



Cadi Ayyad University

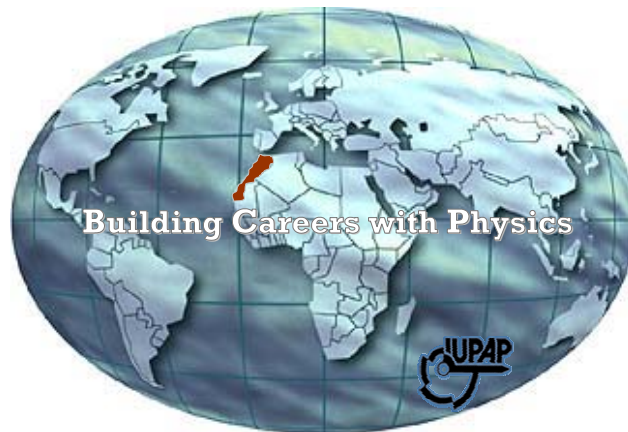
الجمعية التونسية للبصريات



Tunisian Society of Optics

International Conference on Physics Education ICPE2007
Building Careers with Physics

November 11-16, 2007 Marrakech Morocco



1st
Announcement

The Cadi Ayyad University of Marrakech (UCAM) and the Tunisian Society of Optics (STO) will host the International Conference on Physics Education ICPE2007: Building Careers with Physics-in collaboration with International Commission on Physics Education of International Union of Pure and Applied Physics (IUPAP/ICPE). The conference will be held in Marrakech, Morocco in November 11-16, 2007.

Context:

In most countries, particularly in developing ones, physics teaching, methods and concepts, need to be further developed, given the rapid advances in this field. Its role in career building, and in providing new job opportunities and as a locomotive for economic development needs to be strengthened.

In as much as teaching of physics is of concern to the entire community of physicists, there is an urgent need to communicate and effectively use the new techniques and strategies developed by physics education research (Effective teaching and evaluation methods, Hands-on Labs, Learning studios, ILDs, Active Learning, etc...). Furthermore, the full potential of the internet as an instrument for linking communities of physics educators and publication of widely accessible resource materials still remains largely unexploited. It is imperative that major efforts be devoted to bridge the gap between the domain experts, teachers, education researchers and the policy makers. This will have major positive implications especially in developing countries where the integration of these new technologies in teaching (in particular physics) is just blossoming.

Given the significant success that the previous conferences (Delhi, Tokyo) of the ICPE have enjoyed, we strongly feel that this edition will be a strong impetus to introduce new curricula and teaching methods in Morocco as well as in other countries where educational reforms have been (or will be) undertaken.

Objectives:

The ICPE2007 is the first IUPAP-supported international conference on physics education in North Africa. The main objective of ICPE2007 is to provide an opportunity to exchange ideas and experiences about Building Career with Physics, and to discuss the potentialities which the physical sciences offer in curricula development, and their impact on enriching the professional skills of the graduates. This conference will bring together physicists, physics educators, physics education researchers and curriculum developers from around the World to share and debate their findings and experiences in the teaching-learning process in Physics, in general, and in career-oriented curricula and Educational Reforms in particular.

Themes:

The conference aims at comprehensively presenting issues and examples of praxis that highlight the following themes:

A- New Job Opportunities

- A1.** Physics in interdisciplinary contexts;
- A2.** Applications of physics;
- A3.** Modern-day scientific instrumentation;
- A4.** Physics and entrepreneurship.

B- Effective Teaching Strategies

- B1.** Motivating students to learn physics;
- B2.** Activity-based learning;
- B3.** Learning through open-ended projects;

- B4. Problem-based learning;
- B5. Learning in real-world contexts.

C- Learning with Technology

- C1. Role of ICT;
- C2. Computer-based experiments;
- C3. E-learning resources;
- C4. Distance education;

D- Physics for Sustainable Development

- D1. Learning in cultural contexts;
- D2. Low-cost locally-produced resources;
- D3. Case-studies from developing countries;
- D4. Building academics-activity networks.

E- Bridging the Gaps

- E1. Bridging the gap between schools, colleges and universities;
- E2. Industry-academia interaction;
- E3. Building competences for the work place;
- E4. Public understanding sciences.

F- Women and Girls in Physics

The meeting is open to scientists regardless of nationality and citizenship. Given the importance of the conference and the role of the thematic for the development of our country, particularly with the engagement of Morocco, the Maghreb countries, as well as other countries in educational reforms, we would like that the conference will be organized under the “High Patronage” of His Majesty King Mohamed VI.

Chairs

Eugene Arthurs, Executive Director of SPIE, USA
Alan Astbury, President of the International Union of Pure and Applied Physics, Canada
Ari Friberg, President of the International Commission for Optics, Sweden
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Co-Chairs

Minella Alarcon, Programme Officer for Basic Sciences, UNESCO
Zohra Ben Lakhdar, President of the Tunisian Society of Optics, Tunisia
Jolly Pratibha, Chair of the International Commission on Physics Education, IUPAP

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The Minister of the National Education, Scientific Research and Training, Rabat
The Perpetual Secretary of Hassan II Academy of Sciences, Rabat
The Director of the National Centre of Scientific and Technique Research, Rabat
The President of the Cadi Ayyad University, Marrakech
The President of Mohamed V Souissi University, Rabat

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Nejwa Derbel, STO Tunisia	Souad Lahmar, STO Tunisia
Zoubeida Dhaouadi, STO Tunisia	Rym Miled, STO Tunisia

General Secretariat

A. Brakez, FSSM	R. Channa, FSSM	A. Outzourhit, FSSM
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ICPE2007 Coordinator

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Conference format

The design of the conference would be such as to present the conference themes as follow:

- **Invited Plenary Lectures**; these would offer an overview of the five conference themes.
- **Invited Workshops**; these would provide an in-depth presentation of innovative strategies and resource materials, hands-on exposure, and an opportunity for evaluation and discussion.
- **Contributed Papers**; presented in parallel sessions, these would elaborate the various conference themes.
- **Contributed Posters**; presented in parallel sessions, these would provide an opportunity to the participants to present their work in a more informal manner with personalized interaction with other participants.
- **Panel Discussions**; these would provide a forum for brain-storming on issues that would impact the conference recommendations.
- **Invited Stage Science Shows**; these would aim at presenting physics demonstrations, experiments and learning as a joyful activity that generates enthusiasm towards physics in a large audiences.
- **Invited Public Lectures**; these would be directed at a diverse audience drawn from the general public and attempt to enhance public understanding of physics.

Information

- Conference venue

Palais des Congrès, Marrakech, Morocco

- Important dates

<i>Abstract submission</i>	<i>October 15, 2006 - April 30, 2007</i>
<i>Last day for early registration</i>	<i>July 15, 2007</i>
<i>Second announcement and program</i>	<i>September 20, 2007</i>
<i>ICPE2007 Marrakech</i>	<i>November 11-16, 2007</i>
<i>Proceedings manuscripts</i>	<i>December 30, 2007</i>

- Registration and ICPE2007 Website (Online after October 15, 2006)

ICPE2007 Marrakech is a participant-supported conference. Attendees are expected to secure funds for travel expenses and conference fees. The organizers will be happy to send a special letter of invitation to registered participants upon request, to help in obtaining funds from their institution. However, limited funds will be available for some participants from developing countries who project to attend the ICPE2007. Application forms for requesting financial support can be downloaded from the conference website.

The registration for the conference can be done online after October 15, 2006 on:

<http://www.ucam.ac.ma/icpe2007>

We encourage all participants to register as early as possible. The registration fee is 300 USD and includes:

- *Welcome refreshments,*
- *Conference documents,*
- *One copy of the conference proceedings in a CD-ROM,*
- *Lunches,*
- *Coffee breaks,*
- *Banquet,*
- *Social events.*

- Accommodation

The accommodation for ICPE2007 participants will be at the hotels in Marrakech listed on the website. Special tariffs were negotiated for the ICPE2007 guests. Reservation will be processed on receipt of the application form and payment. Hotel reservation is also available through PAMPA Voyage, Operator Tour Agency at the address below:



219, boulevard Mohamed V, Galerie Jassim – 40000 Marrakech – MAROC
Téléphone + 212 (0) 24 43 10 52 – Télécopie +212 24 44 64 55 et 24 43 87 31
<http://www.pampa.ma> or <http://www.pampa-voyage-maroc>
E-mail: pampa@menara.ma

Earlier arrivals and longer stays can also be arranged through PAMPA Voyage.

- Conference language

English will be the official language of the conference but French is also accepted for the presentations at the ICPE2007.

- Instructions for abstract submission



Contributions should be submitted following the format guidelines given on the conference website. The deadline for submitting papers is April 30.

- Organizers and contacts

The Cadi Ayyad University Marrakech (UCAM) & The Tunisian Society of Optics (STO) are the organizers of the ICPE2007- in collaboration with International Commission on Physics Education of International Union of Pure and Applied Physics (IUPAP/ICPE).

For any questions regarding papers, posters, and symposia please contact the Organizing Secretary at:

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E-MAIL

Marrakech, the conference venue, is located in the south-central part of the country, 40 km way from the majestic and picturesque high Atlas Mountains. Marrakech offers a rich historical and cultural heritage. The Jamaa elfna Place is unique in its charm and is a melting pot of centuries-old cultural heritage and open-air gastronomy. Not far away, in the amazing Souks (ancient markets), the artistically and skilfully made handcrafts will definitely stimulate those shopping instincts in the most conservative shoppers...The old-city ramparts, the Koutoubia Minaret majestically standing in the heart of the city, the widespread wonderful historical monuments, gardens and basins will definitely leap you back in the greatest times that this city has enjoyed.



The city offers quality hotels and is one of the most attractive, convenient and unforgettable conference venues. In autumn season, the moderate climate, the snow-cover High Atlas Mountain peaks, the palm trees, the magic colors of the sun light, the fresh air all combine to make of Marrakech a unique art-gallery. No wonder Moroccan people named Marrakech the city of “Joy” (Albahja in Arabic). We look forward to welcoming you in Marrakech the Pearle of the South to discover its secrets and charm.

