

SPIE



Student Chapter

Engineering School of
Communication of Tunis

SPIE Activities Report 2012/2013



Engineering School of Communication of Tunis (Sup'Com)

OPTICS & PHOTONICS TUNISIA STUDENT CHAPTER



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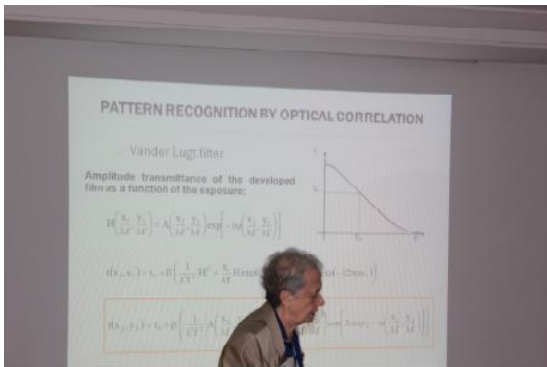
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Activity 1: Get Ahead with Optics Summer School

02-12 September 2012: The Summer School took place at Hammamet-Yasmine, Tunisia from 2.-12. September 2012.

The interdisciplinary program was targeted towards female science graduate students from Tunisia and Germany. Its content and structure were designed to provide them with professional skills and help them succeed in the dynamic and rapidly evolving field of optics and photonics. The ten day summer school in optics was a partnership between the University of Carthage's Engineering School of Communications, Tunisia and Philipps-University Marburg, Germany.



Professor Maria Yzuel giving a scientific seminar during the "Get ahead with optics" summer school



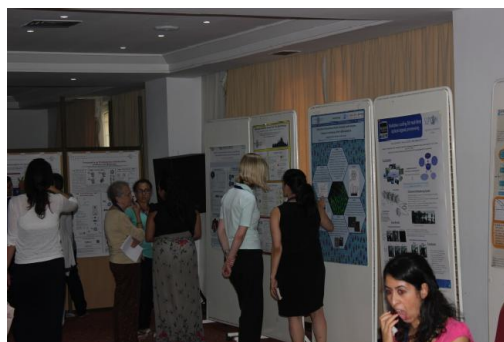
Students attending the lecture



Group Photo



From left to right: M. Calvo, R. Cherif, Z. Ben Lakhdar, M. Yzuel



Poster session

Activity 2: Advancing Careers for Women in Science

11 – 12 March 2013: Organization of the COACH workshop for Advancing Careers for Women in Science.

The workshop was animated by professors :

Prof. NORA Berrah (Physics Dep., Western Michigan Univ., USA), and

Prof. GERALDINE Richmond (Chemistry Dep., Univ.of Oregon, USA).

It took place on March, 11th and 12th, 2013 at the salle polyvalente of the Faculty of Sciences of Tunis (FST), Tunis.

The scope of the workshop is to:

- Publishing Research Results in Peer Reviewed Journals
- Career Launch and Acceleration: Making the Most of Those First Years
- The Art of Effective Proposal Writing
- Effective Leadership Skills for Women

iCOACH project leaders:

Prof. Geri Richmond, University of Oregon

Prof. Nora Berrah, Western Michigan University



Prof. Nora Berrah is giving a lecture on Career Launch and Acceleration



Students attending the lecture



Discussion

Activity 3: Development of the OPTSC website

<http://tunisia-optics.org>

Activity 4: Optics Suitcase Activity

17 May 2013: Optics Suitcase Activity in the Secondary school of Hammamet, Tunisia



Rainbow PeepHole



Rainbow Glasses



Magic Patch



Magic Stripes



Slinky



heat patch



Silica Lens



Happy – Unhappy Balls



Group Photo

About 30 secondary school students were too excited and motivated, they were attentive to the demonstrations and asking about explanations, we were supported by 3 of their secondary teachers for kit demonstration.

Future Activities 2013-2014

Based on our educational and scientific environment founded in a Telecommunication Engineering School (Sup'Com), we decide to organize one day presentation and demonstration of our student chapter to the new telecommunication engineer students who do not really feel the great need and interest of optics and photonics in their lives.

We will set booth at the entrance of Sup'Com and explain to them what is optics, the student chapter missions and the interesting role of such science "Optics & Photonics" to make life easier and achieve advances, especially in the context of a Telecommunication world combined with all optical sources.

We are planning also to visit the companies "Tunisiana" and "Alcatel Lucent" with engineering students at the higher school of communication to discover and learn about their facilities and optical equipment used in telecommunication.

The objectives of our future activities are to:

- Make engineering students feel the interest of optics and photonics in the telecommunications field.
- Demonstrate some experimental setups using lasers and fibers.
- Show the huge need to increase the bit-rate up to hundreds of Gb/s to satisfy all the customer demands of fast downloads; video on demand, high quality videoconference ... This can be achieved if only data are transmitted through an optical fiber !!
- Show the importance of all-optical sources and the need to merge from electronic to all-optical systems to reduce the system complexity and the budget expenses.
- Enlarge our student chapter members and make new member recruitments.

Our Engineering School (Sup'Com) will, as usual, support and sponsor our activities by giving facilities for advertising, preparing brochures and contacting professional participants that we would like to invite.