

ICTP – [The Abdus Salam International Centre for Theoretical Physics](#), Trieste, Italy

## **smr1328/Announcement**

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SCHOOL ON THE PHYSICS OF THE EQUATORIAL ATMOSPHERE

24 SEPTEMBER – 5 OCTOBER 2001

Miramare – Trieste, Italy

A two-week School on the Physics of the Equatorial Atmosphere will be held at the Abdus Salam International Centre for Theoretical Physics (ICTP), Trieste, Italy, from 24 September to 5 October 2001. The School is designed for graduate students and young postdoctoral scientists with some background in atmospheric science.

### CO-SPONSORS

The School will be co-sponsored by:

- The Equatorial Processes Including Coupling (EPIC) initiative of the Scientific Committee on Solar Terrestrial Physics (SCSTEP)
- The Stratospheric Processes and their Role in Climate (SPARC) initiative of the World Climate Research Programme
- The International Commission for the Middle Atmosphere (ICMA) of the International Association of Meteorology and Atmospheric Science (IAMAS)
- The Conselho Nacional de Desenvolvimento Científico e Tecnológico of Brazil (CNPq)

### PURPOSE

Many of the most interesting phenomena observed in the atmosphere occur near the equator. This school will introduce students to exciting research areas concerned with low-latitude dynamics of both the neutral atmosphere and ionosphere. Specific topics will include: observational techniques, theory of internal gravity waves and equatorial waves, wave-mean flow interaction and the theory of the quasi-biennial oscillation, the semiannual oscillation, organization of tropospheric moist convection and excitation of equatorial and gravity waves, thermospheric thermal structure, composition and dynamics, solar-terrestrial coupling, basic ionospheric production, transport, dynamo and equatorial electrojet, effects of upward-propagating tides and planetary waves, ionospheric morphology, small-scale structures and instabilities, scintillations, F-region emissions, ground-based optical diagnostics, low-latitude electrodynamics and ion-neutral coupling,

thermosphere-ionosphere coupling, magnetic storm effects.

LIST OF LECTURERS

M. Abdu (Instituto Nacional de Pesquisas Espaciais - INPE, Brazil)  
J. Forbes (University of Colorado, Boulder, USA)  
R. Garcia (National Center for Atmospheric Research, Boulder, USA)  
L. Gray (Rutherford-Appleton Laboratory, Didcot, UK)  
K. Hamilton (University of Hawaii, Honolulu, USA)  
T. Horinouchi (Kyoto University, Kyoto, Japan)  
E. Manzini (Max Planck Institute, Hamburg, Germany)  
M. Mendillo (Boston University, Boston, USA)  
I. Mueller-Wodarg (University College, London, UK)  
R. Sridharan (Vikram Sarabhai Space Center, Trivandrum, India)  
R. Vincent (University of Adelaide, Adelaide, Australia)

PARTICIPATION

Students and young scientists from all countries that are members of the UN, UNESCO or IAEA can attend the School. The main purpose of the Centre is to help researchers from developing countries through a programme of training activities within a framework of international co-operation. However, scientists from developed countries are strongly encouraged to apply. This course is specially meant for strongly motivated graduate students and young post-doctoral scientists. Some background in meteorology and/or aeronomy would be very desirable.

Limited funds are available for some applicants from developing countries, to be selected by the organizers. Every effort should be made by candidates to secure support for their fares (or at least half-fare) from their home country. Such financial support is available only to those attending the entire School. There is no registration fee for attending the School. The closing date for requesting participation is 31 May 2001.

Candidates should complete and sign the "Request for Participation" form to be found at the back of this Bulletin (also obtainable via e-mail: [smr1328@ictp.trieste.it](mailto:smr1328@ictp.trieste.it), by typing on the subject line "get announcement", or via the WWW server: <http://www.ictp.trieste.it/>), and return it within the deadlines indicated above to the following address:

the Abdus Salam International Centre for Theoretical Physics

"School on the Physics of the Equatorial Atmosphere"

# ICTP: smr1328/Announcement

(c/o Ms. Patrizia Passarella)

Strada Costiera 11

34014 Trieste, Italy

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

===== PLEASE DETACH HERE =====

NOTE: Better resolution if printed using Courier 10

## REQUEST FOR PARTICIPATION

SCHOOL ON THE PHYSICS OF THE EQUATORIAL ATMOSPHERE

24 SEPTEMBER - 5 OCTOBER 2001

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### INSTRUCTIONS

Each question must be answered clearly and completely. Type or print in ink. If more space is required, attach additional pages. This form should be forwarded to: the Abdus Salam International Centre for Theoretical Physics, School on the Physics of the Equatorial Atmosphere, (c/o Ms. Patrizia Passarella), Strada Costiera 11, 34014 Trieste, Italy, to arrive no later than 31 May 2001.

A recent photograph of the candidate should be attached, signed legibly on the reverse.

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.

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### P E R S O N A L   D A T A

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SURNAME/FAMILY Name:                      MAIDEN Name:                      First name:

For women only (if applicable)

Middle name(s):

Sex:

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IMPORTANT: PLEASE ALSO COMPLETE THIS SECTION, IF YOUR NAME(S) IN YOUR  
PASSPORT ARE SPELT DIFFERENTLY FROM THE ABOVE.

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

For women only (if applicable)

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Place of birth (City and Country):

Present nationality:

Date of birth (Year - Month - Day):

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Full address of permanent Institution:

Institute:      Tel. No.  
                    Telex/Cable  
                    Telefax  
Your Office:      Tel. No.  
                    Telefax  
                    E-mail: \*

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Full address of present Institution (if different from permanent):

Institute:      Tel. No.  
                    Telex/Cable

ICTP: smr1328/Announcement

Telefax

Your Office: Tel. No.

Telefax:

E-mail: \*

until: Date .....

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\* I agree that my e-mail address(es) may be made public on the ICTP  
WWW page:

YES

NO

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Home address:

Tel. No.

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Mailing address - please indicate whether: Permanent Present  
Home

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Name and address of person to notify in case of emergency -  
Relationship:

Tel. No.

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EDUCATION (higher degrees)

University or equivalent	Years attended		Degrees
Name and place	From	to	

Seminars, summer schools, conferences or research

Name and place

Year

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SCIENTIFIC EMPLOYMENT AND ACADEMIC RESPONSIBILITY

Research Institution or Univ.

Period of duty

Academic

Name and place

From to

responsibilities

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

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Have you participated in past ICTP activities? If yes, which? Yes  
No

Are you applying to any other 2001 ICTP activities? If yes, which? Yes  
No

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

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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.

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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

50. PHYSICS AND ENVIRONMENT

11. Solid State Physics

51. Solid Earth Geophysics

12. Atomic and Molecular Physics

52. Soil Physics

13. Materials Science

53. Climatology and Meteorology

14. Surfaces and Interfaces

54. Physics of the Oceans

15. Statistical Physics

55. Physics of Desertification

16. Computational Physics in Condensed

56. Physics of the Atmosphere,

Matter

Troposphere, Magnetosphere,

Aeronomy

57. Environmental Monitoring and

Remote Sensing

20. PHYSICS OF HIGH AND INTERMEDIATE ENERGIES

60. PHYSICS TEACHING

21. High Energy and Particle Physics

22. Relativity, Cosmology and Astrophysics.

61. English

23. Plasma Physics

62. French

24. Nuclear Physics

63. Spanish

64. Arabic

30. MATHEMATICS

80. MISCELLANEOUS

31. Applicable Mathematics, including:

81. Others

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Mathematical Ecology, Systems Analysis	82.Digital Communications
Mathematical Economy, Mathematics in Industry Networking	Computer
33. Algebra	
34. Geometry	90. PHYSICS OF THE LIVING STATE
35. Topology	91. Neurophysics
36. Differential Equations	92. Biophysics
37. Analysis	93. Medical Physics
38. Mathematical Physics	
40. PHYSICS AND ENERGY	AO. APPLIED PHYSICS
41. Physics of Nuclear Reactors	A1 Physics in Industry
42. Physics of Controlled Fusion	A2. Microelectronics
43. Non-Conventional Energy (Solar, Wind others)	A3. Fibre Optics for Communic.
	A4. Instrumentation
44. Nuclear Energy related technologies	A5. Synchrotron Radiation
	A6. Non-destructive Evaluation
	A7. Lasers
	AA. Applied Superconductivity
	B1. SPACE PHYSICS

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

1) Area of research: (e.g. METEOROLOGY, AERONOMY)

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(no more than 15 characters)

2) Specific topic of interest: (e.g. CLIMATE, WEATHER FORECASTING,

RADIO TRANSMISSION)

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(no more than 30 characters)

List your scientific publications including books and articles  
(authors, title, Journal) in the period 1995-2001:

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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,

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Indicate below your proficiency in the English language

Reading: Good	Writing: Good	Speaking: Good
Average	Average	Average
Poor	Poor	Poor

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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 choice only)

Full Travel + Subsistence	Subsistence only
Half Travel + Subsistence	No financial support requested

I certify that if granted funds for my travel, I shall attend the whole activity

.....

Signature

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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.

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Signature of applicant

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Date

===== END OF APPLICATION =====

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