ICTP - The Abdus Salam International Centre for Theoretical Physics, Trieste, Italy

smr1304/Announcement

COLLEGE ON SOIL PHYSICS

12 - 30 MARCH 2001

followed by

WORKSHOP ON

"SOIL SYSTEMS IN THE CONTEXT

OF CLIMATE CHANGE"

2 - 6 APRIL 2001

Miramare - Trieste, Italy

The Abdus Salam International Centre for Theoretical Physics (ICTP), Trieste, Italy, will organize a College on Soil Physics, to be held from 12 to 30 March 2001. The College will be followed by a Workshop on Soil Systems in the context of Climate Change from 2 - 6 April 2001.

DIRECTORS

College on Soil Physics

Prof. D. Gabriels (Department of Soil Management and Soil Care, Ghent University, Belgium)

Prof. D. Nielsen (Department of Land, Air and Water Resources, University of California, Davis, U.S.A.)

Prof. I. Pla Sentis (Facultad de Agronomia, Universidad Central de Venezuela,

Maracay, Venezuela/Departamento de Medi Ambient i

Ciencies del Sol, Universitat de Lleida, Lleida, Spain)

Prof. E. Skidmore (U.S. Department of Agriculture, Manhattan, Kansas, U.S.A.)

Workshop on "Soil Systems in the context of Climate Change"

LOCAL ORGANIZER (for both Activities)

Prof. G. Ghirardi (University of Trieste and ICTP, Trieste, Italy)

PURPOSE AND NATURE

The College aims to provide participants with a knowledge of soil physical properties and processes so that they may understand and solve agronomic, engineering and environmental problems and activities such as drainage, irrigation, erosion, fertilization, soil pollution. The College will be in part descriptive and theoretical, but special attention will also be given to practical applications, instrumentation, measurement techniques and modelling of physical processes in the soil. The Workshop is aimed at developing integrated coping strategies to mitigate the adverse consequences of climate change through an understanding of the inter-relationships between the biophysical and socioeconomic factors involved. Emphasis will also be placed on interactions/discussions with the participants, and time will be made available for those participating to give special presentations. Applicants are encouraged to prepare a short resumé of their work and research activities.

The following topics will be covered during the College:

and property measurements)

 $\ensuremath{ \ensuremath{ \en$

balance)

 \in Erosion processes (physics, measurement, prediction, and control)

€ Solute transport processes (leaching, soil salinity, pollution and

remediation)

 $\ensuremath{\, \ensuremath{ \e$

technology)

The themes of the Workshop are:

€ Implications of climate change scenarios for soil parameters

€ Carbon sequestration in agricultural soils as a way of mitigating

the

greenhouse effect

€ Soil CO2 - soil moisture - evapotranspiration - crop productivity

of

 ${\ensuremath{\, \ensuremath{ \in}}}$ Integrated Assessment Models (IAMs) of climate change, and costing

mitigation options, scientist - stakeholder interaction to implement
coping

scenarios

PARTICIPATION

The College and Workshop are intended for students and professionals with varied background in physics, mathematics, soils, engineering, agricultural and environmental sciences. They are open to scientists from all countries that are members of the UN, UNESCO or IAEA. The main purpose of the ICTP is to help research workers from developing countries, but graduate students and post-doctoral scientists from developed countries will also be welcome to attend the activity. Participants should preferably have completed several years of study and research after a first degree. As the College will be conducted in English, participants should have an adequate working knowledge of that language.

As as rule, travel and subsistence expenses of the participants should be borne by the home institutions. However, limited funds are available for some scientists from developing countries. As scarcity of funds allows travel to be granted only in a few exceptional cases, every effort should be made by candidates to secure support for their fare (or at least half-fare) from their home country. It is stressed that participants whose travel expenses are paid by the ICTP are required to attend the entire College and Workshop. There is no registration fee for this College.

The closing date for requesting participation is 15 December 2000. The request for participation form, to be found at the back of the Bulletin (also obtainable via e-mail: smr1304@ictp.trieste.it, by typing on the subject line "get index", or via WWW Server: http://www.ictp.trieste.it/), should be completed, signed and sent to the below address. If sending an application by e-mail, please save and send file attachments in RTF format.

the Abdus Salam International Centre for Theoretical Physics

College on Soil Physics (SMR1304)

and Workshop on "Soil Systems in the context of Climate Change"

(c/o Ms. G. De Meo)

Strada Costiera 11, I-34014 Trieste, Italy

Telephone: +39 040 2240355

Telex: 460392 ICTP I

Telefax: +39 040 2240585

E-mail: smr1304@ictp.trieste.it

Trieste, October 2000

UNITED NATIONS EDUCATIONAL SCIENTIFIC AND CULTURAL ORGANIZATION

and

INTERNATIONAL ATOMIC ENERGY AGENCY

the ABDUS SALAM INTERNATIONAL CENTRE FOR THEORETICAL PHYSICS

Strada Costiera 11	Telephone:	+39-040-2240355
I-34014 Trieste	Telex:	460392 ICTP I
Italy	Telefax:	+39-040-224585

REQUEST FOR PARTICIPATION

COLLEGE ON SOIL PHYSICS

12 - 30 March 2001

followed by

Workshop on "SOIL SYSTEMS IN THE CONTEXT OF CLIMATE CHANGE"

2 - 6 April 2001

E-mail: SMR1304@ictp.trieste.it

INSTRUCTIONS

Each question must be answered clearly and completely. A recent photograph of Type or print in ink. If more space is required, the candidate should attach additional pages. This form should be forwarded be attached here, to the: the Abdus Salam International Centre for signed legibly on the College on Soil Physics and reverse. Workshop on "Soil Systems in the Context of Climate Change, (c/o G. De Meo), Strada Costiera 11, I-34014 Trieste, Italy, to arrive no later than 15 December 2000. NOTE: This request will be processed only if the permanent address (and present address, if different) is clearly indicated. The ICTP cannot process any visa request, unless all requested personal data are provided.

If sending an application by e-mail, please save and send file attachments in RTF format.

PERSONAL DATA

SURNAME/FAMILY Name: MAIDEN NAME: First name: Middle name(s): Sex:

For women only (if applicable)

IMPORTANT: PLEASE ALSO COMPLETE THIS SECTION, IF YOU NAME(S) IN YOUR PASSPORT

ARE SPELT DIFFERENTLY FROM THE ABOVE.		
SURNAME/FAMILY Name: MAIDEN NAME: First n For women only (if applicable)	name: Midd.	Le name(s)
Place of birth (City and Country): Present nat birth:		Date of ar - Month - Day
Full address of permanent Institution:	Institute:	Tel. No. Telex/Cable
	Your Office:	Telefax Tel. No. Telefax
	E-mail:*	
Full address of present Institution (if differe	ent from permaner	nt):
	Institute:	Tel. No. Telex/Cable Telefax
	Your Office:	Tel. No. Telefax:
until date	E-mail:*	
Home address:	Tel. No.	

Mailing address - please indicate whether: Permanent address _____

	Present address				
		Home address			
Name and address of person to no Relationship:	otify in case o	of emergency -			
			Tel no:		
* I agree that my e-mail addres ICTP WWW page: YES NO		public on the			
EDUCATION (higher degrees)					
University or equivalent Degrees	Years attended	d			
Name and place	From To	0			

Seminars, summer schools, conferences or research

Name and place Year

SCIENTIFIC	EMPLOYMENT	AND	ACADEMIC	RESPONSIBILITY

Research Academic	Institution	or	University	Period	of	duty
Name and	place			From		То

Name and place responsibilities

Present employment and duties, and foreseen employment upon return to home country after the activity:

Have	you	participated	in	past	ICTP	activities:	Yes	No	

If yes, which?

Are you applying to any other 2000 ICTP activities?

If yes, which?

Yes _____ No ____

Mention briefly your previous research experience, and explain your reasons for wishing to participate in this activity:

NB: Our Scientific Information System keeps track of all applications made by the candidate to earlier ICTP activities. As a consequence, when the subject of the present activity is far from your previous applications, an explanation (not more than 200 words) of your change of interest should be included.

PRESENT FIELD OF INTEREST (please indicate on the list below your TWO primary fields of interest in order of priority). 10. PHYSICS OF CONDENSED MATTER 60. PHYSICS TEACHING 11. Solid State Physics 61. English 12. Atomic and Molecular Physics 62. French 13. Materials Science 63. Spanish 14. Surfaces and Interfaces 64. Arab 15. Statistical Physics 16. Computational Physics in Condensed Matter 80. MISCELLANEOUS 20. PHYSICS OF HIGH AND 81. Others INTERMEDIATE ENERGIES 82. Digital Communications and Computer Networking 21. High Energy and Particle Physics 22. Relativity, Cosmology Astrophysics 90. PHYSICS OF THE LIVING STATE 23. Plasma Physics 24 Nuclear Physics 91. Neurophysics 92. Biophysics 30. MATHEMATICS 93. Medical Physics

31. Applicable Mathematics including: AO. APPLIED PHYSICS

Al. Physics in

A2. Microelectronics

A3. Fibre Optics for

Communications

A4. Instrumentation

A6. Non-destructive

A5. Synchrotron

A7. Lasers

AA. Applied

- Mathematical Ecology,

- System Analysis, Industry

- Mathematical Economy

- Mathematics in Industry
- 33 Algebra
- 34. Geometry

35. Topology Radiation

36. Differential Equations Evaluation

37. Analysis

38. Mathematical Physics Superconductivity

B1. SPACE PHYSICS

40. PHYSICS AND ENERGY

- 41. Physics of Nuclear Reactors
- 42. Physics of Controlled Fusion
- 43. Non-Conventional Energy
 - (Solar, Wind and others)

50. PHYSICS OF THE ENVIRONMENT

- 51. Solid Earth Geophysics
- 52. Soil Physics
- 53. Climatology and Meteorology
- 54. Physics of the Oceans

- 55. Physics of Desertification
- 56. Physics of the Atmosphere, Troposphere Magnetosphere, Aeronomy
- 57. Environmental Monitoring and Remote

Sensing

Kindly supply a keyword description of your current scientific activities, as follows (strictly within indicated lengths):

1) Area of research: (e.g.)

|_____

(no more that 15 characters)

2) Specific topic of interest: (e.g.)

(no more than 30 characters)

List your scientific publications including books and articles (authors, title, Journal) in the period 1995-2000:

Kindly state any positions you hold in the scientific administration of your Institution or any of the national scientific Institutions.

It would be of assistance to the Selection Committee if this request for participation were accompanied by a letter of recommendation, especially for junior physicists.									
Indicate	below	your	proficie	ency in	the Engl	lish l	anguage	2	
Indicate	below	your	proficie	ency in	the Engl	lish l	anguage	2	
Reading:	Good			Writing	: Good		_	Speaking:	Good
Average _	Avera	ige			Average	2	_		
	Poor				Poor		_		Poor

APPLICABLE ONLY FOR CANDIDATES FROM DEVELOPING COUNTRIES (Important: Owing to limited funds, support for travel will be granted only in exceptional cases. Therefore, every effort should be made by applicants to secure support for their fare (or at least a partial contribution) from their home country).

Request for Financial Assistance: (Please tick ONE box only)

_____ Full Travel + Subsitence _____ Subsistence only

_____ Half Travel + Subsitence _____ No financial support requested

I certify that if granted funds for my

travel, I shall attend the whole activity

Signature

I certify that the statements made by me above are true and complete. If accepted, I undertake to refrain from engaging in any political or other activities which would reflect unfavourably on the international status of the ICTP. I understand that any breach of this undertaking may result in the termination of the arrangements relating to my visit at the Centre.

Signature of candidate

Date

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