	The Abdus Salam International Centre for Theoretical Physics
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College of Soil Physics

22 October - 9 November, 2007

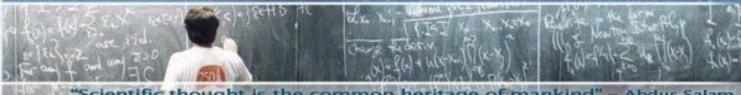
Introduction

Ed Skidmore
USDA-ARS Manhattan, Kansas, USA



The Abdus Salam

International Centre for Theoretical Physics



cientific thought is the common heritage of mankind" - Abdus Salam

College on Soil Physics

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Miramare – Trieste, Italy

Directors:

Donald Gabriels

Donald Nielsen

Ildefonso Pla Sentis

Edward Skidmore

Local Organizer:

GianCarlo Ghirardi

Secretariat:

Nadia van Buuren

WASWC EDITORIAL TEAM MEMBER HAS UNIQUE EXPERIENCE. On 12-30 September 2005, Claudio Kvolek participated in College on Soil

Physics at the Abdus Salam International Centre for Theoretical Physics (ICTP). The ICTP, in Trieste, Italy, located on the shore of the Adriatic Sea, is a unique scientific institution dedicated to both research and training. The Centre has earned an international reputation for its contribution to the advancement of science in developing world with an expanding array of physics topics. The College on Soil Physics is one of the longest continuous running programs at ICTP.

The College on Soil Physics had a unique beginning. In 1980, while participating in an ICTP Autumn Course on the Physics of Flow in Oceans, Atmospheres and Deserts, Donald Gabriels, University of Ghent, Belgium, queried: "ICTP is a great centre of physics but does not include an

activity on Soil Physics, how come?" When Edward Skidmore soil physicist, arrived to lecture on "Physics of

Descrification" prompted by the Gabriels' query, Centre officials approached Skidmore with the request: "We are thinking about adding a course on soil physics at ICTP and would appreciate a proposed outline." Skidmore and Gabriels both submitted similar course proposals for a College on Soil Physics. The proposals were approved and funded. The first College on Soil Physics was held in 1983 with Gabriels

and Skidmore as co-directors. Subsequently, Donald Nielsen, USA, and Ildefonso Pla Sentis, Spain, joined Gabriels and

Skidmore as directors of the activity. GianCarlo **Ghirardi**, University of Trieste, is the local organizer. Since starting in 1983 ten Colleges on Soil Physics have been held with almost 700 scientists from approximately 70 countries. All inhabited continents have been represented.

The main topics in the 2005 college were: ...- Ing. Claudio M. Kvolek, 2005, Management and Soil Conservation, University of Buenos Aires, Argentina (WASWC Editorial Team), Residence and Buenos Aires.





Objective

To give the participant an overview of the soil resource and develop and understanding of fundamental soil physical properties and processes.

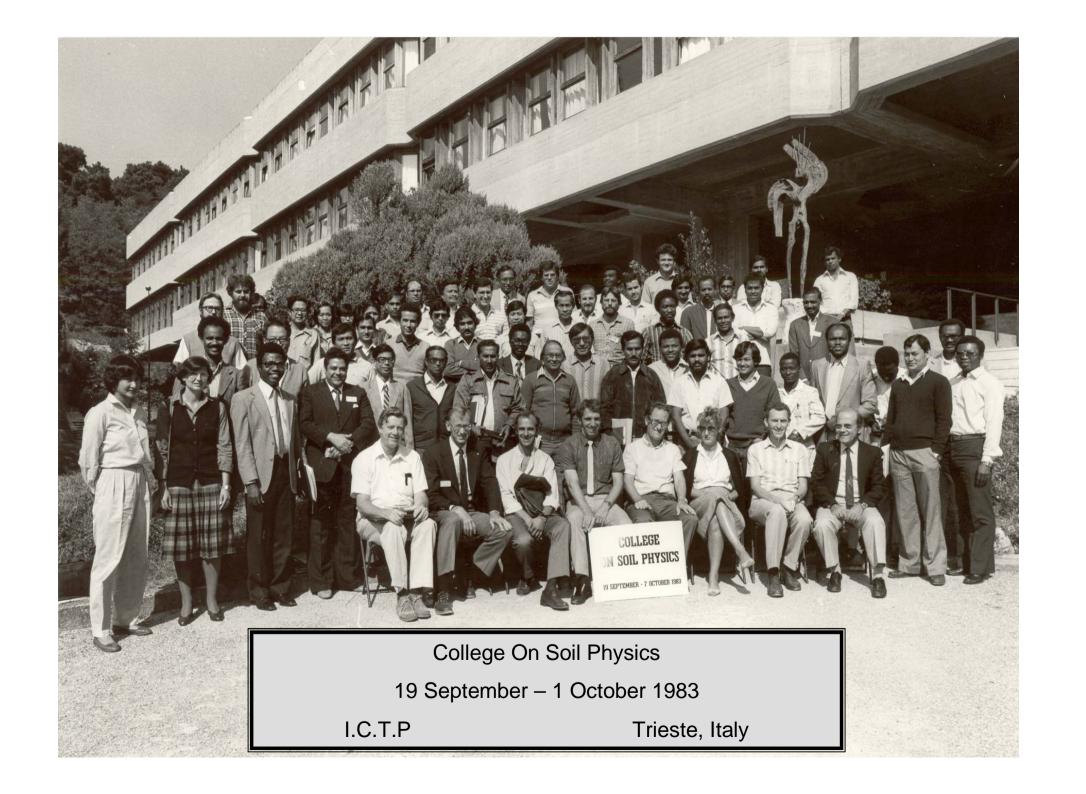
The participant should be able to apply knowledge gained and skills developed to solving problems in soil physics.

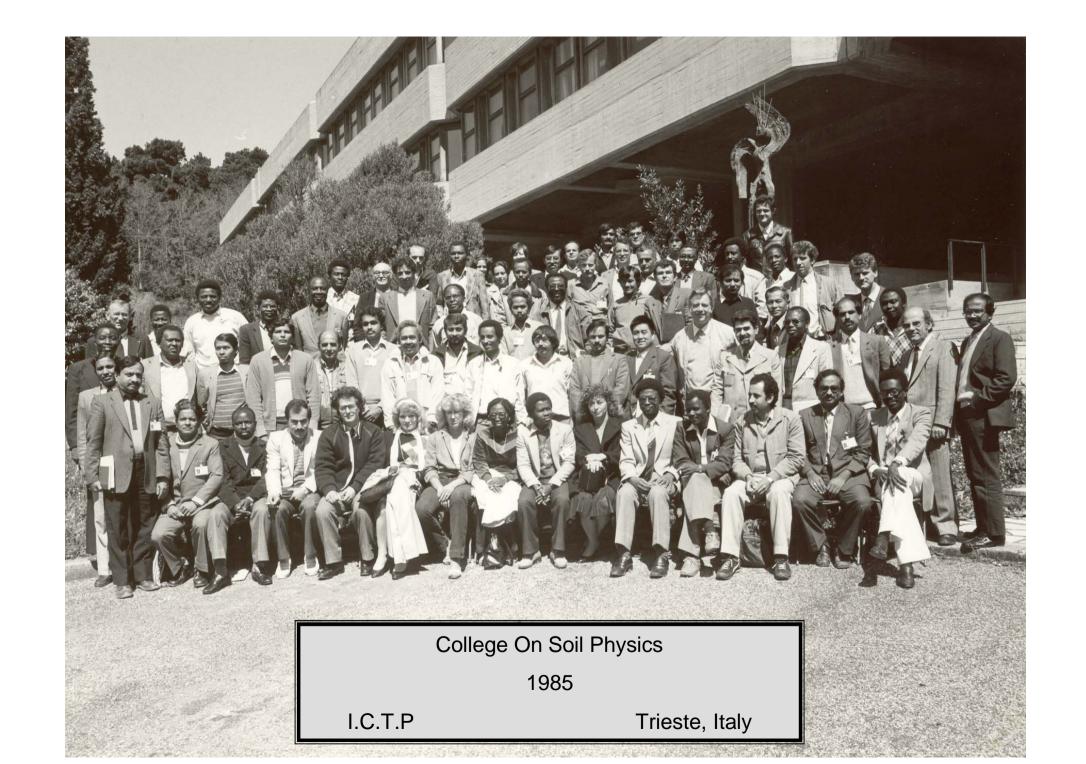
Soil Physics Course Outline

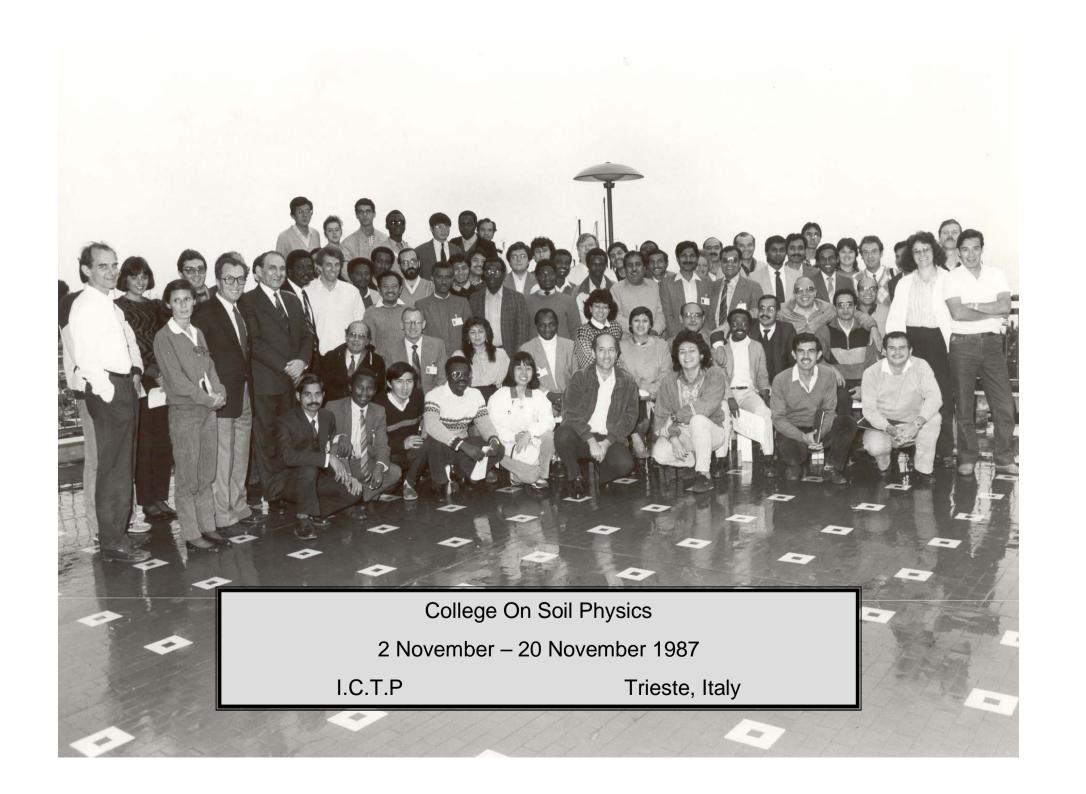
- The soil resource
- Basic physical properties
- Soil Water
- Soil air
- Soil-plant-atmosphere relations
- Soil heat flow and temperature
- Soil erosion by water
- Soil erosion by wind

Soil Physics Course Outline (cont.)

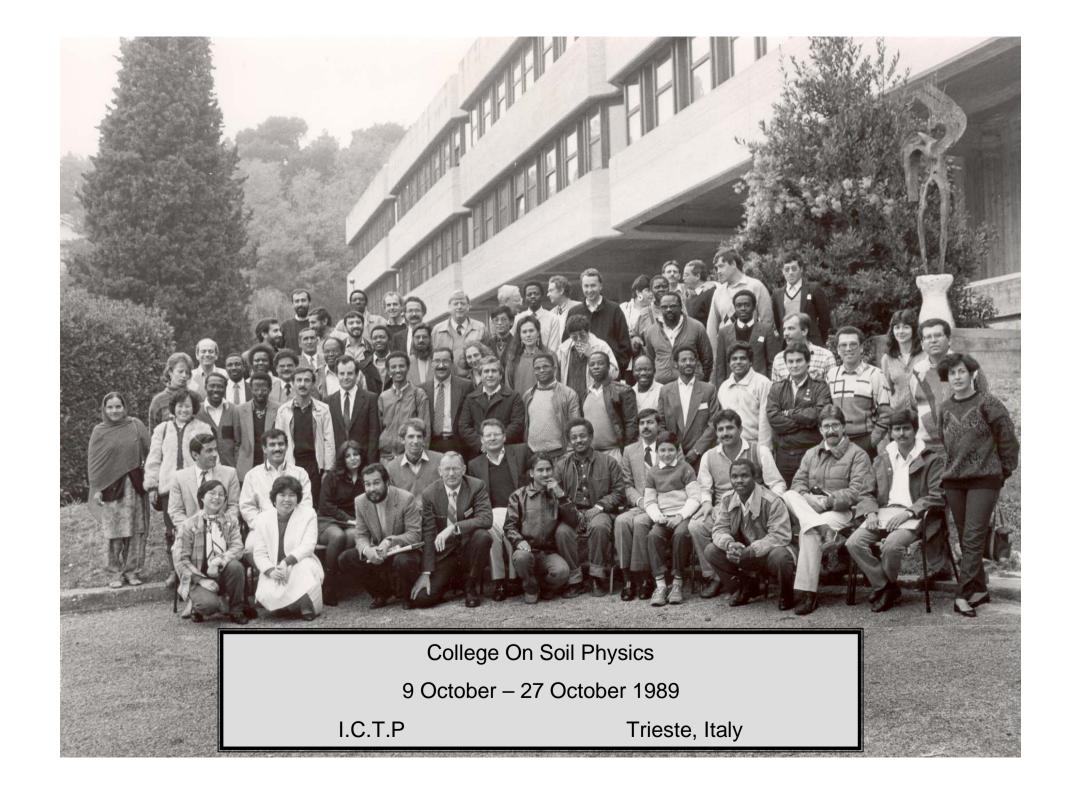
- Desertification
- Geostatistics
- Salinization
- Sodification
- Climate change
- Presentations by participants





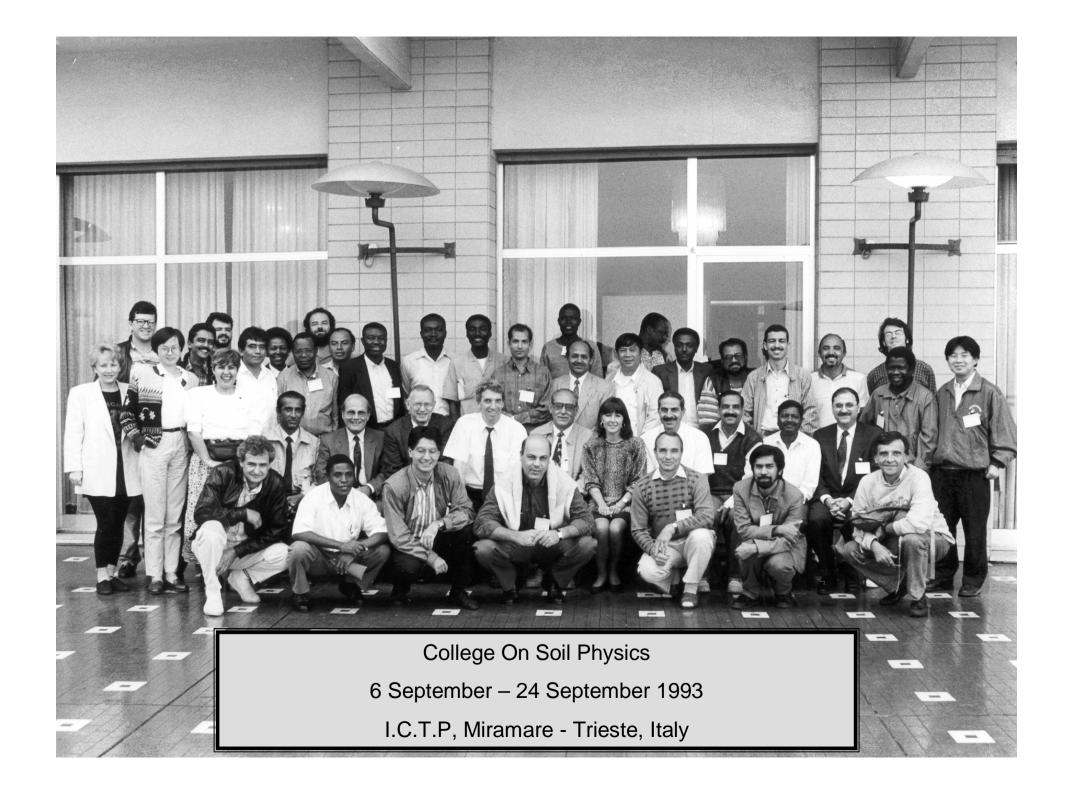


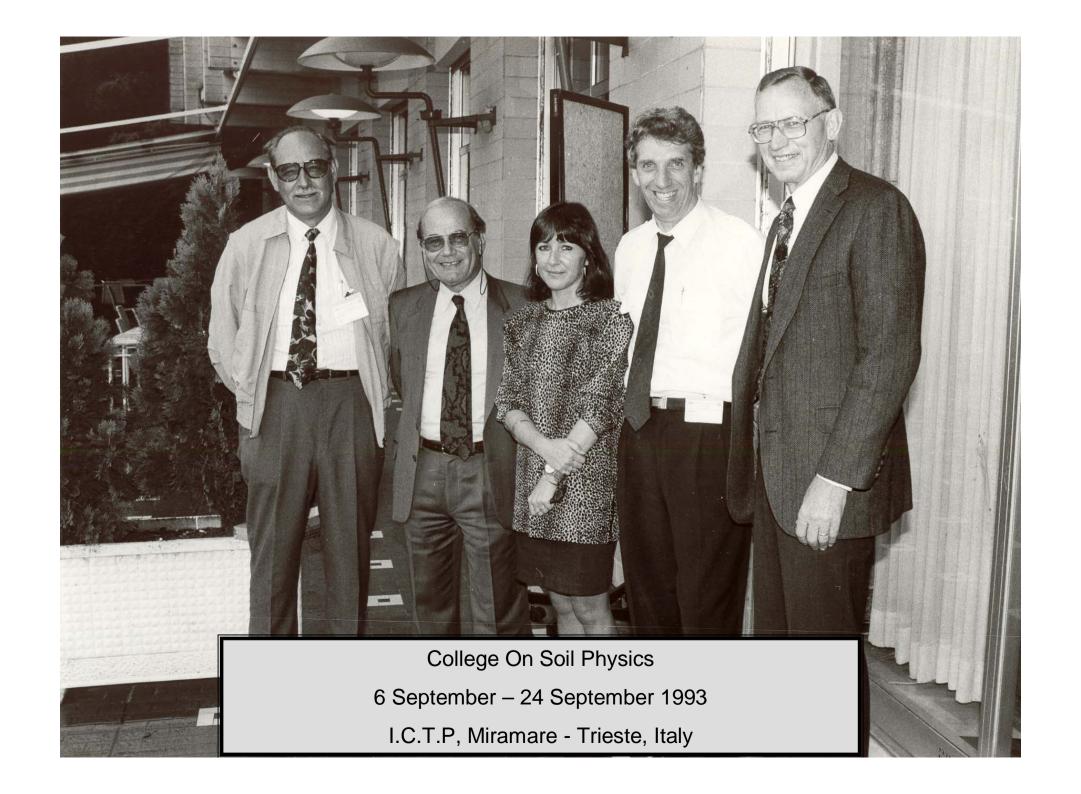


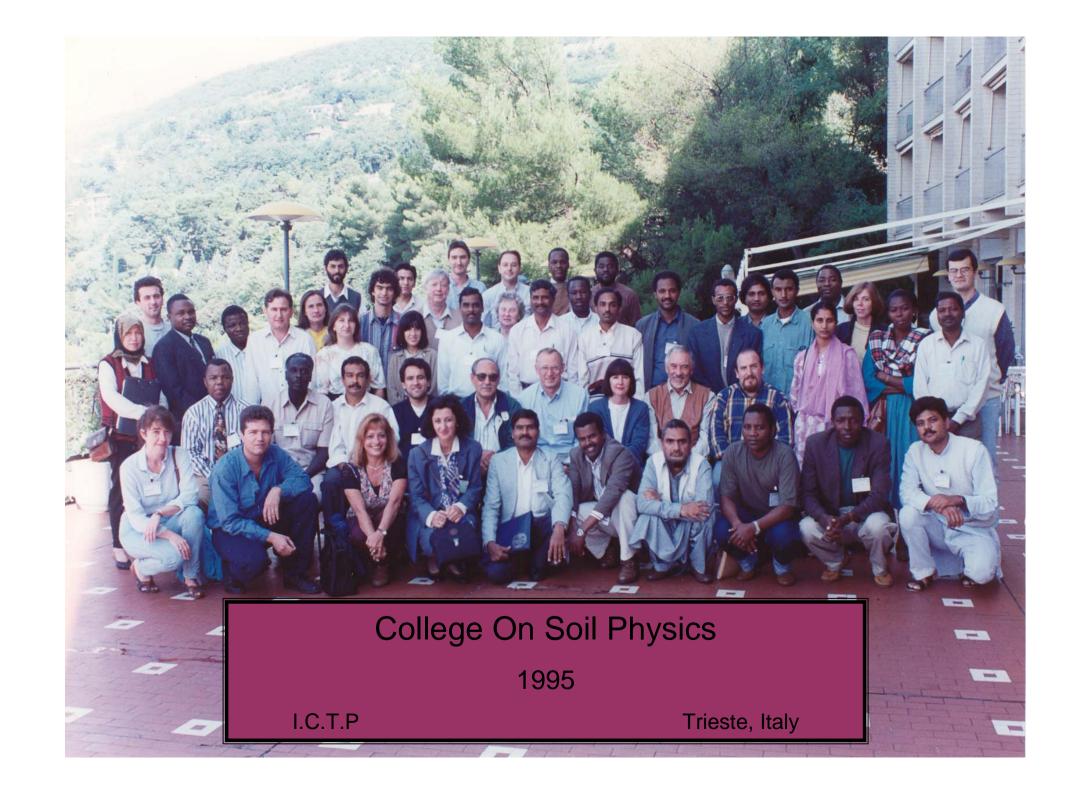


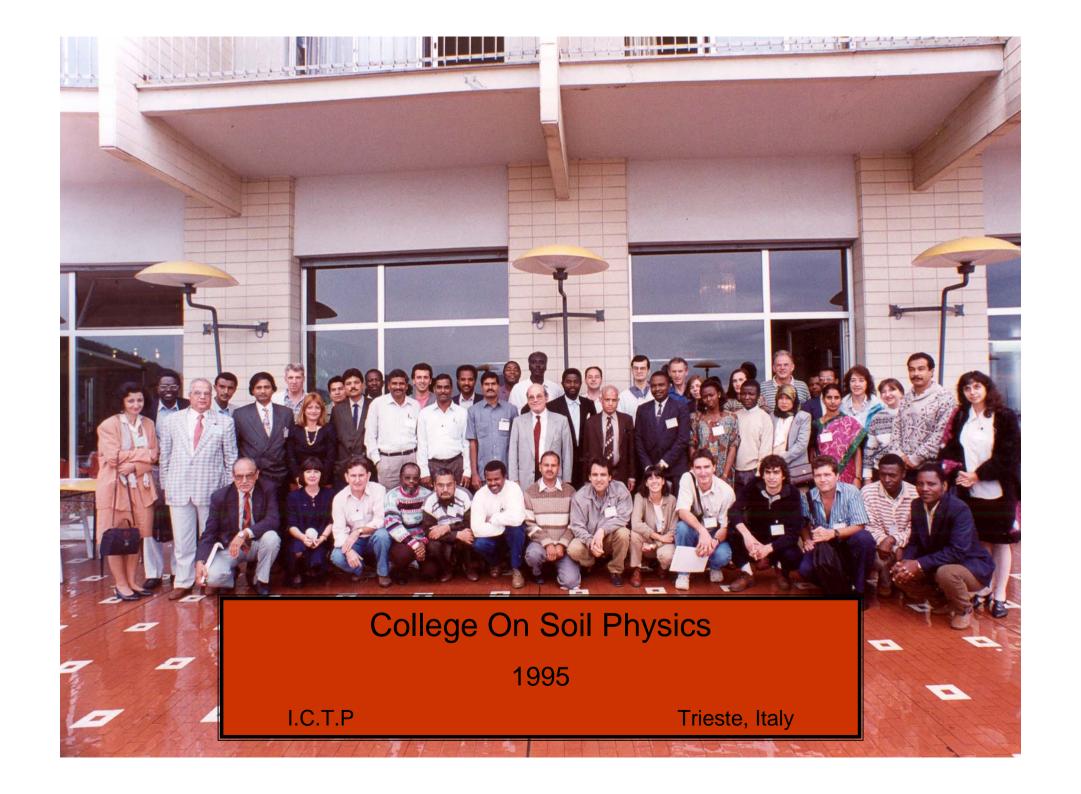
















College On Soil Physics 2001

I.C.T.P

Trieste, Italy

Pictured are: Luis Fernando Chavez, Rehab Eltayb Hassan, Ivan Chirinos, Venelina Koleva, Deyanira Lobo, Domnica Breban, Lourdes Ruiz Guiterrez, Vladia Correchel, Svetla Rousseva, Marcello Pagliai, Kamal Jeet Singh, Elena Bojilova, Jose' Ronaldo de Machedo, Salona Senoussi, Usha Singh, Shayra Shahira, Xiomara Abreu, Hema Achyuthan, Luis Carlos Timm, Ishwar Paul Sharma, Daniel Okae-Anti, Jozsef Urban, Ildefonso Pla Sentis, Flavia Bartoly Rosa, Moacir Souza Dias Junior, Maria Elena Ruiz Peraz, Lalla Laaziza Ichir, Joao Eduardo Pilotto, Donald Gabriels, Maroslav Kutilek, Jorge Diaz, Kouman Koumanov, Mahmut Basi Halitigil, Anisur Rahman Khan, Milena Kercheva, Gariella De Meo, Mariela Rivera, Giancarlo Ghirardi, Muhammad Latif, Donald Nielson, Charles Asadu, Wang Yu, Sanjay Kumar Sharma, Marco Gani, Pragnesh Gajjar, Alberto Jorge Sfeir, Rajesh Shah and Daniel Kwasi Asare.

20TH ANNIVERSARY COLLEGE ON SOIL PHYSICS

ICTP

M&RCH 2003

TRIESTE, ITALY



Front row (seated & kneeling) left to right: Joanne Nielsen, (USA), Maria Teresa Alonso (Cuba), Selina Camacaro (Venezuela), Yezena Huaypar Vasquez (Peru), Teresa Lopez Seijas (Cuba), Daniel Okae-Anti (Ghana), Cretu Mirela-Simona (Romania), Maria Elena Ruiz (Cuba), Olteanu Mirela Carmen (Romania), Ildefonso Pla Sentis (Spain), Adriana Lucia da Silva (Brazil), Ligmar Carolina Lopez Plaz (Venezuela).

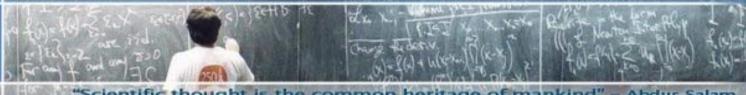
Standing left to right: Leonardo Lugo Salinas (Venezuela), Durval Dourado Neto (Brazil), Miguel A. Taboada (Argentina), Radka Kodesova (Czech Republic), Huijun Wu (China), Donald Nielsen (USA), Jesus H. Galvis (Columbia), Sampson Agodzo (Ghana), Roger Hartmann (Belgium), Carlos Espinosa Jimenez (Venezuela), Hanoi Medina (Cuba), Bucur Maria Crina (Romania), Giancarlo Ghirardi (Italy), Donald Gabriels (Belgium), Ravindrababu B.T. (India), Mensah Bonsu (Ghana), Luis Guarracino (Argentina), Jose Miguel de Paz (Spain), Luiz Fernando Pires (Brazil), Svetla Rousseva (Bulgaria), Plamen Ivanov (Bulgaria), Martin Nenov (Bulgaria), Mauro Giudici (Italy), Moacir Dias Junior (Brazil).





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