

Fostering a new generation of Remote Sensing Scientists

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While focusing on the design and development of future instruments and the associated data processing algorithms, SSEC also pursues educational goals by spreading environmental awareness and emphasizing the relevance of satellite remote sensing of the Earth. In particular many of SSEC's recent training efforts have focused on national and international researchers interested in theoretical and operational aspects of remote sensing.

SSEC and CIMSS have hosted workshops for the last three years that bring both young and more experienced scientists together to discuss new data, techniques and results. They have also given weeklong remote sensing seminars that provide a broader and more fundamental perspective to experienced and new researchers and to the graduate students around the world. These seminars often include lectures on

- Radiation and the radiative transfer equation,
- Remote sensing of the Earth surface and its atmosphere,
- Instrument considerations,
- Algorithms for detecting and estimating water vapor, cloud, and aerosol properties,
- Current and future remote sensing capabilities.

The lectures are supplemented with laboratory exercises that emphasize investigation of high spatial resolution visible and infrared data (from MODIS and MSG) and high spectral resolution infrared data (from AIRS and the Scanning HIS).

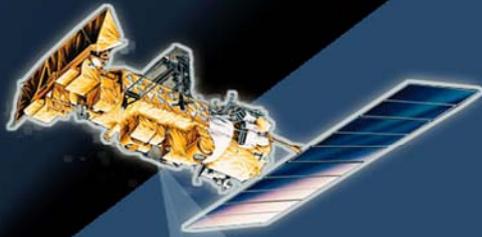
In the last five years, from China to South Africa to New York City, SSEC and CIMSS scientists have brought greater understanding of the technology, the applications, and the benefits of remote sensing measurements of our Earth, to more than 400 students. Through these efforts SSEC provides a solid contribution in fostering a new generation of scientists, who will help to carry our work forward in a team-oriented fashion.

INTERNATIONAL
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Sharing ideas, plans and techniques

to study the earth's weather

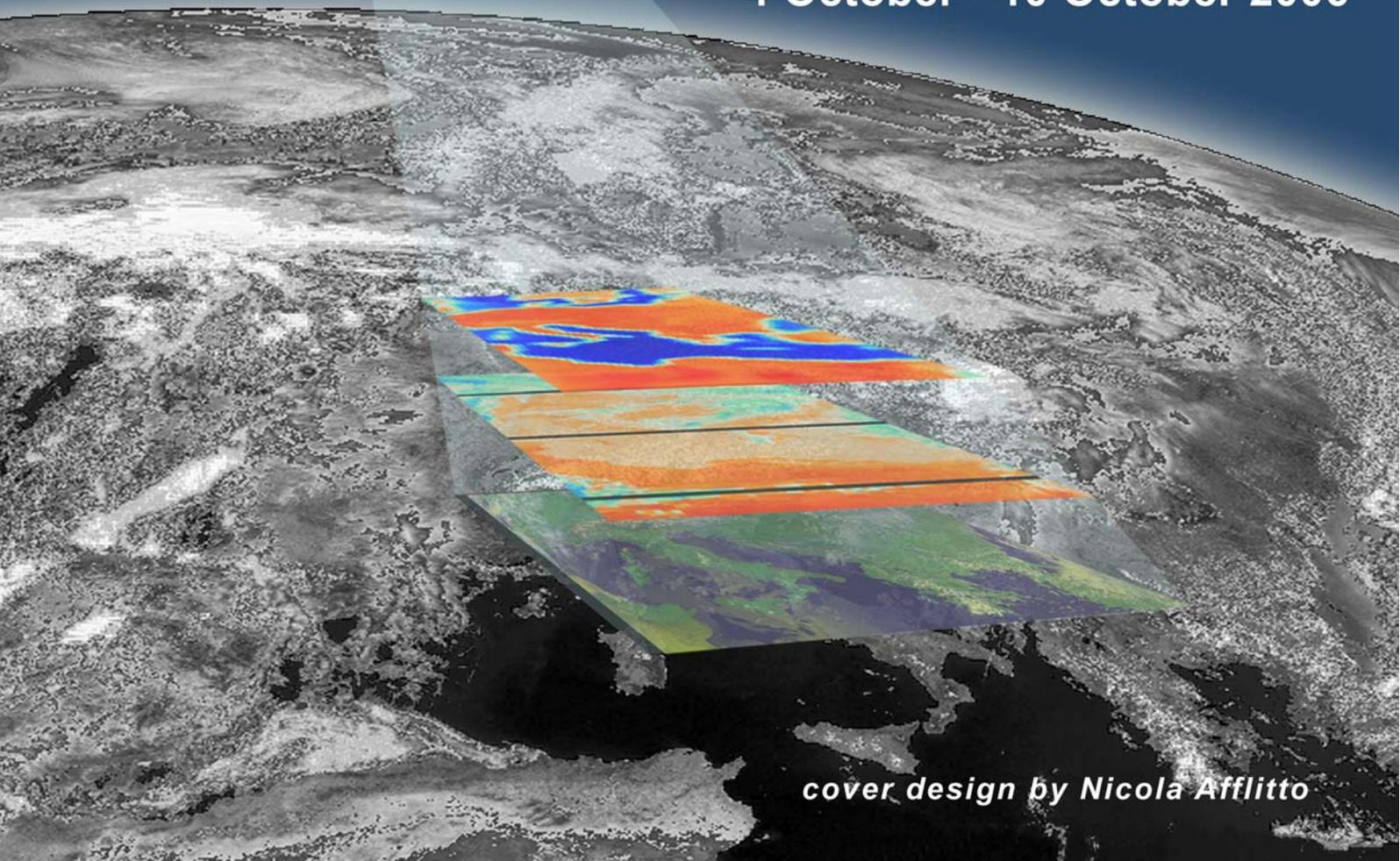
using space-based observations



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