

IUSS WORKING GROUP ON DIGITAL SOIL MAPPING (WG-DSM)

4th International Workshop on Digital Soil Mapping Rome, 24-26 May 2010

CNR Conference Room, Piazzale Aldo Moro, 7 - 00185 Roma

“From Digital Soil Mapping to Digital Soil Assessment: identifying key gaps from fields to continents”



The workshop will be held under the auspices of:

The INTERNATIONAL UNION OF SOIL SCIENCES
The **Working Group on Digital Soil Mapping (WG-DSM)**

Local Organisation:



JRC – Institute for Environment and
Sustainability, Land Management and Natural
Hazard Unit (Ispra)



Agricultural Research Council
Research Centre for Soil/Plant System (CRA-
RPS, Rome)
Research Centre for Agrobiography and Pedology
(CRA-ABP, Florence)



CNR – Institute for Mediterranean Agricultural and Forestry Systems (Ercolano – NA)

Sponsored by



Italian Pedologists Association (AIP)



Italian Soil Science Society (SISS)



Italian Society of Pedology

Organizing committee :	Scientific committee:	
Giuseppe Scarascia-Mugnozza , CRA-DAF, Roma	Janis BOETTINGER – Utah State University, USA	Cristiano BALLABIO- University of Milano-Bicocca (UNIMIB), Italy
Florence Carré JRC, Italy	Alex McBratney, University of Sydney, Australia	Budiman MINASNY- University of Sydney (Australia)
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Antonio Leone, CNR-ISAFOM, Ercolano (NA)	Maria de Lourdes MENDONÇA-SANTOS – EMBRAPA Solos, Brazil	Annamaria Castrignanò – CRA-SCA Bari, Italy
	Gilberto Bragato – CRA-RPS Gorizia, Italy	

Draft Program:

SUNDAY 23 – 15.00 – 18.00 Pre-Registration

MONDAY 24 – 1st day, Workshop sessions

TUESDAY 25 – 2nd day, Workshop sessions - Social Dinner

WEDNESDAY 26 – 3rd day, Workshop session – Departure to Siena

THURSDAY 27- Field Trip to Siena

Workshop Topics (first draft)

- DSM techniques for high spatial resolution soil properties mapping (sensors)
- Partially dynamic environmental scenarios in DSM/DSA
- DSM in 3-D: 3D space and 1D time and 2D space
- Continental/Global DSM techniques and standards
- Innovative Soil Inference Systems
- Digital Soil Assessment: techniques and example implementations
- Digital Soil Mapping and Digital Soil Assessment operational tools
- Modelling uncertainties in Digital Soil Assessment

Scientific Field Trip

Tuscany: Siena 27-28 May 2010

The field trip will be organized in three days, with the following draft program:

26 May, (17.00): start from Rome with a Bus, direction Brolio Site (Siena Chianti hills).

Lunch in Brolio area

Dinner and Night nearby Brolio

27 May, morning: visit to the experimental fields in Brolio in which the CRA-ABP is carrying out some soil investigations with both proximal sensors and remote sensing image on soil-crop (vineyards) relations. Visit of Wine Factory “Castello di Brolio”.

27 May, afternoon: site stop in Montagnola Senese Area, and discussion about a) digital soil mapping of both soils and quaternary paleosoils; b) 3D reconstruction of pedostratigraphic levels supporting the quaternary geological map of the area

Dinner and Night in Siena

28 May, morning (8.30) departure to Rome, arrival at lunchtime.

Conference Registration fee: **300 €** (Until the 1 of March 2010) / **350 €** (After the 1 of March 2010)

Field Trip fee: **90 €** (night excluded) Maximum number of participants: 55