



Workshop

Surface hydrology, conservation techniques and university extension programmes

Coimbra, 17th November, 2021 (Workshop also via Zoom)

Contacts: Prof. João Pedroso de Lima, UC, plima@dec.uc.pt

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Rational:

Taking advantage of the visit of Prof. Abelardo Montenegro and Prof. Ana Marinho, from UFRPE, the workshop will focus on the understanding of hydrological processes and mitigating desertification processes, contemplating technological innovations related to indirect methods of hydrological monitoring, water and soil management and soil and water conservation methods. Also, university extension programmes will be discussed; they are a channel to disseminate knowledge and learning for self-improvement.

Venue:

Department of Civil Engineering building (Campus II of the University of Coimbra), on the 3rd floor (**Auditório Laginha Serafim**)

Lunch will be served on the premises of the Department - University Restaurant/Canteen, next to the venue.

Programme of the workshop:

9h45 Opening – Prof. João Pedroso de Lima

10h00 Presentations of students (7 min presentations / 7 min discussion):

Soheil Zehsaz (Iran) – Use of quinine fluorescent tracer in surface hydrology

Bruno Matos (Portugal) – Use of floating tracers for velocity mapping of river flows.

Babar Mujtaba (Pakistan) - Rock fragments and surface-subsurface hydrological processes at plot and hillslope scales

Thayná Almeida (Brazil) - Utilização de técnicas de visão computacional para avaliação de estado hídrico vegetal

11h00-11h30 Coffee break (cafeteria DEC Pólo 2 UC)

11h30 Presentations of Postdocs, researchers and research fellows, from different institutions/research centres/projects (7 min presentations / 7 min discussion):

Ricardo Martins (CESAM - ASHMOB) – Wildfire ash mobilization by run-on under controlled laboratory conditions

João Abrantes (ITCons/MARE - HIRT) - Use of thermal tracers in surface hydrology

Romeu Gerardo (MARE - MEDWATERICE) - Application of Remote Sensing based tools for improving agricultural management in paddy fields

Ana Machado (CESAM - LIFE REFOREST) - Evaluation of a mycotechnosols strategy for erosion mitigation in a burnt pine forest

Leandro Godoy (CESAM – ASHES/ASHMOB) - Ash mobilization by runoff and leaching - a short lysimeters experiment

Valéria Ramos (UFRPE - CNPq) - Análise da variabilidade espaço temporal de índices biofísicos através da geoestatística e com uso de VANT

13h00-14h30 Lunch break (Canteen Pólo 2 UC)

14h30 Master Class - Prof. Ana Marinho (in Portuguese) – Extensão no ensino superior com ênfase nos recursos hídricos e ambiente (45 min presentation / 15 min discussion)

15h30 Master Class - Prof. Abelardo Montenegro (in English) - Advanced analysis of hydrological processes and performance of conservation techniques (45 min presentation / 15 min discussion)

16h30-17h00 Coffee break (cafeteria DEC Pólo 2 UC)

17h00 Visit to the Laboratory of Hydraulics, Water Resources and Environment (30 min)

Output

In this workshop, adding to the master classes of Brazilian professors, students and Postdocs can present and discuss their work with senior researchers. We look forward to your participation in the workshop and to have a fruitful event.

This workshop will also strengthen the relationship between UFRPE (Universidade Federal Rural de Pernambuco), UC (Universidade de Coimbra) and UA (Universidade de Aveiro).

Funding

Funding will be provided through project ASHMOB (CENTRO-01-0145-FEDER-029351) from the Portuguese Foundation for Science and Technology (FCT).

Zoom

Zoom link:

Workshop Surface Hydrology

Quando qua. 17 Nov. 2021 9am – 7pm (WET)

Onde <https://videoconf-colibri.zoom.us/j/83541307599?pwd=NGhIVVpoUDVxdnU1Yy9GTDJMcXhEQT09>

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