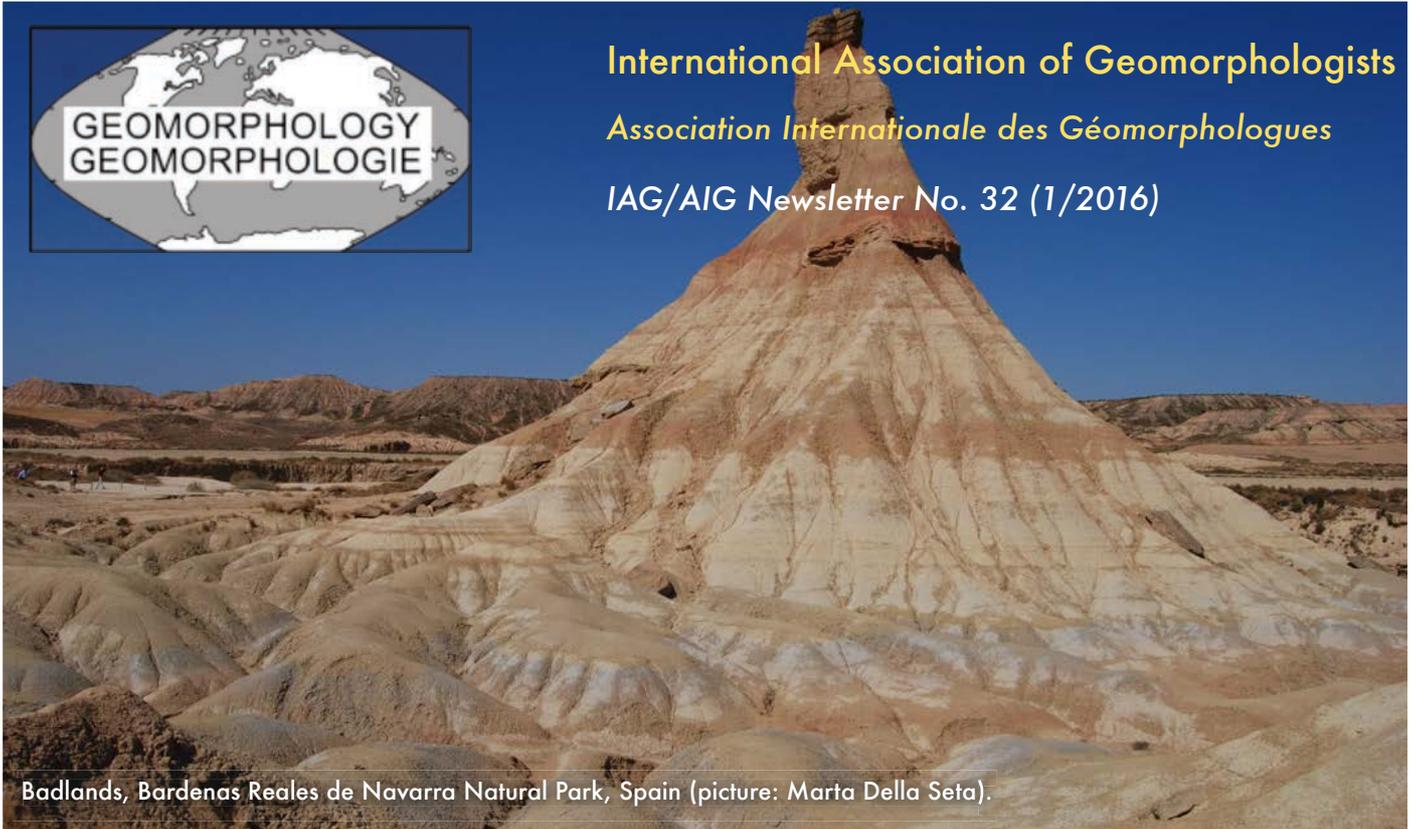


International Association of Geomorphologists

Association Internationale des Géomorphologues

IAG/AIG Newsletter No. 32 (1/2016)



Badlands, Bardenas Reales de Navarra Natural Park, Spain (picture: Marta Della Seta).

Editorial

This first issue 2016 of the IAG Newsletter is specifically dedicated to the activities of the working groups. The working groups have been established as means to develop research and innovation in geomorphology and to explore new fields of research. Currently, thirteen working groups are active, and eleven other groups were active in the past. Four working groups have been approved during the last International Conference on Geomorphology in Paris: dendrogeomorphology; landform assessment for geodiversity; submarine geomorphology; tectonic geomorphology. The working groups are key elements of the IAG organisation and development. May I ask the chairmen not to forget to advertise new events and to report on their activities on the IAG website and newsletter. A quick look on the IAG website shows that unfortunately it is not the case of all working groups.

Emmanuel Reynard, IAG/AIG Publications Officer

Word of the President

The Working Groups of the IAG are the main factor of development and innovation of our discipline and association. Many of them will participate from 21 to 25 August 2016, in Beijing, in the 33rd International Geography Conference (www.icg2016.org); the next executive committee of the IAG will be held as well during this event. In the perspective of the 9th International Conference on Geomorphology "Geomorphology & Society" that will take place in Vigyan Bhawan, New Delhi, from 6 to 11 November 2017 (www.icg.com) and our general assembly, I kindly ask our community to get into action and take the initiative of having new groups. Please don't hesitate to contact us in that regard. Join us in Beijing and be present at all events organized by our working groups and get enrolled for Delhi!

Les groupes de travail de l'AIG sont le principal facteur de développement et d'innovation de notre discipline et de notre association. Du 21 au 25 août prochain à Pékin, plusieurs d'entre eux participeront à la 33e Conférence Internationale de Géographie (www.icg2016.org), événement durant lequel se tiendra également le prochain comité exécutif de l'AIG. Dans la perspective de la 9e Conférence internationale de géomorphologie « Géomorphologie et Société » qui aura lieu à Vigyan Bhawan, New Delhi, Inde, du 6 au 11 novembre 2017 (www.icg.com), et de l'assemblée générale, je demande à notre communauté de se mobiliser pour prendre l'initiative de nouveaux groupes. N'hésitez pas à nous contacter à ce sujet si vous avez des questions ! Venez nombreux à Pékin et à tous les événements organisés par nos groupes de travail et inscrivez-vous pour Delhi !

Eric Fouache, IAG/AIG President

Editor's Note

The success of the IAG/AIG Newsletter depends upon the contributions that we receive. On behalf of IAG/AIG we would ask you to assist us by supplying information related to the forthcoming activities and innovations in geomorphology in your respective countries (commentaries, reviews of regional or national meetings and field trips, summaries of issues pertinent to geomorphology and announcements of future meetings and workshops). Your contributions should be forwarded to the IAG/AIG Publications Officer.

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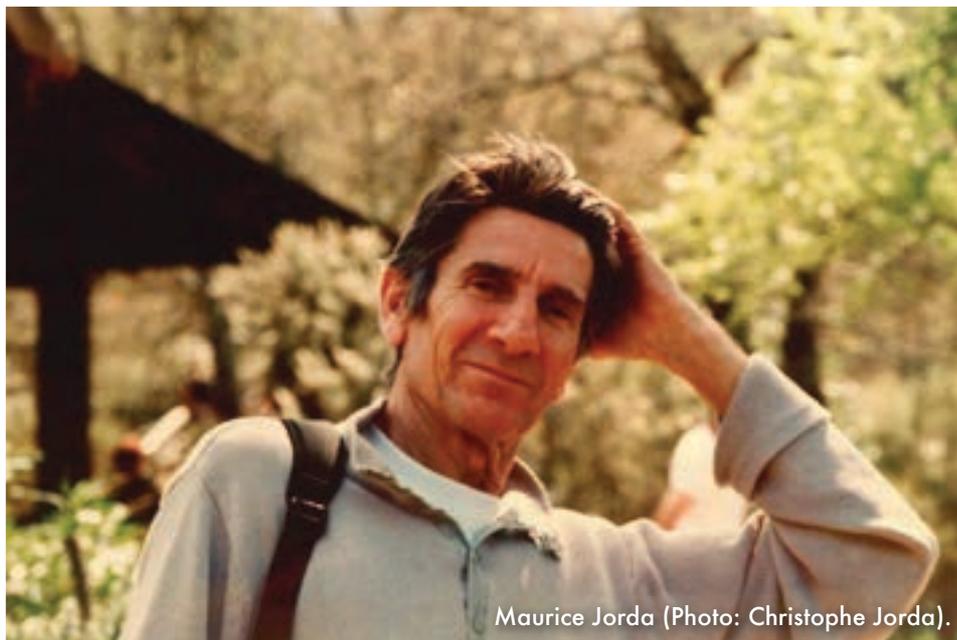
Hommage à Maurice Jorda (1938-2015)

Géomorphologue, enseignant-chercheur à l'Institut de Géographie de l'Université d'Aix-Marseille, Maurice Jorda eut le parcours d'un enfant de la République. Né en 1938, il fut élève à l'École Normale d'Aix en Provence, instituteur en 1961, professeur certifié en 1964, puis agrégé de géographie en 1965. Il intégra l'Institut de Géographie d'Aix-en-Provence en 1967 en tant qu'Assistant, devint Maître-Assistant en 1971, puis fut nommé Maître de Conférences en 1985. Il y exerça jusqu'à sa retraite en 2002.

Il fut un acteur majeur de l'école de géographie physique aixoise, spécialiste renommé de la géomorphologie alpine. Son champ de recherche fut celui de l'évolution des paléoenvironnements pléistocènes et holocènes dans les Alpes du Sud et la Provence. Ses thématiques de recherche ont évolué au fil de sa carrière, reflétant sa formation initiale en géologie puis ses collaborations avec de nombreux autres chercheurs, issus de la géographie, mais aussi de l'archéologie et de la paléoécologie. Ses travaux se sont ainsi articulés autour de plusieurs thèmes : la néotectonique sur le front subalpin de Digne, le Pléistocène des Alpes françaises méridionales, l'évolution morphoclimatique tardi- et postglaciaire des environnements alpins et nord-méditerranéens et la recherche des causalités – naturelles et anthropiques – responsables de l'évolution des milieux.

Maurice Jorda est l'auteur de très nombreuses publications scientifiques, ouvrages, articles et cartes géologiques, des travaux qui font encore référence et constituent le substrat incontournable des études actuelles sur les paléoenvironnements alpins et méditerranéens. Pédagogue d'exception, Maurice JORDA reste dans la

mémoire des anciens étudiants comme l'un des meilleurs enseignants de l'Institut de Géographie d'Aix en Provence. Il a su susciter des vocations, former des chercheurs et des enseignants-chercheurs. Tous ses anciens étudiants, même s'ils n'ont pas poursuivi de carrière universitaire, se souviennent avec joie de son enthousiasme et de son énergie, de son plaisir à transmettre, de la clarté de ses enseignements, de sa disponibilité et sa gentillesse... et de la difficulté à le suivre lorsqu'il escaladait les moraines au pas de course, son marteau de géologue à la main, lors des sorties de terrain !



Maurice Jorda (Photo: Christophe Jorda).

Une page de la géomorphologie de terrain se tourne avec la disparition de Maurice Jorda, un scientifique humaniste, à qui nous devons tous beaucoup et dont nous nous souvenons avec beaucoup d'émotion.

Cet hommage est publié dans la revue *Physio-Geo* : <https://physio-geo.revues.org/>

Cécile Miramont, *Université d'Aix-Marseille, France*; Thierry Rosique, *Université de Strasbourg, France*; Christophe Jorda, *INRAP, France*

Obituary for Giuliano Rodolfi

(29 September 1937 – 19 November 2015)

The untimely and sudden death of Giuliano Rodolfi on November 19, 2015 has robbed the community of Geomorphologists, Geologists, Soil Scientists, and Geoarchaeologists of a distinguished scholar and outstanding researcher as well as a beloved teacher, colleague and friend.

Giuliano Rodolfi was born in San Piero, Florence, on the 29th of September 1937. After finishing his studies of geology at Florence University in 1966, he was a high school teacher from 1967-1974, when he developed his excellent didactic skills. In 1974 he was nominated as a researcher at the National Research Institute for Soil Studies and Conservation of the Ministry for Agriculture and Forests in Florence. There, he was responsible for the experimental

site in Fagna (Scarperia, Florence) and part of the Pedogenesis, Soil classification and Soil Cartography Section. In 1979 he started teaching at the Faculty of Agricultural Sciences at Florence University; his courses and seminars covered mineralogy and geology, and, starting in 1981, Geomorphology of the Tropics and Subtropics. In 1988 he was appointed as Associate Professor for Lithology and Geomorphology of the Tropics and Subtropics at the Faculty of Agricultural Sciences, Florence University. In the following years, he was also appointed lecturer for Physical Geography and Applied Geology at the Italian Institute for Military Geography (1993-2000), lecturer for Geomorphology at Pisa University (1994-1996), as well as lecturer for Geomorphology and Soil Preservation (1985-1994) and for Photointerpretation and Remote Sensing (1995-2013) both at the Overseas Agronomic Institute, Florence (1995-2013). In 1999 he was nominated Chair and Ordinary Professor for Physical Geography and Geomorphology. Giuliano Rodolfi retired in 2009.

As one of the leading Italian geomorphologists he published more than 150 national and international scientific publications on a broad variety of topics including soil and geomorphological cartography, soil conservation and land evaluation, as well as environmental impact studies of large infrastructures. The main focus of his work was dedicated to soil-landscape relations and processes. He authored and edited books and chapters in international journals, including *Environmental Geomorphology*, *Geomorphological Hazards* (ed. Elsevier, Amsterdam) and *Environmental Change and Geomorphic Hazards in Forests* (ed. CABI Publishing, Vienna). In addition, he was co-author of an Italian introductory textbook to soil science (*Il suolo - Pedologia nelle Scienze della Terra e nella Valutazione del Territorio*, ed. Nuova Italia Scientifica). He also worked as a reviewer for several scientific journals and was part of the advisory board of the French *Geéomorphologie* and the Romanian *Analele Universitatii Spiru Haret Bucuresti* journals, as well as several Latin American journals.

Giuliano Rodolfi participated in numerous national and international projects. He was coordinator of three major national projects (PRIN) on soil erosion in the Mediterranean (2004-2009) and local coordinator of two large EU projects (1997-2001) titled "Integrated Water Resources Management System (IWRMS)" focusing on Southern

Africa, and "Applied Remote Sensing and GIS Integration for Model Parameterization (ARSGISIP)" concentrating on the Mediterranean and Central Europe.

Apart from his local and regional European research interests, Giuliano Rodolfi also conducted several scientific expeditions and excursions with geomorphological focus to Africa, South America, Australia and Asia. Especially in later years, he organized international collaborations with the National University of Santiago, Chile, and with the Ethiopian Institute for Water Resources in Addis Ababa, Ethiopia.

His international scientific activities never distracted him from his concerns about environmental issues in the region he lived in, the Mugello Valley, North of Florence. Hence, one of the last works he finished just last year was dedicated to the Mugello landscape: *Il Mugello e la Sieve - storia antica e moderna di un paesaggio che scompare* (Edizioni del Filo, 2014). It is an excellent example for the holistic approach and understanding of landscapes Giuliano taught us throughout his life.

For all his scholars it was a great pleasure and a true gift to have the chance to work with Giuliano Rodolfi, who was distinguished by his humility, patience and unfaltering enthusiasm for his work. Giuliano Rodolfi is survived

by his wife Fiorella and his two daughters, Liliana and Alessandra, as well as three grandchildren.

Michael Maerker, *University of Florence, Italy*



Giuliano Rodolfi (Photo: Michael Maerker).

European Geosciences Union Awards

Several Awards and Medals have been delivered to geomorphologists during the EGU General Assembly 2016 (More information: <http://www.egu.eu/awards-medals/awards-and-medals/>):

- The 2016 Ralph Alger Bagnold Medal has been awarded to Niels Hovius for outstanding research in the field of Earth surface science, as well as for being a key figure in European geomorphology and a versatile interdisciplinary scientist.
- The 2016 Sergey Soloviev Medal has been awarded to Irasema Alcántara-Ayala for her outstanding contribution to the basic knowledge of natural hazards, vulnerability and prevention of disasters in developing countries.
- The 2016 Division Outstanding Young Scientists Award has been awarded to Pierre Valla for his contributions to the study of surface processes and landscape evolution through innovative dating approaches.

Congratulations to all these geomorphologists!

Jean-Claude Flageollet Award 2016

The Jean-Claude Flageollet Award 2016 was delivered during the EGU Geomorphology Division Meeting in Vienna, 21 April 2016. The Award is offered by the European Centre on Geomorphological Hazards (CERG) of the Council of Europe in memory of Professor Jean-Claude Flageollet, founder of the CERG and Professor of Geomorphology and Natural Hazards at the University of Strasbourg, and in recognition of his outstanding research and training activity carried out in the field of geomorphological hazards (see IAG Newsletter 31/1-2). It will be delivered on a yearly basis since 2016.

Awardees are Manon Besset (University of Aix-Marseille, France) and Marc Odin (University of Potsdam, Germany). Manon Besset is PhD student in Coastal Geomorphology and she studies recent morphodynamics



Manon Besset receiving her prize from Thomas Glade, CERG President (Photograph: Mauro Soldati).

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



Marc Odin receiving his prize from Thomas Glade, CERG President (Photograph: Mauro Soldati).

from retention by dams, dredging, and canalization). Marc Odin is PhD student in mountain geomorphology and active tectonics and his research aims at 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.

During the ceremony the Awardees have also been delivered a letter of congratulations by Eric Fouache, IAG President.

Mauro Soldati, IAG/AIG Vice-President and Training Officer

Romanian Association of Geomorphologists

Founded as a legal personality in November 1990, but organizing yearly the National Symposiums of Geomorphology since 1972 (with few exceptions, mostly throughout the 1970s), the Romanian Association of Geomorphologists (RAG) is one of the most active scientific organizations among the geosciences branches in Romania.

Its goals, besides being part of the decision-making and legislation processes related to terrestrial environment organization and protection, are to promote Romanian geomorphologists activity and results, to initiate and conduct fundamental and applied geomorphology-related research projects, to organize national and international scientific conferences, to publish scientific literature and to award the outstanding scientific results of its members.

Facing the modern, ever-growing scientific requirements and challenges, RAG has recently intensified its involvement in both scientific publications and consulting services. Within the newly-elected (May 2015) Executive Board of RAG, a major share is held by young geomorphologists, elected based on both scientific achievements and on their willingness to maintain and develop one of the most important national geosciences branches throughout the last century. Thus, a new website has been developed (<http://www.geomorphology.ro/>) greatly improving RAG's visibility and offering to those interested a comprehensive overview on its history, research and educational resources, as well as publications, consulting services and useful scientific links. In the meantime, a new website has been devoted to the peer-reviewed Journal published by RAG, *Revista de Geomorfologie (RG)* (<http://www.revistadegeomorfologie.ro./index.php/journal>). Publishing in English and French original and high-quality peer-reviewed papers in all the fields of Geomorphology, RG is presently undergoing the process of Thompson Reuters indexation, being currently indexed in several international databases.

The work is organized in 10 research areas (Dendrogeomorphology, Coastal Geomorphology, Fluvial Geomorphology, Mountain Geomorphology, Geomorphometry, Geomorphosites, Geomorphological Hazards and Risks, Paleogeomorphology, Hillslope Geomorphology) and relies on the valuable expertise of more than 100 members, deeply involved in both national and international research and educational endeavors.

While the last National Symposium on Geomorphology was organized in May 2015 in the amazing landscape of the Danube Delta (hosted by the University of Bucharest - Sf. Gheorghe Marine and Fluvial Research Station; <http://www.geomorphology.ro/sng-2015-sf-gheorghe-delta/>), the next event will take place in Piatra Neamt (May 19-22, 2016) and will be dedicated to one of the oldest and most prominent Research centres in Romania, namely "Stejarul" Biology-Geology-Geography Research Station.

Mihai Micu, Vice-President, Romanian Association of Geomorphologists



Fieldtrip during the SNG 2015, Sf. Gheorghe Delta (Photo: Emil Vespremeanu)

Young Geomorphologists

IAG Grants for BSG Post-Graduate Training Workshop, Windsor, UK, 7-10 December 2015

IAG offered 2 grants of 250 Euros to PhD students in geomorphology from Europe (except UK) who took part in the BSG Post-Graduate Training Workshop (Windsor, UK, 7-10 December 2015). The Workshop was organised by the British Society for Geomorphology (BSG) and recognised by the International Association of Geomorphologists. The course provided PhD students with elements of training for research and with an opportunity to meet others at an early stage of their training when they were wrestling with the problems of research design etc. IAG Grants have been awarded to the following candidates:

- Ilenia Maria D'Angeli (Italy)
- Jure Ticar (Slovenia)

Their reports are available on

<http://www.geomorph.org/2015/11/iag-grants-for-bsg-post-graduate-training-workshop-windsor-uk-7-10-december-2015/>

IPA-IAG Agreement – Early Career Researcher Conference Travel Grants for ICOP 2016

According to the recently established IPA-IAG Agreement, the International Association of Geomorphologists (IAG/AIG) offered 2 grants of 300 euros to Early Career Researchers to take part in the 11th International Conference on Permafrost (ICOP2016), Potsdam, Germany, 20–24 June 2016. The selection of candidates has been carried out by a Commission appointed by the IAG and IPA Executive Committees. 12 eligible applications were received for the grants available. IAG Grants have been awarded to the following candidates:

- Raul David Șerban (Romania)
- Ingo Hartmeyer (Austria)

Forthcoming Calls for IAG Grants

IAG grants will be offered to favour participation of Young Geomorphologists in the following events:

Summer School 2016 organized by the IAG Tectonic Geomorphology Working Group "Alps vs. Apennines: Tectonic Geomorphology of Mountains", Italy: Western Alps – Central Apennines, 2-9 July 2016

Grants offered: 2 grants of 400 euros each
 Recipients: Young Geomorphologists worldwide (except Italy)
 Deadline for application: 10 May 2016

EGU/CERG FORM-OSE Post-Graduate Training School 2016 "Landslides and other Geological Hazards in Active Volcanic Environments", São Miguel Island, Azores (Portugal), 4-9 July 2016

Grants offered: 1 grant of 400 euros
 Recipients: Young Geomorphologists worldwide (except Portugal)
 Deadline for application: 10 May 2016

Workshop on Martian Gullies and their Earth Analogues, co-organized by the IAG Planetary Geomorphology Working Group, London, UK, 20-21 June 2016

Grants offered: 2 grants of 250 euros each
 Recipients: Young Geomorphologists worldwide (except UK)
 Deadline for application: 10 May 2016

More information and application forms:

<http://www.geomorph.org/category/yg/grants/open-calls/>

Mauro Soldati, IAG/AIG Vice-President and Training Officer, Marta Della Seta, IAG/AIG Executive Committee Member and Webmaster

Working Group

In this issue, we present the activity reports sent by several working groups.

Tectonic Geomorphology Working Group

Annual report 2015

The IAG Working Group "Tectonic Geomorphology" was established during the 8th International Conference on Geomorphology, held in Paris on August 2013, on proposal of the organizing Committee composed by Monique Fort (Université Paris Diderot, France), Giandomenico Fubelli (Università di Roma TRE, Italy), José Miguel Azañón Hernández (Universidad de Granada, Spain), Francisco Gutiérrez (Universidad de Zaragoza, Spain) and Paola Fredi (La Sapienza Università di Roma). Since that time the number of members has increased as well as their geographical provenance.

As stated at the moment of its constitution the main aims of the WG are:

- the methodological improvements as a result of the comparison and integration of different approaches and disciplines;
- promoting international cooperation, training activity and thematic workshops.

The main activities of the WG in 2015 have been focused on the organization of the session "Catastrophism and Gradualism in Tectonic Geomorphology" that was successfully held during the IAG Regional Conference (Barnaul, Russia, 2-4 July 2015). The main aim of the session was to present and promote multidisciplinary and innovative studies on Tectonic Geomorphology in different geodynamic contexts. The session was opened by the remarkable invited Keynote "Formation of upslope-facing normal fault scarps in the compressional neotectonics environment" by Professor Alexander Strom (Geodynamic Research Center - branch of JSC "Hydroproject Institute", Russia). Interesting oral presentations and posters by researchers from China, Russia, India, Greece and Italy followed.

Most efforts have also been devoted to the organization of:

- the session "Geomorphic response to active tectonics: numerical and field-based approaches" (Convener: Alain Demoulin, Co-Conveners: Marcello Schiattarella, Liran Goren, Vivi Kathrine Pedersen, Jean Braun) that was held during the 2016 EGU General Assembly, 17-22 April 2016, in Vienna.
- the first WG Summer School 2016 "Alps vs Apennines: Tectonic Geomorphology of Mountains" that will be held at Peveragno, Piemonte region and at Assergi, Central Apennines (Italy), in the period July 2-9, 2016. It is a training school for students and early career scientists involved in tectonic geomorphology studies. It aims to offer a comprehensive overview of pioneering techniques, innovative and multidisciplinary approaches for meeting the growing needs of knowledge on both long-term tectonic uplift and sudden geomorphological events. A group of expert teachers from different countries will present the state of the art on Morphotectonics and related methods (thermochronology, dynamic topography, geomorphometry and geomorphological mapping, radar interferometric applications, crustal mobility and seismotectonics, neotectonics and slope instabilities). Prof. Marco Giardino and Giandomenico Fubelli - Dipartimento di Scienze della Terra, Università di Torino, Italy - are in charge for the organization of the event. John Clague (Simon Fraser University, Burnaby, Canada), Tim Davies (University of Canterbury Christchurch, New Zealand), Monique Fort (Université Paris Diderot, France, France), Paola Fredi (La Sapienza Università di Roma, Italy), Fabrizio Galadini (Istituto Nazionale di Geofisica e Vulcanologia (INGV), Italy), Marco Giardino (Università di Torino, Italy) and Efthimios Karymbalis (Harokopio University of Athens, Greece) are the members of the Scientific Committee.

Paola Fredi, *Department of Earth Sciences, Sapienza University of Rome, Italy*

Selection of recent papers by Tectonic Geomorphology WG Members

Aucelli P.P.C., D'Argenio B., Della Seta M., Giano S.I., Schiattarella M. (2014). Foreword. Intermontane basins: Quaternary morphoevolution of Central-Southern Italy, *Rendiconti Lincei*, 25 (2), 107-110. DOI 10.1007/s12210-014-0356-3 journal ranking: Q3)

Azañón, J.M., Galve, J.P., Pérez-Peña, J.V., Giaconia, F., Carvajal, R., Booth-Rea, G., Jabaloy, A., Vázquez, M., Azor, A., Roldán, F.J. (2015). Relief and drainage evolution during the exhumation of the Sierra Nevada (SE Spain): Is denudation keeping pace with uplift?. *Tectonophysics*, 663, 19-32.

Beckers, A., Bovy, B., Hallot, E., Demoulin, A. (2015). Controls on knickpoint migration in a drainage network of the moderately uplifted Ardennes Plateau, Western Europe. *Earth Surface Processes & Landforms*, 40, 357-374.

Calzolari G., Della Seta M., Rossetti F., Nozaem R., Vignaroli G., Cosentino D., Faccenna C. (2016), Geomorphic signal of

active faulting at the northern edge of Lut Block: insights on the kinematic scenario of Central Iran, *Tectonics*, 35, 76-102. DOI: 10.1002/2015TC003869 (journal ranking: Q1)

Calzolari G., Rossetti F., Della Seta M., Nozaem R., Olivetti V., Balestrieri M.L., Cosentino D., Faccenna C., Stuart F.M., Vignaroli G. (2015). Spatio-temporal evolution of intraplate strike-slip faulting: The Neogene-Quaternary Kuh-e-Faghan Fault, Central Iran, *Geological Society of America Bulletin*, B31266. 1.

Chacón, F. F., Notti, D., Galve, J. P., Pérez, J. V., Azañón, J. M., Mateos, R. M., ... & Gómez-López, J. M. (2015) técnicas remotas para el análisis multiescala y multitemporal de fenómenos superficiales. XIV Reunión Nacional de Cuaternario, Granada

Cyr A. J., Granger D. E., Olivetti V., Molin P. (2014), Distinguishing between tectonic and lithologic controls on bedrock channel longitudinal profiles using cosmogenic ¹⁰Be erosion rates and channel steepness index. *Geomorphology*, 209, 27-38, DOI: 10.1016/j.geomorph.2013.12.010

- Della Seta M., Esposito C., Menichetti M., Scarascia Mugnozza G., Troiani F. (2016). Morphoevolution of slope-to-channel systems in active extensional domains: testing the potential of basin and river profile metrics in the inner sector of the Apennines (Italy), *Geophysical Research Abstracts* Vol. 18, EGU2016-5918, 2016 EGU General Assembly 2016
- Demoulin A., Altin T., Beckers A. (2013). Morphometric age estimate of the last phase of accelerated uplift in the Kazdag area (Biga Peninsula, NW Turkey). *Tectonophysics*, 608, 1380-1393.
- Demoulin, A., Beckers, A., Hubert, A. (2015). Patterns of Quaternary uplift of the Corinth rift southern border (N Peloponnese, Greece) revealed by fluvial landscape morphometry. *Geomorphology*, 246, 188-204.
- Ferrater, M., Booth-Rea, G., Pérez-Peña, J.V., Azañón, J.M., Giaconia, F., Masana, E. (2015). From extension to transpression: Quaternary reorganization of an extensional-related drainage network by the Alhama de Murcia strike-slip fault (eastern Betics). *Tectonophysics*, 663, 33-47.
- Fort M., Adhikari B.R., Stolle A., Schwanghart W., Korup O. (2015). Catastrophic mountain wall collapses in the Nepal Himalayas: a review, with focus on Pokhara valley. Extended abstracts of the IAG Conference on « Gradualism versus Catastrophism in Landscape Evolution, Barnaul, Russia. pp. 15-18.
- Galli P., Giaccio B., Messina P., Peronace E. (2016). Three magnitude 7 earthquakes on a single fault in central Italy in 1400 years, evidenced by new palaeoseismic results. *Terra Nova* 28-2, 146-154, doi: 10.1111/ter.12202
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- Justo, J.L., Castro, D., Azañón, J.M., Saura, J., Durand, P., Romero, E., Vázquez-Carretero, N., Morales-Esteban, A., Vázquez-Boza, M., Justo, E. (2014). Environmental and mechanical aspects of an anchored mesh for stabilisation of a cliff at La Alhambra. *Bulletin of Engineering Geology and the Environment*, 73 (2), pp. 667-685.
- Liu, S., Zhang, S., Ding, R., Ren, J., Liu, H., Jiang, D., Xie, F. (2015). Upper crustal folding of the 2013 Lushan earthquake area in southern Longmen Shan, China, insights from Late Quaternary fluvial terraces. *Tectonophysics*, 639, 99-108.
- Mancilla, F.L., Booth-Rea, G., Stich, D., Pérez-Peña, J.V., Morales, J., Azañón, J.M., Martín, R., Giaconia, F. (2015) Slab rupture and delamination under the Betics and Rif constrained from receiver functions. *Tectonophysics*, 663, pp. 225-237.
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SEDiment BUDgets in cold environments (SEDIBUD) Working Group

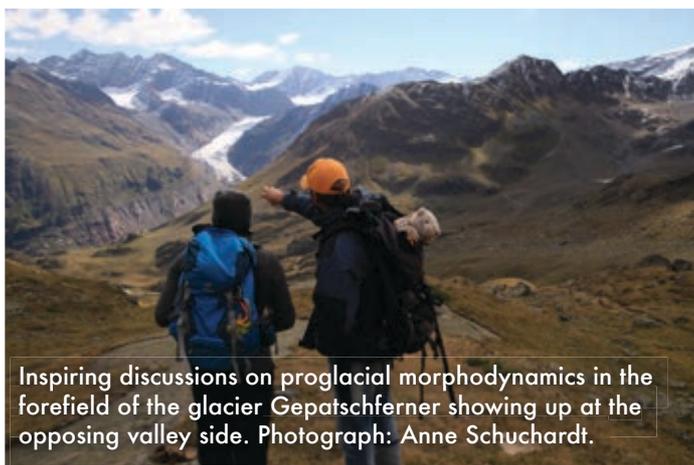
Report of the 9th SEDIBUD workshop Sediment Dynamics in Cold Climate Environments, Gepatschhaus, Kaunertal, Tyrol/Austria, September 7-10, 2015

The IAG/AIG Working Group SEDIBUD (SEDiment BUDgets in Cold environments), founded in 2005, aims at a better understanding of earth surface systems modification in relation to climate change. It aims to reach this objective with the use of the observation and quantification of past and present-day erosion, transport and deposition of sediments and fluxes.

From September 7 to 10, 2015, 20 participants met during a workshop held at the Alpine hut "Gepatschhaus" in the upper Kaunertal valley (Tyrol/Austria). The workshop was organised by David Morche and Sabine Kraushaar. It was composed of paper and poster sessions covering a wide range of different cold climate environments as well as



Group picture of SEDIBUD-participants. Photograph: Anne Schuchardt.



Inspiring discussions on proglacial morphodynamics in the forefield of the glacier Gepatschferner showing up at the opposing valley side. Photograph: Anne Schuchardt.

extended working group discussions. During a one-day field excursion through the Riffeltal valley and to the retreating glacier tongue of the Gepatschferner, rockglacier and proglacial sediment dynamics were presented and discussed.

Workshop participants joined from 9 countries and 11 research institutes, both from Europe and overseas. The SEDIBUD Working Group addressed central issues during this workshop concerning recent research progress report of SEDIBUD participants.

Key issues and plans for the coming years

Conference Sessions

- Session at the European Geosciences Union (EGU) General Assembly, Vienna, Austria, 17-22 April 2016: As in the previous years, a scientific conference session on Sedimentary source-to-sink fluxes and sediment budgets, convened by A.A. Beylich, D. Morche, K. Laute and A. Decaulne is proposed within the Geomorphology Programme of EGU 2016.
- Session at the 9th International Conference on Geomorphology, New Delhi, India, 6-11 November 2017: As at the previous ICGs, a conference session on Sediment budgets in cold environments (IAG-WG) will be organized. The scientific session will be convened by A.A. Beylich and F. Lavigne.

Publications

- Status of the SEDIBUD Synthesis Book: The SEDIBUD Synthesis Book on Source-to-sink fluxes in undisturbed cold environments, edited by A.A. Beylich, J.C. Dixon and Z. Zwolinski is now in production at Cambridge University Press (Cambridge, UK).
- Special Issue arising from the SEDIBUD Workshop in 2014: A Special Issue to the journal *Geomorphology* (Morche, D., Krautblatter, M. and Beylich, A.A. (Eds.): Sediment cascades in cold climate geosystems) arising from the 8th SEDIBUD Workshop that took place at the Zugspitze in Germany in 2014 is currently in preparation. Manuscripts submitted to this Special Issue are currently under review.
- Report on the 9th SEDIBUD Workshop in the Kaunertal, Tyrol / Austria, 2015: A scientific report is published in this Newsletter. The Proceedings are published on the IAG website under <http://www.geomorph.org/wg/wgsb.html>.
- SEDIBUD Synthesis Paper: A SEDIBUD Synthesis Paper, integrating process geomorphologic work of SEDIBUD Members carried out at defined SEDIBUD Key Test Sites will be prepared over the coming two years by a selected group of SEDIBUD Members. The preparation of this synthesis paper will be led by A.A. Beylich and the manuscript shall be submitted to a leading international journal.

Meetings

- The 10th SEDIBUD workshop will be held in Bulgaria (Vihren peak in Pirin and Banderitsa valley) in September 2016. Further information on the workshop and on the SEDIBUD program can be found at <http://www.geomorph.org/wg/wgsb.html>.
- The 11th and final SEDIBUD Workshop will be organized by Romanian colleagues (O. Pop et al.) and will be held in a mountain chalet in the Fagaras Mts. (Balea Glacial Valley, Cabana Paltinu) located at about 2000 m a.s.l. in Romania in early September 2017. A First Circular for this Workshop will be distributed in early December 2016.

David Morche, *Martin-Luther University Halle-Wittenberg & Catholic University Eichstätt-Ingolstadt, Germany*, Achim A. Beylich, *Geological Survey of Norway, Trondheim, Norway*, Sabine Kraushaar, *University of Vienna, Austria*

Red Beds and Danxia Geomorphology Working Group

Report of the Third International Symposium on Danxia Landform, Jiangshan City, Zhejiang Province, China, September 21–23, 2015

The Third International Symposium on Danxia Landform was successfully held in Jiangshan City Zhejiang Province, China, September 21st to 23rd, 2015. The three-day symposium was co-organized by the People's Government of Jiangshan City, the IAG Red Beds & Danxia Geomorphology Working Group, the Geographical Society of China Red Beds & Danxia Research Working Group, and the Geography and Planning School of Sun Yat-sen University. In addition, it was jointly hosted by the Mt. Jianglangshan World Natural Heritage Administration Bureau. The symposium was attended by a total of 101 participants from 47 universities and institutions of different regions in the world. Those participants were from China, India, Germany, Serbia, and the United States. Dr. Sunil Kumar De, the Secretary-General of the International Association of Geomorphologists (IAG), attended the meeting and delivered the congratulatory address, expressing support to the symposium.



The opening ceremony

The seminar summarized the progress made in the field of international Danxia landform and red beds research in recent years. More than 30 papers were received and selected for the printed proceedings. More than 30 attendees presented at the seminar, covering topics such as the sedimentology of red beds, genetic analysis of Danxia landforms, and international comparison study. The peers from different countries made substantial progress towards the international cooperation and comparative study of red beds, Danxia landforms, and red bed badlands. We also obtained preliminary achievement on the comparative study of Danxia landforms in the Southeast China and the west of America. We paid greater attention to the sedimentology study of red beds. The study concerns the relationships between sedimentary facies, deposition environments, and the development of Danxia landform put forward new ideas to solve the problem of Danxia landform developmental



Meng Xianlai, Chairman of the Conference, Vice-Deputy Executive Director of the Geological Society of China, delivered his opening speech



Sunil Kumar De, Professor, Secretary-General of International Association of Geomorphologists (IAG), delivered speech in the inaugural session

patterns. We have accumulated a number of valuable observations and experimental data for the international collaborative research of red bed badlands and red bed desertification. Meanwhile, we have made significant progress on understanding the genetic mechanism and on the application research. The shape analyses of Danxia landform involve Danxia natural bridge, caves, and the features. The genetics of other micro Danxia landform was also the focus of this seminar and aroused interests of participants.



Peng Hua Professor, Executive Chairman of the Conference, the Chairman of IAG Red bed and Danxia landform, delivered the keynote speech



Dr. Wolfgang Eder, executive Vice President, the former director of UNESCO Earth Science Division, hosting the meeting's discussion of documents



Academic communication venue

In addition, the Danxia landform field survey has made encouraging progress. Sun Yat-sen University led and carried out the National Danxia Landform Basic Data Surveying for two years with data collection and database construction from 150 Danxia sites in China. A joint investigation of Red beds and Danxia landforms, which is carried out by Sun Yat-sen University and Saint Louis University, has also obtained preliminary results. With these promising achievements in red beds and Danxia landform study, the number of talented individuals focused on Danxia landform research has also grown. So far there are five post-doctoral students working in and out of research centres, more than 10 doctoral students and more than 30 post-graduates. The past two years of achievements of Red beds and Danxia landform research and work in Danxia landform scientific popularization education has also been commended by IAG and UNESCO experts.

The meeting hosted a panel discussion on the preparations for the 34th International Geographical Congress in 2016, papers and monographs editing, and achievements display as well as inviting international counterparts join in writing and editing the topics of the research progress of red beds and Danxia landforms. Preliminary decisions on division of work and plan have been made.



Danxia Landform posters



Continuing the discussion



During the conference, participants went on a field excursion in the Mt. Jianglangshan Danxia landform area, the Qingyang ancient village, and the Nianbadu ancient town. After the field visit, a discussion was organized concerning the studies of Danxia landform in Mt. Jianglangshan, world heritage protection and utilization, and tourism development strategy of Jiangshan city. It came up with some constructive comments and suggestions.



Venue discussion

The meeting was supported by the Quzhou Municipal People's Government, Jiangshan Municipal People's Government, and Mt. Jianglangshan World Natural Heritage Administration. On behalf of all participants, we would like to express our heartfelt thanks to the above-mentioned organizations and Jiangshan international hotel for providing great support and devoting enthusiasm to make the conference successful. Thanks also go to all the staff members for their hard work for the meeting.

Jiang Yongbiao, Qi Deli, Yan Luobin, *Third International Symposium on Danxia Landforms*

Pictures of the field trip



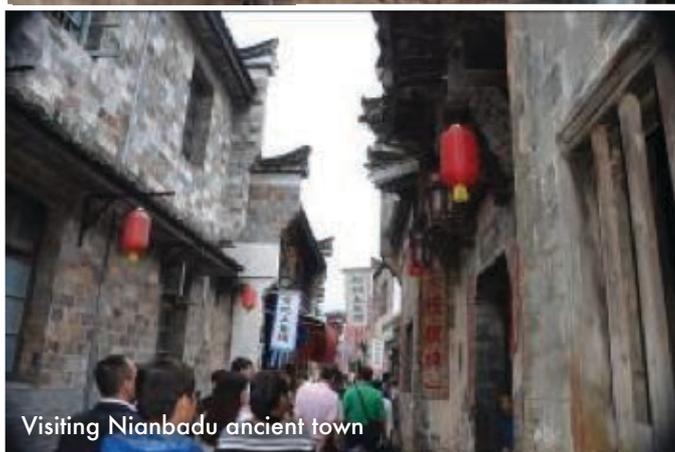
Tablet of Mt. Jiulangshan World Heritage



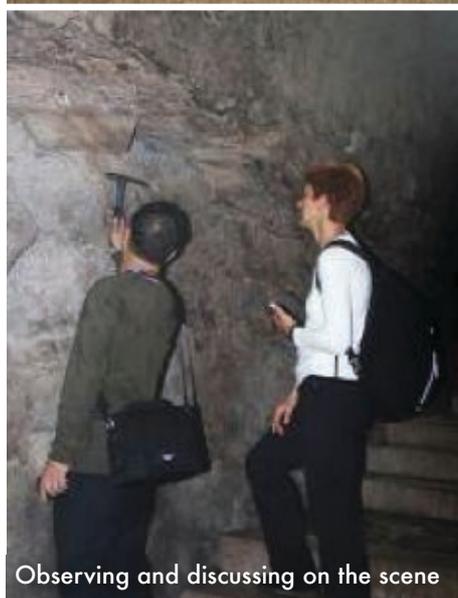
Professor Zhu Cheng introduced Mt. Jiulangshan landscape development



Visiting Qing Yang, an ancient village



Visiting Nianbadu ancient town



Observing and discussing on the scene



Majestic Mt. Jiulangshan



Investigation on the road

Photographs: Zhou Dawei, Huang Qiongfang

Geomorphosites Working Group

Annual report 2015

European Geoscience Union General Assembly, Vienna (Austria), 12-17 April 2015

The working group co-organised the session SSS9.11 "Geoheritage, Geodiversity and Cultural Landscapes: key issues for present and future times", chaired by Paola Coratza, Benjamin van Wyk de Vries, Zbigniew Zwoliński,

Co-Conveners: Marco Giardino, Alicja Najwer, Hanneke van den Ancker, Sjoerd Kluiving, Emmanuel Reynard, Grazina Skridlaite, Erika Vye. The session aimed to highlight the relationship between geodiversity, the physical environment and cultural elements of landscapes and/or geoheritage and was co-organized together with IAG Working Group on "Landform Assessment for Geodiversity". 22 oral communications and 24 posters were presented and about 60 persons attended the session.

The contributions were dealing especially with the following issues: links between geodiversity, geoheritage and cultural landscape; geodiversity, geoheritage and geomorphology; geodiversity and geoheritage conservation-enhancement and education.



A view of the poster session (photo: P. Coratza).

Second International Conference on “Geosites: research and tourism development for regional promotion”, Tozeur (Tunisia), 19-24 October 2015

The Laboratory for Geomorphological Mapping, Space, Environment and Dynamics, organised the first Conference in Tunisia on the topic of geosites, geomorphosite, geoheritage, and their potential use for regional promotion and development. The working group gave the auspices to this important initiative.

IAG Regional Conference “Gradualism vs catastrophism in landscape evolution” Barnaul (Russia), 2-4 July 2015

The working group WG co-organised, in collaboration with the IAG WG on Geoarcheology, the session “Human aspect of Geomorphology”, chaired by Emmanuel Reynard and Kosmas Pavlopoulos. 9 oral communications and 3 posters were presented.

INTERGEO – digital platform on geomorphosites

The working group, in collaboration with the University of Lausanne, is developing an e-learning course on geomorphosites. The course is divided into four parts: (1) Generalities – definitions, links with heritage and landscape studies, active geomorphosites, the IAG working group; (2) Methods – selection and assessment, mapping issues, geomorphosite visualization, technical and digital tools in geomorphosite studies; (3) Conservation and promotion – example of geomorphosite studies related to geoconservation, geoparks, World Heritage Sites, geotourism and interpretation, and natural hazards; (4) Examples – cultural, karstic, coastal, mountainous, fluvial, volcanic and anthropogenic geomorphosites.

Each chapter contains a short description, a list of references, selected publications, as well as other educational material, e.g. videos, virtual fieldtrips etc. In particular, several videos allow presenting in a very dynamic way concepts and examples. Most of the content has been prepared during the period December 2014 to October 2015 and is now ready and tested by the six universities involved in the project during the academic year 2015–2016. The universities partners involved in are: University of Lausanne, Switzerland (Emmanuel Reynard, Lucie Darbellay), University Savoie Mont Blanc, France (Nathalie Cayla and Fabien Hobléa), University Paris IV, France (Christian Giusti), University of Modena e Reggio Emilia (Paola Coratza), University of Bucharest, Romania (Laura Comanescu and Florina Grecu), University of Minho, Portugal (Paulo Pereira). Each university is using INTERGEO as a support for the specific courses on geoconservation and geomorphological heritage. Each team will then carry out fieldwork and will exchange on the results during a virtual international forum to be organized in Summer 2016 (the various teams will

interact by video-conferences). The course will then be fully open-access by September 2016. The content of the course will evolve and will be completed in the future.

Publication

A special issue on “Geomorphosites” of the journal *Geoheritage*, edited by E. Reynard, P. Coratza and F. Hoblea, collected seven papers following the Paris Conference session: the two first texts deal with methodological issues, focusing on the pre-selection of potential geomorphosites; the following papers relate to integrative approaches aiming at inventorying the geomorphological heritage at the regional scale in a context of geotourism development; the three other papers are case studies focusing on specific contexts and approaches that are currently at the core of research on geomorphosites. The volume was published as issue 1/2016 of the journal

(<http://link.springer.com/journal/12371>).

The activities scheduled for 2016 are:

- the session “Geoheritage and Geodiversity Matter: Themes, Links and Interactions” at the European Geoscience Union General Assembly, Vienna, 17-22 April 2016;
- the session “Geomorphology, Geomorphosites and Landscape” at the 33rd International Geographical Congress – IGU, Beijing (China), 21-25 August 2016;
- the International Workshop on Urban Geomorphological Heritage, Rome, 27-29 October 2016 (<http://www.unil.ch/igd/colloques/2016/iwugh-rome>).

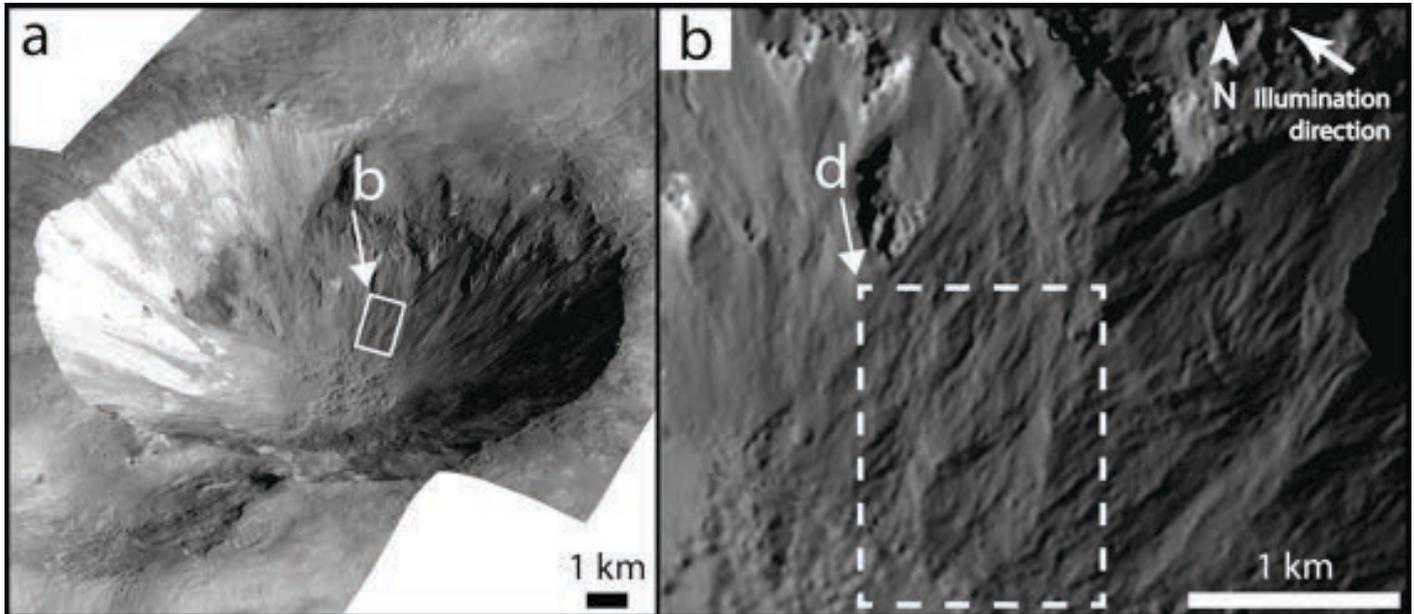
Paola Coratza, *University of Modena e Reggio Emilia, Italy*; Fabien Hobléa, *University Savoie Mont Blanc, France*

Planetary Geomorphology Working Group

Annual report 2015

In mid-2015 the chairmanship of the group was passed over from Dr. Mary Bourke (Trinity College, Ireland) to Dr. Susan Conway (LPG Nantes, France). The "Planetary Geomorphology Image of the Month" site that Mary set up has gone from strength to strength. Each month a member

of two of the sadly departed greats of planetary science, Gerhard Neukum and Colin Pillinger. Gordon Osinski was involved in organising a special Session about Canadian impact structures at the AGU-GAC-MAC-CGU Joint Assembly, Montreal, Canada, in May. In August at the Joint ICA Symposium in Brazil Henrik Hargitai organised a session entitled "Planetary Cartography". Finally Susan Conway and Andreas Johnsson were involved in organising a session at the European Planetary Science Congress (ESPC) in September.



of the planetary science community is invited to write a post, including images of a particular planetary landscape, for example possible pingos on Mars, fault-like structures on comets, or strange landscapes on Pluto. In 2015 we had nearly 16,000 hits with each article getting ~200 hits or more. Our top three posts from 2015 were "Transient flow of water on Vesta suggested by gullies and lobate deposits", "Long-runout landslide transport in Valles Marineris, Mars" and "Groundwater outflow on Mars - insights from large-scale experiments" (see Image). Based around this blog we also have a twitter feed (@PlanetGeomorpho) and facebook page (<https://www.facebook.com/PlanetaryGeomorphology>).

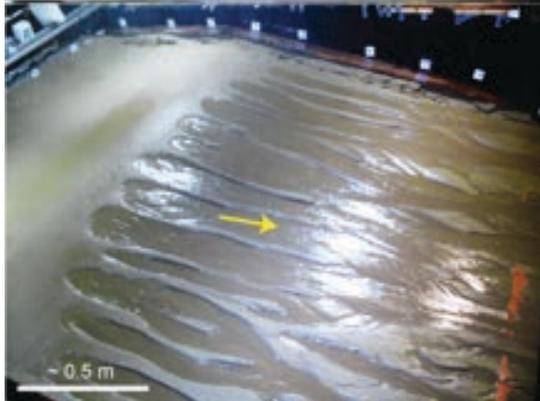
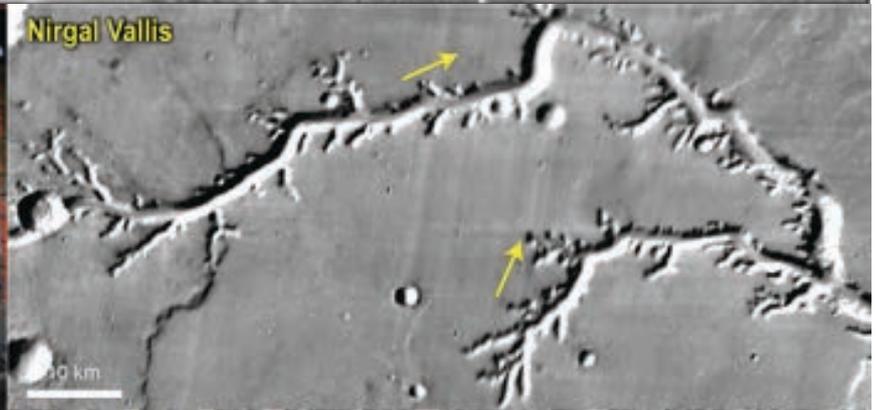
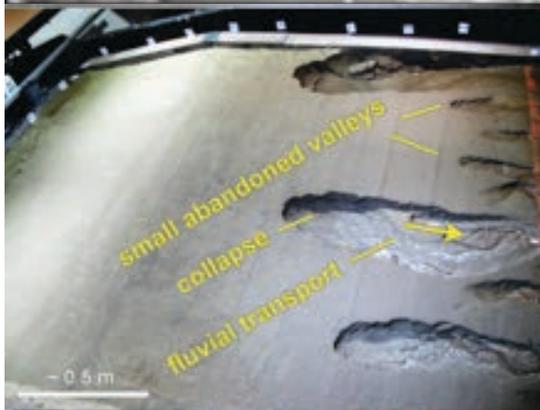
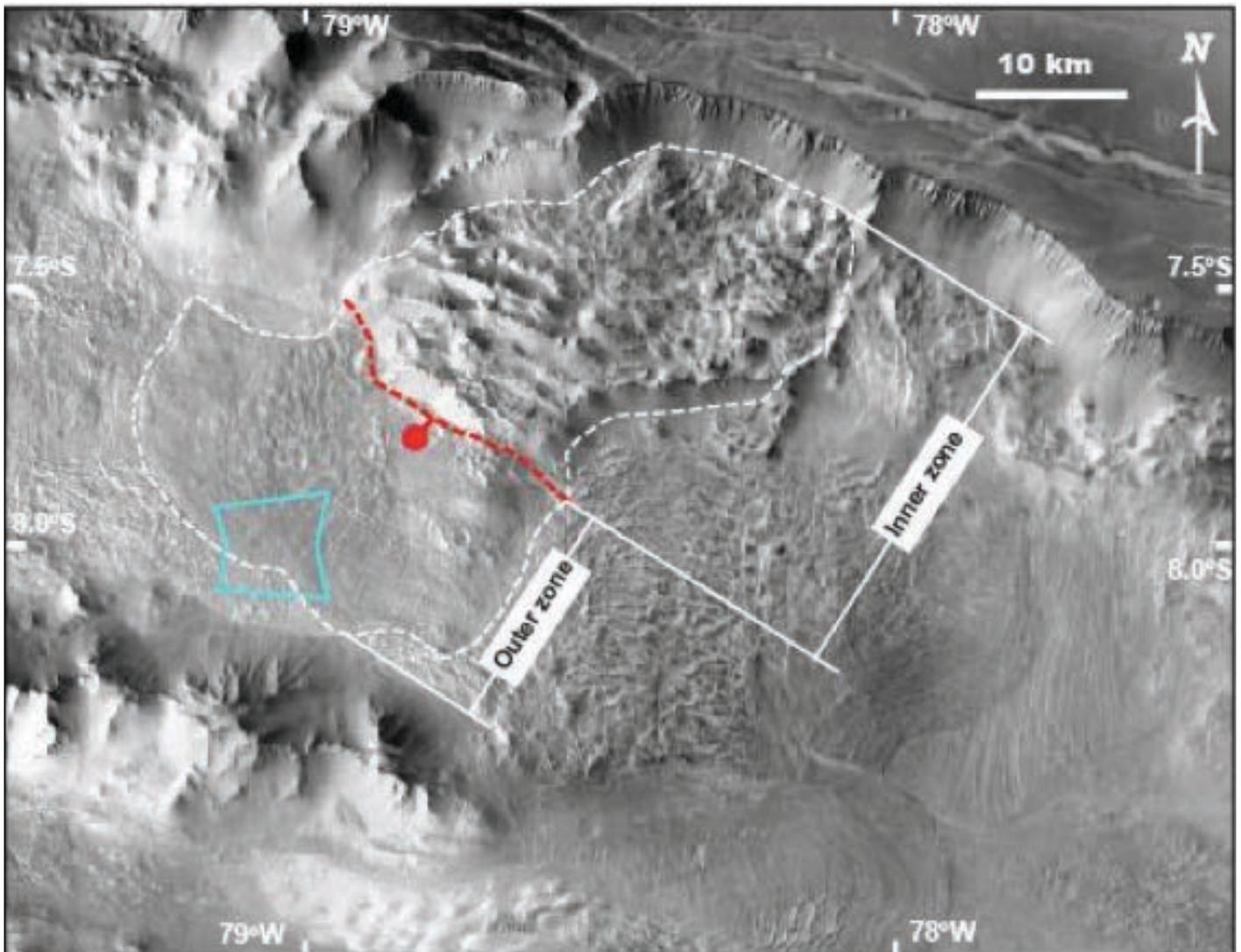
WG member Henrik Hargitai co-edited the "Encyclopedia of Planetary Landforms" published in 2015 by Springer, a tremendous effort including collating over 600 entries from many contributing authors (who had differing levels of agreement and commitment!). Most of the members of the WG were involved in one or more entries.

Members of the working group are actively involved in organising sessions, conferences and workshops throughout the world. In February, Antoine Séjourné was involved in organising the Cryosphere Workshop in Nantes, France and Matt Balme was part of an International Space Science Institute workshop called "Dust Devils on Earth and Mars" held in Bern Switzerland. In April the Planetary Geomorphology session at European Geoscience Union's annual conference in Vienna, (convened by members Susan Conway, Andreas Johnsson and Matt Balme), which has been running since 2007, continued its successful run. In addition Daniela Tirsch chaired a session at EGU in honour

Upcoming events include the following:

- Session PS-5 "The solar system bodies including planetary system" at the National Space Science Symposium of the Indian Space Research Organization 9-12 February 2016. Senthil Kumar.
- Co-organization of the ROBEX Sensor Workshop. 7-8 April 2016, Bremen, Germany. Daniela Tirsch.
- Planetary Geomorphology at EGU, 17-22 April 2016. Susan Conway, Matt Balme, Andreas Johnsson.
- Special Session "Extreme Events and Sedimentation" at the International Association of Sedimentologists meeting in Marrakesh, Morocco, 23-25 May 2016. Goro Komatsu.
- A session on "Canadian contributions to the planetary sciences: Missions, materials, and analogues" Margins Through Time - GAC-MAC, 1-3 June 2016, Yukon. Gordon Osinski.
- Planetary Permafrost and Earth Analogues at XI International Conference on Permafrost (ICOP) 20-24 June 2016, Potsdam, Germany. Antoine Séjourné, Andreas Johnsson.
- 2nd International Workshop on Martian Gullies at The Geological Society, London. 20-21 June 2016. Susan Conway.
- 6th International Conference on Mars Polar Science and Exploration, Iceland. 5-9 September 2016. Isaac Smith (fieldwork coordinator Susan Conway)

Susan Conway, *Laboratory of Planetology and Geodynamics, Nantes, France*



Top three "Planetary geomorphology image of the month" posts from 2015. Previous page, gullies on Vesta (<http://wp.me/p3Hlca-bQ>). Top, landslides on Mars (<http://wp.me/p3Hlca-c0>). Bottom, experiments and landscapes on Mars resulting from groundwater flow (<http://wp.me/p3Hlca-cY>).

Submarine Geomorphology Working Group

Annual report 2015

Activities so far:

We have created a web page, Facebook page (99 members), LinkedIn page (192 members) and Google Group to share news and announcements on research projects and cruises, upcoming conferences and training schools, and job opportunities.

Forthcoming activities:

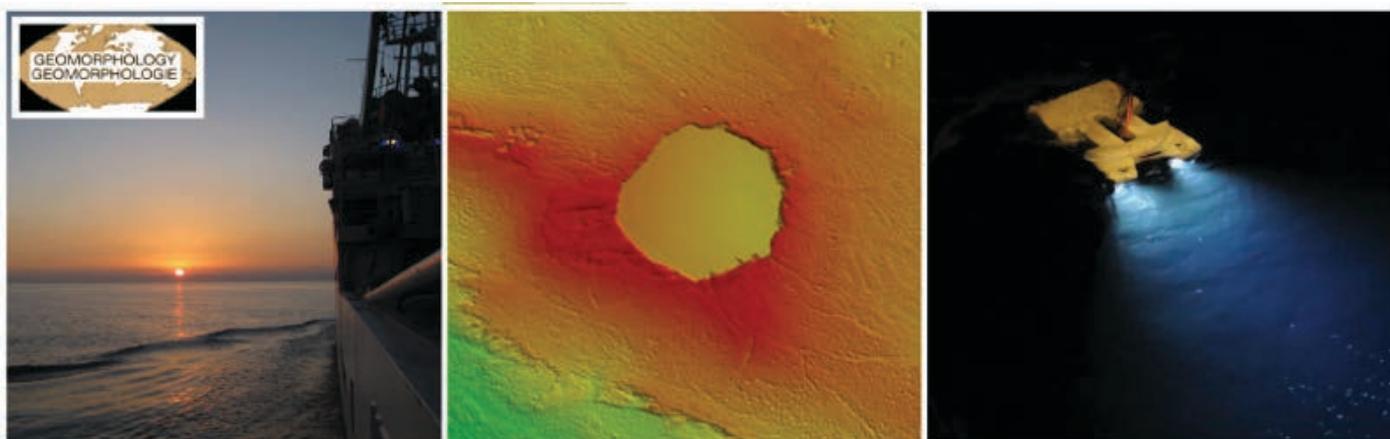
- Session on "Seafloor- and Sub-seafloor Expression of Geomorphic and Tectonic Processes" at EGU Annual meeting in Vienna, 17-22 April 2016;
- Session on "Comparing and bridging subaerial and subaqueous mass movement processes and concepts" at the 12th International Symposium on Landslides

2016 in Naples, Italy (June 2016) - <http://www.isl2016.it/>

- Session on "Subaerial and submarine landslide processes and hazards" at the 35th International Geological Congress 2016 in Cape Town, South Africa (August 2016); <http://www.35igc.org/Themes/9/Geohazards>
- Workshop on "Seafloor exploration and surveying techniques for the Earth Sciences: The State-of-the-Art" at the 35th International Geological Congress 2016 in Cape Town, South Africa (August 2016)
- Edited volume on "Submarine Geomorphology" that includes 25 chapters on the current state of knowledge in the field.

Aaron Micallef, *University of Malta, Malta*

Sebastian Krastel, *Christian-Albrechts-Universität zu Kiel, Germany*



Multibeam echosounder survey at sunset, Sicily Channel; Figure 2: Multibeam echosounder bathymetric map of a collapsed cave offshore north Malta; Figure 3: Remotely Operated Vehicle deployed at night in the Sicily Channel (Figure and Photos: Aaron Micallef).

Geoarchaeology Working Group

Annual report 2015

Sjoerd Kluiwing, Vanessa Heyvaert, Andy Howard, Maurits Ertsen, Tony Brown and Wiebke Bebermeier co-organised the session GM 4.2 "Geoarchaeology: Human-environment interactions in the Pleistocene and Holocene" with colleagues at the European Geosciences Union (EGU) General Assembly 2015, held at Vienna, Austria, on April 12-17, 2015.

Sumiko Kubo, Masatomo Umitsu, Vanessa Heyvaert and Yasuhisa Kondo co-convened the session "Geoarchaeology: Human-environment interactions and palaeo-geohazards" at XIX INQUA Congress, held at Nagoya, Japan, on July 27-August 2, 2015.

The WGG supports geoarchaeological symposia at four international conferences in 2016. In EGU 2016, held at Vienna, on April 17-22, 2016, Sjoerd Kluiwing co-organised the session titled "Geoarchaeology: Human adaptation to landscape changes, landscape resilience to human impact and integrating palaeoenvironmental and archaeological record" with Wiebke Bebermeier, Maurits

Ertsen, Andy Howard, Tony Brown, Vanessa Heyvaert, Lisa-Marie Shillito, Julie Durcan, and Robyn Inglis. The second symposium is titled "Geoarchaeology, Man, and Territory" to be held as part of the XIX Congreso Nacional de Arqueología Argentina in San Miguel de Tucumán, Argentina, August 8-12, 2016. The conveners of the symposium are María Marta Sampietro Vattuone, Jimena Roldán, and José Luis Peña Monné. The symposium will be preceded by the first international course on field geoarchaeology from Calchaquíes Valleys, Northwest Argentina, August 4-6, 2016. The third symposium will be part of the 33rd International Geographical Congress titled "Shaping Our Harmonious Worlds" to be held at China National Convention Center (CNCC), Beijing, China, August 21-25, 2016. The WGG will co-organise a geoarchaeology session there. The fourth symposium, titled "New contributions to geoarchaeology" will be held on the occasion of the Eight World Archaeological Congress, held at Kyoto on August 28-September 2, 2016. Tara Beuzen-Waller, Yasuhisa Kondo, and Friederike Stock will chair the session. The deadline for abstract submission was extended to May 31, 2016.

Four of the papers read in the geoarchaeology session in the 8th ICG in Paris were published in *Archaeological and Anthropological Sciences* (<http://link.springer.com/journal/12520>) in 2014 and 2015. The working group publishes a newsletter once a year to diffuse information in the field of geoarchaeology, such as conferences, field trips, publications, and calls for scientific projects to be announced.

They are available in an electronic format on <https://sites.google.com/site/iaggeoarch/newsletter>. Further information is available at the WGG's website (<http://iag-geoarch.org/>)

Kosmas Pavlopoulos, *Paris-Sorbonne University Abu Dhabi, United Arab Emirates*

Upcoming Events

Note:

This calendar proposes a list of events organized by IAG, IAG working groups, and large international conferences concerning geomorphology. It is based on information transmitted by IAG members. For more information see also the IAG website: www.geomorph.org

Germany

11th International Conference on Permafrost (ICOP 2016), Potsdam, Germany, 20–24 June 2016.
Website: www.icop2016.org

France

Conference "Source to sink – From erosion to sedimentary archives", Chambéry, France, 26 June – 1 July 2016.
Website: <http://edytem.univ-savoie.fr/manifestations-scientifiques/jgm-2016-ijg-2016-afd-2016/>

United Kingdom

Conference "Hydroecology and the fine sediment conundrum: quantifying, mitigating and managing the issues", Loughborough University, UK, 12–15 July 2016.
Website: <https://www.ice.org.uk/events/hydroecology-and-the-fine-sediment-conundrum>

United States

8th International Conference on Fluvial Hydraulics (River Flow 2016), Saint-Louis, USA, 12–15 July 2016.
Website: www.ihr.uiowa.edu/riverflow2016

China

33rd International Geographical Congress, Beijing, China, 21–25 August 2016.
Website: <http://www.igc2016.org>

South Africa

35th International Geological Congress, Cape Town, South Africa, 27 August – 4 September 2016.
Website: <http://www.35igc.org/>

United Kingdom

British Society for Geomorphology (BSG) Annual Meeting, University of Plymouth, UK, 5–7 September 2016. Deadline for abstract submission: 6 June 2016. Website: <http://www.geomorphology.org.uk/meetings/bsg-annual-meeting-2016>

Bulgaria

10th IAG/AIG SEDIBUD (Sediment Budgets in Cold Environments) Workshop "Monitoring of Geomorphological Processes in Cold Environments under Climate Change", Bansko, Bulgaria, 7–10 September 2016. Deadline for abstract submission: 31 May 2016. Website: http://www.geomorph.org/wp-content/uploads/2015/06/SEDIBUD1st-Circular_Bansko_7-10-09-2016.pdf

Slovenia

International Conference of the Carpatho-Balkan-Dinaric Geomorphological Commission (CBDGC), Postojna, Slovenia, 13–17 September 2016. Deadline for abstract submission: 13 June 2016. Website: <http://www.geomorfolosko-drustvo.si>

United States

2016 Binghamton Geomorphology Symposium on Connectivity, Colorado State University, USA, 16–18 September 2016.
Website: <https://sites.warnercnr.colostate.edu/ellenwohl/2016-binghamton-geomorphology-symposium/>

Germany

13th International Symposium on River Sedimentation (ISRS 2016), Stuttgart, Germany, 19–22 September 2016. Website: <http://www.isrs2016.de/>

Japan

13th East Eurasia International Workshop on Present Earth Surface Processes and Long-term Environmental Changes in East Eurasia, Okinawa, Japan, 14–17 October 2016.
Deadline for abstract submission: 15 August 2016. Information: kashima@geo.kyushu-u.ac.jp

Italy

International Workshop on Urban Geomorphological Heritage, Rome, 27–29 October 2016. Deadline for abstract submission: 31 May 2016. Website: <http://www.unil.ch/igd/colloques/2016/iwugh-rome>

New Zealand

17th ANZGG Conference "Integrated Geomorphology", Wairarapa, New Zealand, 5–10 February 2017. Website: <http://www.anzgg.org/conferences>

India

9th International Conference on Geomorphology, New Delhi, India, 6–11 November 2017. Website: <http://www.icg2017.com>



Badlands along the Kuh-e-Faghan fault system ridge, Central Iran. (picture: Marta Della Seta).

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