

University of Basilicata



Summer School of Basilicata “Monitoring and Modeling Surface Hydrological Processes”



Marsico Nuovo (PZ) - June 27 - July 1, 2011
Location Ente Parco Nazionale Appennino
Lucano

Lectures

John Albertson – Duke University
Tommaso Moramarco – Irpi Perugia
Felix Frances – Politecnica Valencia
Kelly Caylor – Princeton University
Riccardo Rigon – University of Trento



Program

Monday 27 June

9:00 - 10:30 Registration
10:30 - 11:00 School Presentation
11:00 - 11:30 Coffee Break
11:30- 12:30 Opening Lecture J. Albertson
“Vegetation dynamics and implications for land
surface hydrology in semi-arid region”.
12:30- 13:30 T. Moramarco "Predicting discharge
hydrographs from stage observations: a reappraisal
of methods based on field data".
13:30 - 15:30 Lunch
15:30 - 17:30 Self presentation of the Students

Tuesday 28 June

9:00 - 10:00 Lecture
10:00 - 11:00 J. Albertson “Coupling of land surface
hydrology and the atmospheric boundary layer with
a focus on convective rainfall triggering (and
drought)”.
11:00 - 11:30 Coffee Break
11:30 - 13:30 R. Rigon “Using the GEOtop model to
investigate small scale features of the hydrological
cycle”.
13:30 - 15:30 Lunch
15:30 – 17:30 F. Frances “Water and sediment
distributed modelling using TETIS: conceptualization
and application”.

Wednesday 29 June

9:00 – 11:00 R. Rigon “Using the GEOtop model to
investigate small scale features of the hydrological

cycle: case studies on snow modeling and landslide
initiation”.

11:00- 11:30 Coffee Break

11:30- 13:30 F. Frances “Spatial variability,
distributed modelling and scaling effects”.

13:30 - 15:30 Lunch

15:30 - 17:30 K. Caylor “Methods for partitioning
transpiration and evaporation in land surface
fluxes”.

Thursday 30 June

9:00 - 11:00 T. Moramarco “Streamflow
measurements during high floods: new perspectives
by emerging technologies”.

11:00 - 11:30 Coffee Break

11:30 - 12:30 J. Albertson “The effects of Climate
and Land use interactions on hydrologic response
and erosion”.

12:30 - 13:30 J. Albertson “Coupled remote sensing
and Large Eddy Simulation to study land surface
fluxes over heterogeneous terrain”.

13:30 - 15:30 Lunch

15:30 – 17:30 K. Caylor “Spatial pattern of
Vegetation”.

Friday 1 July

9:00- 18:00 Excursion

Scientific Committee

P. Claps - Politecnico di Torino
R. Deidda – University of Cagliari
M. Fiorentino – Università degli Studi della Basilicata
M. Greco - Università degli Studi della Basilicata
V. Iacobellis - Politecnico di Bari
F. Laio - Politecnico di Torino
S. Manfreda - Università degli Studi della Basilicata
V. Noto - Università degli Studi di Palermo
A. Sole - Università degli Studi della Basilicata
V. Telesca - Università degli Studi della Basilicata

Technical Committee

V. Fogliano – NATIONAL PARK
B. Onorati - UNIBAS
M. Di Leo - UNIBAS

Information

Margherita Di Leo (dileomargherita@gmail.com)

Secretary

R. Paduanelli (rita.paduanelli@unibas.it)
L. Germino (lucia.germino@unibas.it)

Information

The number of participants will be limited to a number of 30 students. Applications should be submitted by April 30, 2011 to salvatore.manfreda@unibas.it

The application should include: contact information and a short CV containing your educational background.

Sponsor