

			
<p>International Association of Geomorphologists</p>	<p>Romanian Association of Geomorphology</p>	<p>European Society for Soil Conservation</p>	<p>“Al. I. Cuza” University of Iasi, Department of Geography, Romania</p>

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

- Book of Abstracts -



06-12 May 2013

Iasi, Romania



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Gully Erosion in a Changing World (6th ISGE)
Iași, Romania, 06-12 May 2013**

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 Iași

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).

10:00-10:20 *“An introspective look at past, present and future gully erosion research: An NSL Perspective”* (by **Wells R.R., Alonso V.C., Bennett J.S., Bingner L.R., Casali J., Dabney M.S., Gordon M.L., Langendoen J.E., Momm G.H., Römken J.M.M., Glenn Wilson V.G.** – USA + Spain).

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).

10:40-11:00 *“Land degradation by gully erosion and mass movements in Angra dos Reis and Paraty Municipalities, Southern Rio de Janeiro State, Brazil”* (by **Guerra A.J.T., Jorge Maria do C.O, Fullen M.A., Bezerra J.F.R.** - Brazil + United Kingdom).

11:00-11:20 - Coffee Break.

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

Chairpersons: Poesen J. and Torri D.

11:20-11:50 Keynote speaker, Marzloff I. – “*Controlling or boosting gully erosion? The impact of land levelling in the Souss Basin, Morocco, analysed by UAV-based remote sensing and rainfall simulations*” (by **Marzloff I., Ries J.B., D’Oleire-Oltmanns S., Peter K.D., Aït Hssaïne A.** - Germany + Morocco).

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).

12:50-13:10 “*Alluvial gully erosion rates and processes across the Mitchell River fluvial megafan in northern Queensland, Australia*” (by **Shellberg J.G., Spencer J., Brooks A.P., Pietsch T.J.** - Australia).

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., Queneherve G.** – Netherlands + Italy + Germany).

15:30-15:50 “*Urban gully erosion in São Luís City, Maranhão State, Brazil*” (by **Guerra A.J.T., Bezerra J.F.R., Fullen M.A., Jorge Maria do C.O.** - Brazil + United Kingdom).

15:50-16:10 “*Factors in the development of urban mega-gullies in the high town of Kinshasa*” (by **Makanzu F., Moeyersons J., Ntombi M.** – D.R. Congo + Belgium).

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: Marzloff I. and Donghong Xion

17:20-18:10 Keynote speaker, Ionita I. – “*Gully development within the Falcui Hills of eastern Romania*” (by **Ionita I., Niacsu L., Petrovici G.** - Romania).

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).

18:50-19:10 “*Gully erosion in the area of Kisbadod village, Somogy Hills, Hungary*” (by **Fábián Sz. Á, Kovács I.P., Placzkowska E., Radvánszky B., Sobucki M.** – Hungary + Poland).

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 Iași

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).

09:20-09:40 “*Operator-dependence of ephemeral gully characterization when using aerial photographs*” (by **Maugnard A., Cordonnier H., Degre A., Demarcin P., Pineux N., Bielders C.L.** - Belgium).

09:40-10:00 “*Study on hydrodynamic properties of overland flow at gully heads in the Dry-hot Valley region, southwest China*” (by **Su Z.A., Xiong D.H., Dong Y.F., Li J.J., Yang D., Zhang J.H., Liu G.C., Shi L.T.** - P.R. China).

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).
4. “*Recent landscape evolution and gully erosion in the Szekszárd Hills, Hungary*” (by **Varga G.** - Hungary).
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).
7. “*Development of the gullied areas after implementing land improvements in the Republic of Moldova*” (by **Jigau Gh., Voloschuk M.** - Moldova + Ukraine).
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).
10. “Application of the terrestrial laser scanning (TLS) for assessing development of a forested loess gully” (by **Janicki G., Kociuba W., 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 Olteţ Catchment, Romania” (by **Jurchescu M-C., Grecu F.** - Romania).
14. “A simple solution for gully erosion control by remediation of destroyed check dams” (by **Mircea S.** – Romania).
15. “The influence of different processes on gully development. Case-study: the shore zone of Bratsk Reservoir (Eastern Siberia, Russia)” (by **Mazaeva O.** – Russia).
16. “Gully erosion in cryoarid steppes of the Central Asian type” (by **Tyumentceva E** - Russia).
17. “A simple approach for assessing soils prone to gully erosion” (by **Ollobarren P., Gimenez R., Casali J., Campo-Bescós M.A.** and **Goñi M.** – Spain).
18. “Rill network evolution, landscape degradation, and its fractal signature” (by **Yasrebi B., Bennett S.J., Soufi M.** – Iran + USA).
19. “Gully widening: effects of slope and discharge” (by **Wells R.R., Momm G.H., Rigby R.J., Bennett S.J., Bingner L.R.** and **Dabney S.M.** – USA).

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., Iaquina P., Rossi M.** – Italy + Belgium).

15:00-15:20 “*Bias in topographic thresholds for gully heads*” (by **Rossi M., Torri D., Santi E.** - Italy).

15:20-15:40 “*AnnAGNPS model evaluation in predicting ephemeral gullies erosion in Southern Navarre, Spain*” (by **Chahor Y., Casali J., Giménez R.** - Spain).

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).

16:20-16:40 - Coffee Break.

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

Chairpersons: Rossi M. and Biellers Ch.

16:40-17:10 Keynote speaker, Casali J. – “Objective assessment of gully width and depth” (by **Campo-Bescós M.A., Casali J.** - Spain).

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.**)

17:50-18:10 “*Gully erosion in the Lower Tutova Rolling Hills, Romania*” (by **Niacsu L., Ionita I., Blebea-Apostu A.** – Romania).

18:10-18:30 - Session IX – Closing Remarks (Poesen J., Ionita I., Zglobicki W.).

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.