

Young Researchers Career Development Workshop: bridging a gap between education & career in electromagnetics and photonics

June 26, 2006

V. Karazin Kharkov National University, Ukraine
in the frame of Electromagnetics and Photonics Week

organized by:

V. Karazin Kharkov National University OSA Student Chapter
Institute of Radiophysics & Electronics Young Scientists Council

sponsored by:

V. Karazin Kharkov National University OSA Student Chapter
Abdus Salam International Centre for Theoretical Physics (ICTP)
The International Society for Optical Engineering (SPIE)



Young Researchers Career Development Workshop (YRCDW) was held as a satellite meeting to the Electromagnetics and Photonics Week in Kharkov, Ukraine, on June 26, 2006. The event was organized by V. Karazin Kharkov National University (KNU) OSA Student Chapter and the Institute of Radiophysics & Electronics Young Scientists Council (IRE YSC) in cooperation with several other Ukrainian and overseas student chapters of international professional societies:



V. Karazin Kharkov National University OSA
Student Chapter (Kharkov, Ukraine)



Taras Shevchenko National
University of Kyiv OSA & SPIE
Student Chapters (Kyiv, Ukraine)



IEEE LEOS Student Branch
Chapter (KhNURE, Kharkov,
Ukraine)



Young Scientists Council
(Institute of Radiophysics &
Electronics NASU, Kharkov, Ukraine)



Norfolk State University OSA
Student Chapter (Norfolk,
Virginia, USA)



Taurida National V. Vernadsky
University OSA & SPIE Student
Chapters (Simferopol, Ukraine)



Australian National
University OSA Student
Chapter (Canberra,
Australia)

YRCDW was a day-long event focusing on helping students who are in the early stages of their academic careers in electromagnetics and photonics. The workshop attracted more than 30 participants from all around Ukraine as well as from Russia and Belarus, most of them graduate or Ph.D. students. The workshop was convened by Dr. Svetlana V. Boriskina, the Faculty advisor of the KNU OSA Student Chapter and Dr. Artem V. Boriskin, the President of IRE YSC.

The workshop consisted of four related components, including:

- (i) tutorials presented by Prof. Sergei Tretyakov from Helsinki University of Technology (Finland) and by Dr. Vladimir Gavrilenko from Norfolk State University (USA), as well as demonstration of educational movies: “Optical catastrophes” and “Vortices in nature and technology” presented by the OSA&SPIE Student Chapters of Taurida National V. Vernadsky University (Ukraine);
- (ii) interactive career development seminars presented by the workshop organizers;
- (iii) roundtable discussions and poster presentations of participating Student Chapters showcasing their programs and activities;
- (iv) student paper contest.



Members of the participating Student Chapters from Kharkov, Kiev and Simferopol during coffee-break.



Workshop participants during the lectures.

The workshop has also become a social phenomenon that helped participants to get to know each other, network with their peers and mentors and share ideas. For many of the participants, the Electromagnetics and Photonics Week was their first international conference. The organizers hope that the workshop preceding it helped them not only to better integrate themselves into the main event but also to start their own social network and to gain useful insights in their future career opportunities.

The winner of the **Student Paper Contest**, Mr. Maxim Nesterov (Institute of Radiophysics & Electronics NASU, Kharkov, Ukraine) was awarded with a travel grant to attend the 2007 ICTP Winter College on Optics, which will be focused on Fiber Lasers and Advances on Fiber Optics.



Prof. Tretyakov is teaching tutorial “Advances and Challenges in Metamaterials Research”.



Dr. Gavrilenko presents OSA Traveling Lecturer Seminar “Linear and nonlinear optics of photonic materials”.



Dr. Boriskina is talking about international education resources & fellowship opportunities



Dr. Boriskin is giving an overview of Ukrainian national and regional sources of support for young researchers

**VI Kharkov Young Scientists Conference
“Radio Physics and Microwave Electronics”**

13-15 December 2006, Kharkov, Ukraine
<http://www.ire.kharkov.ua/ysc>

**7th International Young Scientists Conference
“Optics & High Technology Material Science”**

26-29 October 2006, Kyiv, Ukraine
<http://www.spie.kiev.ua/spo>