



***Advanced High Spectral Resolution Infrared Observations  
Ravello (Italy) 24-26 May 2004***

**AGENDA**

**24 May 2004**

**Morning: Ravello (Villa Rufolo)**

- ❖ ***Clouds and Radiation.*** Session Chairman: **Paul Menzel** (NOAA/NESDIS)
  - 08:50-09:00 Introduction
  - 09:00-09:35 *Radiative Transfer.* **Sergio DeSouza-Machado** (University of Maryland Baltimore County)
  - 09:45-10:20 *Radiative transfer in presence of Clouds.* **Rolando Rizzi** (University of Bologna)
  - 10:30-10:45 BREAK
  - 10:45-11:20 *Super Fast PC-based Forward Radiative Transfer Model.* **Xu Liu** (NASA LaRC)
  - 11:30-12:05 *Fast Models for Cloudy Radiances.* **Allen Huang** (CIMSS/SSEC University of Wisconsin-Madison)
  - 12:15 ADJOURNMENT

**Afternoon: Ravello (Villa Rufolo)**

- ❖ ***Sounding in Presence of Clouds.*** Session Chairman: **Filomena Romano** (IMAA/CNR)
  - 14:05-14:15 Introduction
  - 14:15-14:50 *Retrieval of cloud properties from high spectral resolution IR remote sensing.* **Dan DeSlover** (CIMSS/SSEC University of Wisconsin-Madison)
  - 15:00-15:35 *CO<sub>2</sub> slicing adapted to hyperspectral sounding for cloud height and cloud fraction determination.* **Peter Schlüssel** (EUMETSAT)
  - 15:45-16:00 BREAK
  - 16:00-16:35 *Cloud detection using auto-correlation functions.* **Giuseppe Grieco/Carmine Serio** (University of Basilicata)
  - 16:45-17:20 *Statistically-based cloud detection.* **Roberto Episcopo** (University of Sannio)
  - 17:30-18:30 Discussion
  - 18:30 ADJOURNMENT

**Evening: Ravello (Villa Rufolo)**

- ♪ **21:30 Concert:** Martin Krantzsch (clarinet) Paolo Francese (Piano)
  - R. Schumann: Fantasiestücke op. 73
  - C.M. von Weber: Variazioni su tema di Silvana op. 33
  - J. Brahms: Sonata in fa minore op. 120 n. 1

25 May 2004

**Morning: Ravello (Villa Rufolo)**

- ❖ **Cloud properties.** Session Chairman: **Guido Masiello** (IMAA/CNR)/**Carmine Serio** (University of Basilicata)
  - 08:50-09:00 Introduction
  - 09:00-09:35 Variational cloud detection. **Andrew Collard** (UK Met Office)
  - 09:45-10:20 Investigation of the radiative properties of cirrus clouds in the thermal infrared. **Stuart Newman** (UK Met Office)
  - 10:30-11:05 Validation of AIRS cloud detection using MODIS. **Lydie Lavanant** (Meteo-France)
  - 11:05-11:20 BREAK
  - 11:30 Departure from Ravello (to Benevento)

**Afternoon: Benevento, MARS (Villa dei Papi)**

- 13:30 Arrival in Benevento
- 13:30-14:30 Lunch at the “Villa dei Papi”

- ❖ **Cloud properties.** Session Chairman: **Bill Smith** (NASA LaRC)
  - 14:30-14:40 Introduction
  - 14:40-15:15 *The case for hyperspectral sounding from the next generations of operational geostationary satellites.* **Bizzarro Bizzarri**
  - 15:25-16:00 *Soundings in presence of clouds.* **Paolo Antonelli** (CIMSS/SSEC University of Wisconsin-Madison)
  - 16:10-16:25 BREAK
  - 16:25-17:00 *Retrieval using cloudy radiances.* **Bill Smith** (NASA LaRC)
  - 17:10-18:00 Group Discussion
  - 18:00 ADJOURNMENT

**Evening: Benevento, MARS (Villa dei Papi)**

- ❖ 18:00-19:00 Visit to MARS DB Station. **Maurizio di Bisceglie** (University of Sannio)  
*Visualization and Manipulation of Hyperspectral Data with HYDRA.*  
**Tom Rink** (CIMSS/SSEC University of Wisconsin-Madison)
- ❖ 19:00-19:20 Greetings from local authorities
- ❖ 19:20-21:00 **Workshop Banquet**
- 21:00 Departure from Benevento (to Ravello)

26 May 2004

**Morning: Ravello (Villa Rufolo)**

- ❖ **Special Issues: Surface Properties and Atmospheric Constituents.** Session Chairman: **Hank Revercomb** (SSEC University of Wisconsin-Madison)
  - 08:50-09:00 Introduction
  - 09:00-09:35 *Surface properties from AIRS.* **Paul Menzel** (NOAA-NESDIS)
  - 09:45-10:20 *Surface properties.* **Robert Knuteson** (SSEC University of Wisconsin-Madison)
  - 10:30-10:45 BREAK
  - 10:45-11:20 *Retrieval of CO from NAST-I data.* **Dan Zhou** (NASA LaRC)
  - 11:30-12:05 *Refining the training sets for regression retrievals.* **Elisabeth Weisz** (CIMSS/SSEC University of Wisconsin-Madison)
  - 12:15 ADJOURNMENT

**Afternoon: Ravello (Villa Rufolo)**

- ❖ **Instrument Status Report.** Session Chairman: **Peter Schlüssel** (EUMETSAT)
  - 14:05-14:15 Introduction
  - 14:15-14:50 *S-HIS & NAST-I calibration.* **Hank Revercomb** (SSEC University of Wisconsin-Madison)
  - 15:00-15:35 *IASI mission objectives, development status and expected products.* **Thierry Phulpin** (CNES)
  - 15:45-16:00 BREAK
  - 16:00-16:35 *Infrared radiance validation studies applicable to CrIS and other high spectral resolution systems.* **Allen Larar** (NASA LaRC)
  - 16:45-17:20 *GIFTS Status and Relation to GOES-R HES Specification.* **Gail Bingham** (Space Dynamics Laboratory)
  - 17:30-18:30 Discussion
  - 18:30 ADJOURNMENT

Session Chairmen:

1. W. P. Menzel (NOAA-NESDIS)
2. W. L. Smith (NASA LaRC)
3. P. Schlüssel (EUMETSAT)
4. H. E. Revercomb (SSEC University of Wisconsin-Madison)
5. Filomena Romano (IMAA/CNR)
6. Guido Masiello/Carmine Serio (University of Basilicata)