6th International Symposium on
Gully Erosion in a Changing World (6th ISGE)

- Book of Abstracts -

06-12 May 2013
Iași, Romania
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Scientific Programme

Day 1. Monday, 06 May 2013

13:00-19:00 Arrival of participants
16:00-18:00 - Afternoon Registration
18:30-20:30 - Evening Reception at Titu Maiorescu Cafeteria.

Day 2. Tuesday, 07 May 2013
Aula Magna of the "Alexandru Ioan Cuza" University of Iaşi

08:00-09:00 - Morning Registration
09:00-09:30 - The Opening Ceremony.

09:30-11:00 - Session I – Four oral presentations
Chairpersons: Fullen M.A. and Balteanu D.

09:30-10:00 Keynote speaker, Poesen J. – “Piping erosion as a precursor of gullying in pastures of a temperate humid climate: effect of soil characteristics, biological activity and land use” (by Poesen J., Verachtert E., Van Den Eeckhaut M., Martínez-Murillo J.F, Nadal-Romero E., Devoldere S., Wijnants, N., Deckers J. - Belgium).


10:20-10:40 “Morphological features of gully heads under different active degrees in the dry-hot Valley Region, Southwestern China” (by Donghong Xiong, Jiajia Li, Dan Yang, Yifan Dong, Zhangan Su, Liangtao Shi - P.R. China).

11:00-11:20 - Coffee Break.

11:20-13:00 - Session II - Five oral presentations

Chairpersons: Poesen J. and Torri D.


11:50-12:10 “Badland formation along the Pravara River, Western Deccan, India” (by Joshi V.).

12:10-12:30 “Gully erosion and its relating rainfall events in the middle parts of Inner Mongolia, China” (by Otsuki Y., Sudesiqin – Japan + China).

12:30-12:50 “Causes and consequences of gully erosion in the western part of the Lublin Uplands, E. Poland” (by Gawrysiak L., Zglobicki W. - Poland).


13:10-14:40 - Lunch at Titu Maiorescu Cafeteria.

14:40-16:50 - Session III – Six oral presentations

Chairpersons: Joshi V. and Bennett S.

14:40-15:10 Keynote speaker, Balteanu D. – “Gully erosion – driven uncertainties within a multi-hazard analysis: a case study in the Romanian Curvature Carpathians” (by Balteanu D., Micu M., Chendes V., Micu D., Zumpano V. – Romania + Italy).

15:10-15:30 “DEM assessment for gully systems analysis in the Lake Manyara area, northern Tanzania” (by Mori S., Maerker M., Queneherv G. – Netherlands + Italy + Germany).


16:10-16:30 “Gully erosion in the long view: integrating perspectives from paleohydrology, paleopedology, and environmental change science” (by Daniels M. – USA).
16:30-16:50 “Gullies in the last-glacial landscape – distribution, morphology and palaeogeography: a case study from NE Poland” (by Smolska E., Morawska M. - Poland).

16:50-17:20 - Coffee Break.

17:20-19:10 - Session IV – Four oral presentations

Chairpersons: Marzolff I. and Donghong Xion


18:10-18:30 “A detailed insight into gully erosion rates during the last Millennium. A case study from the Nitra Hill Land, Slovakia” (by Papčo P., Dotterweich M., Stankoviansky M., Bork H.R. – Slovakia + Germany).

18:30-18:50 “Factors controlling gully development on the slopes of plateau-like hills in the northern part of the Latgale Upland, Latvia” (by Soms J., Treijs A. - Latvia).


19:30-21:00 - Dinner at Titu Maiorescu Cafeteria.

Day 3. Wednesday, 08 May 2013

08:00-20:00 – Scientific field trip on the Barlad Plateau.

Day 4. Thursday, 09 May 2013
Aula Magna of "Alexandru Ioan Cuza" University of Iaşi

08:30-10:40 - Session V - Six oral presentations

Chairpersons: Casali J. and Shellberg J.

08:30-09:00 Keynote speaker, Bennett S.J. - “Systematics of rill erosion on experimental landscapes: Emergence, persistence, and morphodynamics” (by Bennett S.J., Gordon, L.M., Wells, R.R. - USA).

09:00-09:20 “Stereoscopic satellite images for mapping rills and gullies and evaluating their contribution to soil loss” (by Fiorucci F., Ardizzone F., Rossi M., Torri D. - Italy).


10:00-10:20 “Determining the relationship between gully characteristics and environmental factors in at sub-catchment level” (by Dondofema F., Nethengwe S. - South Africa).

10:20-10:40 “Human induced soil erosion and gully system development in the Late Holocene and future perspectives on landscape evolution – The Myjava Hill Land, Slovakia” (by Dotterweich M., Stankoviansky M., Minár J., Koco Š., Papčo P. - Germany + Slovakia).

10:40-11:00 - Coffee Break.

11:00-12:00 - Session VI – Poster presentations

Chairpersons: Vanmaercke M. and Otsuki Y.

1. “Temporal variation of erosion processes at the runoff plot and at the catchment scale: the role of gully erosion” (by Vanmaercke M., Maetens W., Poesen J., Ionita I. – Belgium + Romania).

2. “Quantifying gully development patterns since 1963 from small-scale aerial photographs and high-resolution satellite images” (by Frankl A., Poesen J., Scholiers N., Jacob M., Mitiku Haile, Deckers J., Nyssen N. – Belgium + Ethiopia).

3. “Prehistorical catastrophic mudflows occurred in the Guanting Basin along the Upper Yellow River, China” (by Huang Chunchang, Zhang Fuping - P.R. China).


5. “Lavakas, the unusual gullies of Madagascar: A review on their formation and distribution” (by Raveloson A., Székely B., Visnovitz F., Udvardi B., Szabó Cs. – Hungary).

6. “Gully formation and geomorphic processes in the Kenyan Central Highlands” (by Sasaki Akihiko, Otsuki Yoshinori - Japan).


8. “Gullies as a touristic attraction in loess areas of eastern Poland” (by Kolodynska-Gawrysiak R., Gawrysiak L., Zglobicki W. - Poland).
9. “Dynamics of outflow and sediment yield from permanent gully system (Lublin Upland, E. Poland)” (by Rodzik J. – Poland).


11. “Record of Sub-Atlantic erosion and denudation processes within dry valley landforms and the associated alluvial fans in the trough occupied by Lake Jasień (North Poland)” (by Majewski M. – Poland).

12. “Land degradation within the Zeletin catchment, Eastern Romania” (by Padurariu B., Ionita I., Niacsu L. - Romania).

13. “Modelling the occurrence of gullies in the Olteț Catchment, Romania” (by Jurchescu M-C., Grecu F. - Romania).


16. “Gully erosion in cryoarid steppes of the Central Asian type” (by Tyumentceva E - Russia).


12:00-13:00 - Special Ceremony of UAIC Iasi Senate.

13:00-14:30 - Lunch at Titu Maiorescu Cafeteria.

14:30-16:40 - Session VII – Five oral presentations

Chairpersons: Michael D. and Zglobicki W.

14:30-15:00 Keynote speaker, Torri D. – “Reviewing and modelling topographic thresholds for gully heads” (by Torri D., Poesen J., Terranova O., Iaquinta P., Rossi M. – Italy + Belgium).
15:00-15:20 “Bias in topographic thresholds for gully heads” (by Rossi M., Torri D., Santi E. - Italy).


15:40-16:00 “Gully erosion prediction using maximum entropy modeling and detailed Terrain Analysis: A case study in the Mazayjan Plain, Southern Iran” (by R. Zakerinejad, Märker, M., Hochschild, V. – Iran + Germany).

16:00-16:20 “The control effects of vegetation on gully beds based on the in-situ runoff scouring experiment” (by Yifan Dong, Donghong Xiong, Zheng’an Su, Dan Yang, Jiajia Li - P.R. China).


16:40-18:10 - Session VIII – Four oral presentations

Chairpersons: Rossi M. and Bielders Ch.


17:10-17:30 “Measuring gully channel widening using open source and commercial GIS” (by Momm, G.H., Wells, R.R., Bingner L.R. - USA)

17:30-17:50 “Data sources for extraction of gully extension in Romania” (by Niculita M.)


19:30-22:00 – Gala Dinner at ‘La Castel Restaurant’.

Day 5. Friday, 10 May 2013
08:30-19:00 - Scientific field excursion on the Jijia Rolling Plain.

Day 6. Saturday, 11 May 2013
08:00-22:00 Post-Conference field excursion in the Moldavian Subcarpathians and the Eastern Carpathians of Romania.

Day 7. Sunday, 12 May 2013 – Departure of participants.