



# IOP: International Programme – Physics for Development

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***Nanotechnology: Making the Leap towards Commercialisation, India***

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## Background

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World Conference on Physics & Sustainable Development  
in Durban (2005), organised by the IUPAP\*  
(International Union for Pure and Applied Physics)

- Physics Education
- **Physics & Economic Development** (*Lead by the IOP*)
- Energy & Environment
- Physics & Health

\* [www.iupap.org](http://www.iupap.org)

## Aims

- To promote and support physics in furthering scientific knowledge and providing economic and social benefits



## Donating and Distributing Physics Apparatus and Providing Teacher Training in Rwanda

- **Rwanda physics teacher initiative (which has provided laboratory equipment and training) - 2nd year of support now running, have committed to a further year and are looking at rolling the project out to other countries**





## Physics Education

- **Lab in a lorry**
  - **South Africa - Durban**
  - **Angola**



- **Mobilesience.info: the international mobile science community web site for those involved in mobile science around the world.**

**[www.mobilesience.info/forum](http://www.mobilesience.info/forum)**

## Workshop Programme

### ‘Economic Development for Physicist from Developing Countries’ 27 Nov – 1 Dec 2006

*Held at - Trieste, Italy*

In association with - Abdus Sallam International Centre for Theoretical Physics (ICTP)

Supported by - European Physical Society (EPS) and International Union for Pure and Applied Physics (IUPAP)



### Workshop Topics

- intellectual property (IP)
- patenting, copyright, licence
- start-up, spin-out
- legal issues
- funding (venture capital (VC) route, public sector)
- case studies
- group discussions



## Follow-on support

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- The IOP launched an online discussion forum for delegates to provide them with a platform to
  - network
  - share their knowledge and information
  - receive an online educational material and courses to develop their business skills
  - receive an advice from the speakers who are expert in their field of commercialisation

[EDPDC@networks.iop.org](mailto:EDPDC@networks.iop.org)
- The Institute also offered to set up a facility for delegates who wish to conduct online meetings/seminars
- Once established, there is a plan to move the workshop around in different developing countries every year
- Next workshop is planned for March 2008



# Entrepreneurship for Physicists and Engineers from Developing Countries **17–21 March 2008**



This one-week residential workshop entitled *Economic Development for Physicists in Developing Countries* is ideal for physicists and engineers in developing countries who would like to learn entrepreneurial and commercialisation skills.

Development of entrepreneurial skills and attitudes now forms a vital part of IUPAP's education programme. The workshop aims to foster the culture of enterprise to help physicists and engineers to make positive contributions to their countries' economy.

Vital aspects of the workshop include:

- spotting opportunities • identifying market need
- protecting intellectual property • patenting
- licensing • recognising the need for confidentiality

- understanding legal issues • bringing developments to market
- raising capital • obtaining funding
- taking the venture capitalist route • understanding incubation

The workshop also provides delegates with opportunities to engage with successful role models who are expert in their field, and to discuss real-life issues, barriers and challenges. Case-studies discussed during the workshop will help to promote understanding of the issues involved and to identify best practice.

Various transferable skills, like negotiation and interpersonal communication, can be learned from the group activities and networking.

To apply online, visit <http://users.icpt.ilt.smr1996/>.