







"Scientific thought is the common heritage of humankind."

Abdus Salam

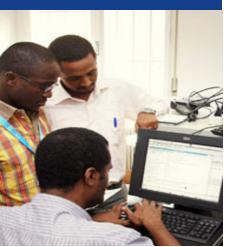
ICTP founder Abdus Salam

ICTP is an institution that is run by scientists for scientists to support the best science possible, with special attention paid to the needs of scientists from developing countries









ICTP mission

Conducting research at the highest international standards, ICTP's mission is:

➤To foster growth of advanced physics and mathematics studies, especially in developing countries

➤To develop high-level scientific programmes and encourage international scientific exchange

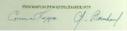
To provide excellent research and training facilities







VÄXELVERKAN MELLAN FLEMENTARPARTIKLAR NNEFATTANDE BLAND ANNAT FÖRUTSÅGELSEN V DEN SVAGA NEUTRALA STRÖMMEN





Quick facts

- Founded in 1964 by Nobel Laureate **Abdus Salam**
- Sponsored by tripartite agreement between Italy, UNESCO and IAEA
- Attracts visiting scientists mainly from developing and least developed countries
- Provides training to improve scientific capacity in developing countries



Africa



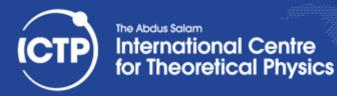


ICTP visiting scientists

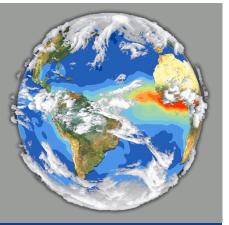
- More than 120,000 visits since 1970
- 184 countries represented
- > 20% of ICTP visiting scientists are women

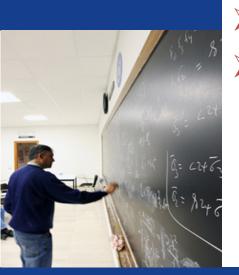












Research at ICTP

- High Energy, Cosmology and Astroparticle Physics
- Condensed Matter and Statistical Physics
- Mathematics
- Earth System Physics
- Applied Physics









Research at ICTP

- 35 staff scientists, 10 staff associates, 70 post docs and long-term visitors, 14 consultants
- Research support
 - ICTP Library holdings include 68,500 books, 320 journal subscriptions and 4,200 e-journals
 - State-of-the-art computer equipment and support
 - Publications and printing unit
 - Open access to e-journals, and digital lectures
 - African Review of Physics (Editorial and Technical Office)





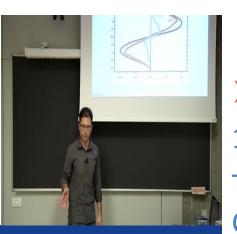


ICTP training and education

- Provides training and skills to scientists from developing countries
- Organises more than 60 conferences/workshops each year
- Welcomes 4,000 to 5,000 scientists from about 130 nations each year
- Attracts an additional 1,000-2,000 scientists/year through hosted activities





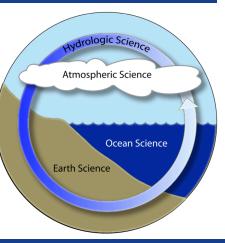


Programmes

Postgraduate Diploma Programme

1-year intense pre-PhD programme.

Two streams: `Physics of Solid Earth' and `Physics of Climate'



Students work on a research thesis with an ICTP supervisor.

Many of our students have been accepted for PhD in US and European Universities.











Adwoa ABOAGYE-OKYERE Univ. of Lille, France



Jacob TINDAN Univ. of Kansas, US

ESP Diploma Students from Ghana



Olivia AYIM Univ. dell'Aquila, Italy

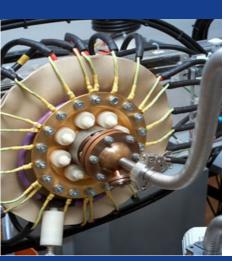


BAFFOUR Univ. of Hamburg, Germany









Sandwich Training Educational Programme (STEP)

fellowships to PhD students from developing countries in the fields of physics and mathematics.

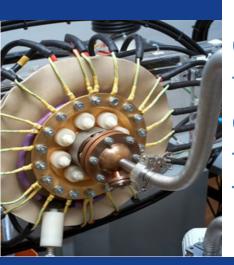
With a STEP fellowship, PhD students study at their home universities but have the financial support to visit ICTP for a three- to six-month stay each year for three successive years.

Fellows work on their PhD theses with their advisors at their home institutes and co-advisors at ICTP. Their PhD is awarded at their home institutes.









OFID Postgraduate Fellowship

ICTP and the OPEC Fund for International Development (OFID) have a joint programme offering fellowships and training opportunities to PhD students in developing countries. The OFID Postgraduate Fellowships supports 15 doctoral students from developing countries to access ICTP research/training facilities for up to six months per year for three consecutive years. Fellows will carry out research/ training towards their PhD within the Sandwich Training Educational Programme (STEP) scheme at CTP





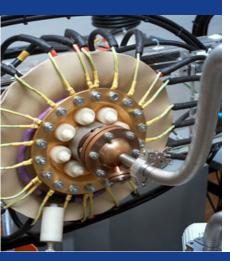


Joint PhD Programme, Earth Science and Fluid Mechanics with Trieste University

3-year PhD programme.

Courses in common with ICTP Diploma, Math. Dept, Engineering Dept.

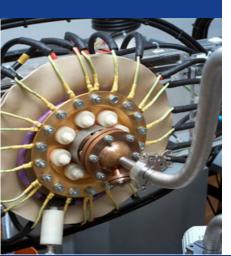
Funding comes from Trieste U., Italy, EU sources, ICTP. https://web.units.it/dottorato/esfm/











Master in High Performance Computing (MHPC) Lecturers from ICTP, SISSA, CINECA.

MHPC provides skills useful both in the academic and in the industrial field, like technical and software development.

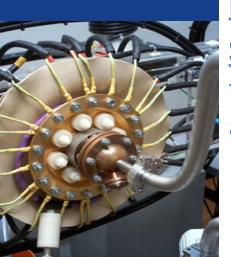
The program combines lectures with hands-on and applied projects to prepare future HPC specialists for academia and industry.

http://www.mhpc.it/









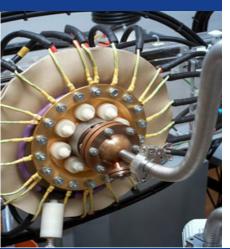
Associate Schemes

Junior: promising young scientists up to the age of 35. 6-year appointment, during which associate visits ICTP three times for stays of between 30 and 60 days each. **Regular:** Scientists aged between 36 and 45. **Senior:** intended for scientists, over the age of 45, from and working in developing countries. 6-year appointment; unlimited visits of up to 60 days each.









Training and Research in Italian Laboratories (TRIL)

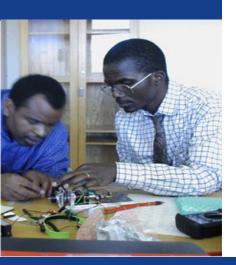
The TRIL Programme offers scientists from developing countries the opportunity to undertake training and research in an Italian laboratory in different branches of the physical sciences.

Since 1983, **1328** scientists from developing countries have taken advantage of opportunities to participate in high level research in active Italian teams.









Scientific outreach

Office of External Activities

- Supports external scientific activities
 - Affiliated centres
 - Networks
 - Visiting Scholars/Consultants
 - Scientific Meetings
 - Projects



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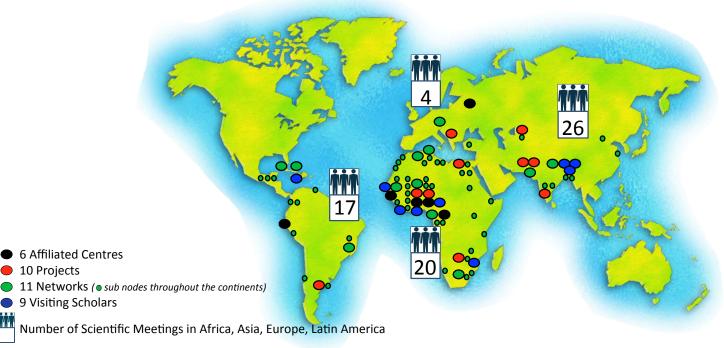


esearch in Developing Count Toure, Director ITU/BDT, Geneva Switzerland es for ICT: Projects that



Scientific outreach

Spotlight: Office of External Activities in 2015







Some Workshops/Meetings of interest

- 2019 School on Oceanic Eastern Boundary Upwelling Systems
- 2019 2nd ICTP Summer School on 'Theory, Mechanisms and Hierarchical Modelling of Climate Dynamics: Convective organization and climate sensitivity'
- 2018 1st ICTP Summer School on 'Theory, Mechanisms and Hierarchical Modelling of Climate Dynamics: Multiple Equilibria in the Climate System'
- 2018 Coastal Ocean Environment Summer School
- 2017 Workshop on 'The science of climate change: a focus on Central America and the Caribbean'
- 2016 School on 'Ocean Climate Modelling: Physical and biogeochemical dynamics of semi-enclosed seas'

<u>Please do apply here</u>: https://www.ictp.it/scientific-calendar.aspx





... and it is also a nice place to visit!

