

CURRICULUM VITAE

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Junior researcher, Student Member IEEE/LEOS

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EDUCATION

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| 2007 | Junior researcher at the Kharkiv National University of Radio Electronics. |
| 2004-2007 | PhD student at the Kharkiv National University of Radio Electronics. Doctoral thesis title is “Passive fiber-optical components based on the photonic crystal” |
| 2003-2004 | Scientific researcher at the Kharkiv National University of Radio Electronics. Scientific research title is “Passive fiber-optical components based on the photonic crystal” |
| 1998-2003 | Student at the Electronic Technique Faculty in the Kharkiv National University of Radio Electronics, Kharkov, Ukraine. Graduated from the Kharkiv National University of Radio Electronics as electronics engineer in the area of lasers and optoelectronic techniques (B. S. (2002) and M. S. (2003)). |

MASTER OF SCIENCES THESIS

Title: **“Fiber-optical components based on the photonic crystals”**

- Effective refractive index model of photonic crystal cladding region of the holey fiber;
- Theoretical numerical model of the wave confinement effects in the holey fiber;
- Investigation of the mode transformation along of the holey fiber.

PROFESSIONAL ACTIVITY:

Theory of the photonic crystals and optical elements based on the photonic crystal like photonic crystal waveguides (planar waveguides). Modeling and optimization of the photonic crystal waveguides. Investigation of the transmission, losses and the mode transformation in these components.

GRANTS

- Grant of the IEEE Lasers and Electro-Optics Society Student Project Program 2002.
- Grant of the 56th Scottish University Summer School in Physics “Ultrafast Photonics”, School of Physics and Astronomy, University of St. Andrews, Scotland, 1-14 September 2002.
- Grant of the International School of Quantum Electronics Summer Course “Microresonators as building blocks for VLSI photonics”, Erice, Italy, October 18th-25th 2003.
- Finland summer school
- PhD Fellowship of the International Association for the promotion of cooperation with scientists from the New Independent States of the former Soviet Union - INTAS Ref. Nr 04-83-3066 (“PASSIVE FIBER-OPTICAL ELEMENTS BASED ON PHOTONIC CRYSTALS (PhCs)”)

AWARDS

Student Travel Contingency Award of The International Society for Optical to the Photonics Europe Conference, Strasbourg, France, 26-30 April, 2004.

PROBATIONS

2 times probation in the University of Glasgow, Glasgow, Scotland, UK during 2005-2007 with total duration about 8 months according to the INTAS project Ref. Nr 04-83-3066.

MEMBERSHIP

IEEE - The Institute of Electrical and Electronic Engineers (USA)

LEOS – Laser and Electro-Optical Society

SPIE – The International Society for Optical Engineering

Team-member of the Student Project 2002-2003 “**Interactive teaching software suite for the basic photonics components studying**”

Staff Member of the Joint Organizing Committee IEEE-LEOS International Conference on Advanced Optoelectronics and Lasers, CAOL (Ukraine-2003, 2006)

PUBLICATIONS

Complete publication list includes **14** scientific works, among them:

3 paper in journal in Russian;

4 paper in journal in English;

4 conference publications in Russian;

8 conference publications in English;

1 summer school publication in English.

LANGUAGES

Russian, Ukrainian, English

PERSONAL

Date of birth: 20 May 1981, not married, good health.

Date 27 March 2007