

**KRAKOW INTERNATIONAL SUMMER SCHOOL
ON
APPLICATIONS WITH THE NEWEST MULTI-SPECTRAL ENVIRONMENTAL
SATELLITES**

8 - 12 May 2006

**(Supported by the Polish Institute of Meteorology and Water Management, NOAA/NESDIS, and
EUMETSAT)**

- M am** *Welcome* – Discussion of Agenda [*Menzel*]
Lecture 1 – Radiation and the Radiative Transfer Equation [*Menzel*]
Lecture 2 – Spectral signatures from Earth's surface and atmosphere
detected with MODIS and SEVIRI [*Menzel, Prieto*]
- M pm** *Lab 1* – Introduction to the Labs and Hydra [*Menzel, Antonelli*]
Ice Breaker
- T am** *Homework*
Lecture 3a – Introducing Infrared Hyperspectral Data [*Menzel*]
- T pm** *Lab 2* – Multi-spectral Data [*Antonelli, Menzel*]
Staging, Viewing, Interrogating MODIS Data
- W am** *Homework*
Quiz 1
Lecture 3b – Detecting moisture, cloud, and aerosol
with High Spectral Resolution Sounders [*Menzel*]
- W pm** *Lab 3* – High Spectral Resolution IR data [*Antonelli*]
Staging, Viewing, Interrogating AIRS Data
- R am** *Homework*
Lab 4 – Introducing Group Projects [*Menzel, Antonelli*]
(Cal/Val, O₃, Volcanic Ash, Eco Syst, Cld & Aerosol)
- R pm** *Lab 4* Group Lab Projects [*Antonelli, Tutors*]
Group Dinner
- F am** *Lab 4* – Group Lab Projects [*Students, Antonelli*]
- F pm** *Lab 4* Presentation of Group Lab Projects [*Students, Antonelli*]
Lecture 4 – Summary of Remote Sensing Lessons [*Menzel, Antonelli, Tutors*]
Quiz 2
Discussion – Longer Term Projects
Concluding Ceremony

AM sessions: 10:00 am – 12:30 pm – PM sessions: 2:30 pm – 5:00 pm

Instructors

Paul Menzel (NOAA/NESDIS at University of Wisconsin)

Paolo Antonelli (University of Wisconsin)

Izabela Dyras (IMGW)

Jose Prieto

paulm@ssec.wisc.edu

paoloa@ssec.wisc.edu

Izabela.Dyras@imgw.pl

Jose.Prieto@eumetsat.int

Tutors

Bozena Lapeta (IMGW)

Danuta Serafin-Rek (IMWM)

Bozena.Lapeta@imgw.pl

Danulta.Seraf@imgw.pl

Location and Phone

Institute of Meteorology and Water Management,

P. Borowego 14

30-215 Kraków, Poland

tel. (4812) 63 98 196

fax (4812) 42 51 973