

Remote Sensing Seminar

The seminar offers a series of lectures and laboratories aimed at providing participants with the essential tools for the analysis of satellite data and their applications in atmospheric physics, meteorology, environmental monitoring. The seminar will take place September 18 to 24 at the ancient Monastero dei Frati Minori presently hosting the City Hall of Brienza (<http://www.youtube.com/watch?v=YBRqISA-PPM>) and will be held by Prof. W. Paul Menzel of the University of Wisconsin-Madison (UW-Madison).



BRIENZA

18 - 24 Settembre 2011

Basilicata region has already hosted such a seminar in 2003 (Maratea) and 2009 (Sasso di Castalda) attracting young PhD students and researchers from different part of the World.



Programme



HYDRA
HYperspectral-viewer
for Development of
Research Applications –

Su 1 – 4 pm	Lecture 1	Instruments and Orbits
Mo 9 – 12 am	Lecture 2	Radiative Transfer in the Earth Atmosphere
	Homework 1 (due Thursday)	
Mo 2 – 5 pm	Lab 1	Planck Function and Intro to Hydra
Tu 9 – 12 am	Review	Lecture 1 & 2, Lab 1
	Lecture 3	Spectral signatures from Earth
Tu 2 – 5 pm	Lab 2	Interrogating Multispectral Data
We 9 – 12 am	Review	Lecture 3, Lab 2
	Lecture 4	Sounding with broad band and hyperspectral IR
	Quiz 1	
We 2 – 5 pm	Lab 3	Investigations with Imagers and Sounders
Th 9 – 12 am	Review	Quiz 1, Lecture 4, Lab 3
	Homework 2 (due Saturday)	
	Lecture 5	Microwave and time continuous (geostationary) measurements
Th 2 – 5 pm	Lab 4	Investigations of clouds and moisture with MODIS, AIRS and AMSU
	Lab	Assign and start Student Projects
Fr 9 – 12 am	Review	Homework 1, Lecture 5, Lab 4
	Lab	Student Projects
Fr 2 – 5 pm	Lab	Student Projects
Sa 9 – 12 am	Lab	Student Presentations using MODIS, IASI, AIRS, SEVIRI
	Review	Homework 2
	Lecture 6	Summary
	Quiz 2	

The seminar is limited to 20-25 participants, so applicants are invited to send, along with their request of participation, their brief Curriculum Vitae to Dr. Valerio Tramutoli (valerio.tramutoli@unibas.it) and Dr. Filomena Romano (romano@imaa.cnr.it), by next September 12.

All participants will have to provide for their travel expenses and accommodation. Special prices of 23€/night in double room and 33€/night in single room will be assured by the Imperial Hotel in Brienza (<http://www.hotelimperial.net>). A registration fee of 100€ (to be paid on site) will be requested for covering all residual expenses including meals. A contribution to living expenses and / or registration costs will be granted for a limited number of participants who present their request no later than September 2.