awards and Medals

#### Ralph Alger Bagnold Medal committee

2015 2016 (proposal)

Paul Bishop (president)

Andreas Lang (president)

Heather Viles Niels Hovius

James Kirchner Heather Viles

Gregory Tucker James Kirchner

(ex-officio: Peter van der Beek, Alberto Montanari / Özgür Karatekin)

... approval required



#### **GM** Awards and Medals

#### Be involved!

- Volunteer as a judge for the OSPP award;
- Nominate promising young colleagues as Outstanding Early Career Scientist;
- Nominate outstanding members of the geomorphology community for the Ralph Alger Bagnold medal;
- EGU is sensitive to (gender) diversity in its awards!

Deadline: 15 June

Simple nomination procedure (1/2 page – 1 page nomination letter, CV, selected bibliography, supporting letters)

All information at: <a href="http://www.egu.eu/awards-medals/">http://www.egu.eu/awards-medals/</a>



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#### **GM Science Officers**

Peter van der Beek (president)

gm@egu.eu

Jens Turowski (deputy, OSPP coordinator)

Kristen Cook (NH)

Dan Parsons (HS, SSP)

Taylor Schildgen (TS, GD)

Arjen Stroeven (CL, CR)

Veerle Vanacker (SSS)

Marco Van De Wiel (HS, BG)

ECS representative: Emma Shuttleworth

Elections for division president this autumn!

(nominations: September; approval by council: October; election:

November)



## **GM Early Career Scientist Representative**

- Current ECS representative for GM: Emma Shuttleworth
- Would prefer to be a team (practice in several other divisions)
- Early Career Scientists get involved!
- Get in touch with Emma ...



## **GM Strategy**

- Comprehensive coverage of geomorphology
- Raise the profile of geomorphology / Earth surface science in Geosciences and beyond
- Work across boundaries with other disciplines / divisions to foster interfaces
- Consolidate EGU as <u>the</u> annual geomorphology assembly
- Develop outreach beyond the EGU General Assembly: ESurf journal, summer schools, topical conferences, ...
- Develop collaborations with other groups and societies promoting geomorphology (IAG, AGU EPSP, National European Societies ...); coorganised sessions at meetings, sponsoring training courses.



## **GM** Division – where are we going

- Sustainable growth
- Increasing quality
- Structuring activities
- Supporting communities
- Building Early Career and Social Networks



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## **GA Survey**

www.egu2016.eu/feedback

- Distribution:
  - via email to participants and EGU members
     GA
  - links on social media & blog
  - egu2016.eu website
  - Flyers/cards in Vienna
- Survey live during GA and until mid June





## 2017 General Assembly – GM Programme

- Session proposals asap, deadline September
- Bottom-up approach; no carrying over of sessions
- Encouraged: Co-organized sessions
  - Sponsored sessions/speakers
  - Interdisciplinary Events
- Session proponents must work to solicit abstracts & ensure delivery
- Session chair duties also include:
  - Travel support selection
  - OSPP



## **EGU** Support for conferences (other than GA)

- Galileo Conferences
- Co-sponsored meetings
  - Conference series
  - Topical meetings
  - Workshops
  - Training schools
  - External meetings
- 2 deadlines for applications : 31 July, 31 December
- See <a href="http://www.egu.eu/meetings/co-sponsored-meetings/">http://www.egu.eu/meetings/co-sponsored-meetings/</a> for all information



### **Galileo Conferences**

#### **Purpose of Galileo conferences:**

- Bring together up to 100 participants for a 3-5 days meeting to discuss a well-focused cutting-edge topic at the frontier of geosciences research in a stimulating environment.
- Possibility to publish a special Galileo Conference proceeding issue in one of the EGU journals

#### Support:

- EGU is putting at disposal the conference organization tools; web hosting, abstract, programme and registration management.
- EGU provides comprehensive organisational support by organizing e.g. venue, poster boards, catering, Wi-Fi facilities, etc. Thereby the organising committee can fully focus on the scientific aspects of the conference.
- Support for Early Career Scientists (up to 5000€)
- EGU is covering a potential deficit of the event.



### **Galileo Conferences**

#### **Rigorous review Process**

2015 call: 9 proposals – 4 rejected in 1<sup>st</sup> round (initial) review; 4 in 2<sup>nd</sup> round review; 1 under negotiation for possible final approval:

"From process to signal – advancing environmental seismology", proponent Jens Turowski

Proposed for June 2017

See: <a href="https://www.egu.eu/meetings/galileo-conferences/">https://www.egu.eu/meetings/galileo-conferences/</a>



# **Outreach and Policy**

 Expertise database; the new Science Policy Fellow, Sarah Connors, asks EGU members who want to become more involved with policy to register on the new EGU expertise database
 www.egu.eu/policy/expertise

Contact email: <a href="mailto:policy@egu.eu">policy@egu.eu</a>; Website: <a href="mailto:www.egu.eu/policy@egu.eu">www.egu.eu/policy@egu.eu</a>;

Public engagement grants; Two excellent projects "to celebrate and recognise science communication in the Earth, planetary and space sciences" were selected for 2016, to be announced at 12:15 on Friday. Applications for 2017 are welcome (after November) at: <a href="http://www.egu.eu/user-area/peg/">http://www.egu.eu/user-area/peg/</a>.



### **Other Announcements**

- EGU GM Blog and Social events for young geomorphologists (Jan-Hendrik Blöthe & Sabine Kraushaar)
- Steepest Descent
- Earth Surface Dynamics (Tom Coulthard)
- News from IAG (Mauro Soldati, IAG Vice-president)
- Jean-Claude Flageollet Award (Thomas Glade, CERG President)
- Subitop (Micha Dietze, GFZ)

Geomorphology GM

EGU Blogs » Divisions » Geomorphology

### Geomorpholo

**(EGU** BLOGS

Sabine Kraushaar · March 3, 2016

Geolog Network Divisions

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Your contributions ome!

Geomorphology (GM)

### Unwind your EGU stre

EGU Guest blogger - April 20, 2016



Solmaz Mohadjer, PhD student at th at EGU while refreshing your knowle More than meets the "I": The Retirement of a Mentor - Young Scientists and Their Inheritance

**EGU** BLOGS



A systemic view with the h

JUNGE GEOMORPHOLOGEN



#### The German Young Geomorphologists

Divisions

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invite all interested young researchers in geomorphology and related fields to join

the 10th international Young Geomorphologists' workshop

at Werbellinsee, Germany (~1 hour North of Berlin)

27th - 29th May 2016

In preparation for the laudation of her retiring mentor - Professor Richard Dikau - Katharina Eibisch from the University of Bonn (Germany) thought about some life lessons she learned throughout her first year as a young researcher.

- written by Katharina Eibisch, University of Bonn -



# Social Event for Geomorphologists





Thanks for joining in!!

Around 100 geomorphologists (young and a bit younger) met at the Mozart's for the 3rd year.

Good spirit, great fun.







### **Steepest Descent**

Saturday, April 23<sup>rd</sup>, University of Vienna

- Joshua West
- Sanjeev Gupta
- Michelle Koppes

Register at:

www.brownpapertickets.com/ event/2473901



### Steepest Descent 6

Saturday, April 23rd, 2016

University of Vienna, Oskar-Morgenstern-Platz 1, Room Sky Lounge U-Bahn U2 & U4: Schottenring



09:00 Welcome

with coffee and croissants

**ΩΟ-1 Joshua West**, University of Southern California

The imprint of erosion on chemical weathering, and its relevance for the long-term carbon cycle and climate

10:30 Coffee break

and discussion around your posters

11:00 Sanjeev Gupta, Imperial College London

Reconstructing ancient landscapes on Mars: Curiosity's exploration of Gale crater.

12:15 Lunch break

and more discussion around your posters

13.15 Michele Koppes, University of British Columbia

When do glaciers shape mountains?

14:30 Closing discussion

and pop-ups to briefly showcase your research and observations

Registration and information at www.brownpapertickets.com/event/2473901 40€ (25€ for students and postdocs) includes coffee and lunch.

contact: steepestdescentmeeting@gmail.com



# **International Association of Geomorphologists Association Internationale des Géomorphologues**

# THE IAG TRAINING PROGRAMME Open Calls for IAG Grants

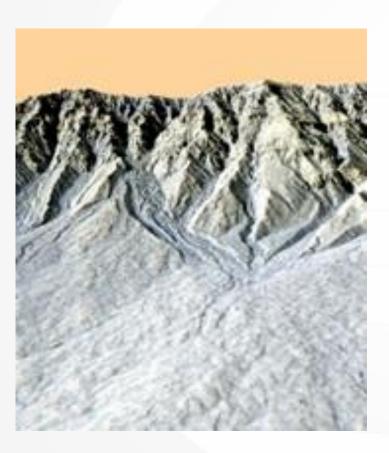
Mauro Soldati
IAG Vice-President and Training Officer soldati@unimore.it



# Workshop on Martian Gullies and their Earth Analogues



Co-organized by the IAG Planetary Geomorphology Working Group London, UK, 20-21 June 2016



2 IAG GRANTS of 250 euros to YOUNG GEOMORPHOLOGISTS (under 35) WORLDWIDE (except UK)

DEADLINE FOR GRANT APPLICATION: 10 MAY 2016

**DETAILED INFORMATION:** 

http://www.geolsoc.org.uk/martiangullies



/AG/AIG

### IAG Tectonic Geomorphology Working Group Summer School 2016

Alps vs. Apennines: Tectonic Geomorphology of Mounta



Italy: Western Alps – Central Apennines
2-9 July 2016



2 IAG GRANTS OF 400 euros
to YOUNG GEOMORPHOLOGISTS
(under 35) WORLDWIDE (except
Italy)

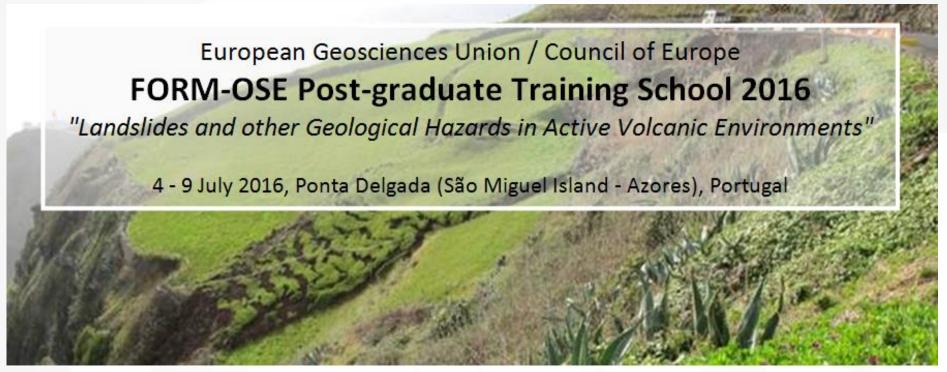
- DEADLINE FOR GRANT APPLICATION: 10 MAY 2016
- DETAILED INFORMATION ON PROGRAMME AND FEES ARE AVAILABLE ON THE IAG WEBSITE:

Applications to be submitted to Marta Della Seta marta.dellaseta@uniroma1.it









1 IAG GRANT of 400 euros to YOUNG GEOMORPHOLOGISTS (under 35) WORLDWIDE (except Portugal)

**DEADLINE FOR GRANT APPLICATION: 10 MAY 2016** 

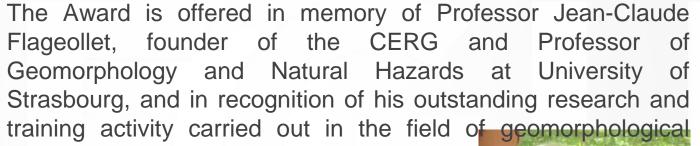
http://formose2016.wix.com/formose2016 **DETAILED INFORMATION:** 



### Council of Europe - EUR-OPA Major Hazards Agreement European Centre on Geomorphological Hazards Centre Européen sur les Risques Géomorphologiques







hazards.

The Award will be delivered on a yearly basis since 2016.

Potential awardees are PhD students whose research project focuses on geomorphological hazards (landslides, floods, coastal erosion) and who participate in the EGU General Assembly.

# The 2016 Jean-Claude Flageollet Award



To

### MANON BESSET

CEREGE, University of Aix-Marseille

in recognition of her young career on 'The analysis of river delta morphodynamics, vulnerability and rehabilitation'



### PhD student in Coastal Geomorphology

**Research topic:** Recent morphodynamics changes affecting sixty river and fluvio-marine deltas through the analysis of the correlation between coastal erosion and temporal trends of extreme events(storms and cyclones, rising sea level, and major anthropogenic impacts, notably sediment supply deficit from rivers to their deltas arising from retention by dams, dredging, and canalization).

# The 2016 Jean-Claude Flageollet Award



To

### ODIN MARC

IEES, GFZ / University of Potsdam

in recognition of his young career on 'The understanding and prediction of coseismic and post-seismic landsliding'



### PhD student in mountain geomorphology and active tectonics

**Research topic:** Developing a quantitative understanding on how earthquakes can induce landslides in tectonically active regions, by integrating seismological understanding of ground shaking into landslide hazard prediction, and by combining remote sensing with geophysical techniques (GPS, seismic ambient noise correlations) to monitor and forecast the evolution of landslide susceptibility after major earthquakes.

# **15** ESR positions for **Earth scientists**

SUBITOP – a Marie Curie-Skłodowska Actions ETN project

www.subitop.eu

Train 15 Early Career Researchers in concepts, techniques, management skills, connections.

Advance scientific understanding of how surface processes interact with crustal tectonics and mantle geodynamics at different length- and time- scales in subduction systems.

