

**Asia-Pacific Conferences
on Fundamental Problems of
Opto- and Micro-electronics**

August 21-25, 2012

*Dalian University of Technology,
Dalian, P.R. China*

PROGRAM



N S F C
National Natural Science Foundation of China
(NSFC)



Dalian University of Technology, China
Key Lab of Advanced Optoelectronics of
Liaoning Province, China
Key Lab of Safety monitoring and control of
civil infrastructures of Liaoning Province, China

◆ **Honorable chairmen**

Oleg N. Krokhin

P.N. Lebedev Physical Institute of the Russian Academy of Science, Russia
Member of the Russian Academy of Science, Russia

◆ **Chairmen**

Prof. Jinping Ou

President of Dalian University of Technology (DUT)
Member of the Chinese Academy of Engineering, China

Prof. Yu. N. Kulchin

Vice-President of Far-Eastern Branch of the Russian Academy of Science, Russia
Member of the Russian Academy of Science, Russia

◆ **Members**

V.Ya. Panchenko, The Institute on Laser and Information Technologies of the Russian Academy of Science, Russia

A.N. Malov, Irkutsk State University, Russia

Alen Kost, University of Arizona, USA.

S.M. Shandarov, State University of Control Systems and Radio electronics, Russia

S.N. Bagaev, Institute of Laser Physics of the Siberian Branch of the Russian Academy of Science, Russia

X.D. Sun, Harbin Institute of Technology, China

T. Shimizu, K okushikan University, Japan

S. Heihachi., National Defense Academy, Japan

I. Yamaguchi, Institute of Physical and Chemical Research, Japan

K. Tanaka, Canon Inc., Japan

S. Tanaka, National Defense Academy, Japan

J.H. Han, Kangham University, Korea

S. Cho, Kangnam University, Korea

A.A. Kamshilin, University of Eastern Finland, Finland

B. Lee, Gwangju Institute of Science and Technology, Korea

S. Shon, Suwon University, Korea

O.B. Vitrik, Far Eastern Federal University, Russia

M.S.Zhao, Dalian University of Technology, China

Hai. Xiao, Missouri University of Science and Technology, USA.

C. Sun, Dalian University of Technology, China

J.Li, Harbin Institute of Technology, China

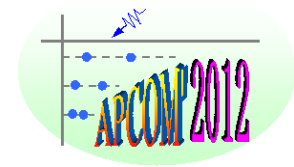
G. LV, Heilongjiang, University of Technology, China

V.V.Krishtop, Far Eastern State Transport University, Russia

Zhi. Zhou, Dalian University of Technology, China

APCOM'2012 will focus on the following subjects (but not limited):

- Optical information processing techniques
- Fiber optical communication and measuring systems
- Nonlinear optoelectronics systems
- New materials and structures for photonics
- Optoelectronic methods for medicine
- Optical sensors
- Structural health monitoring



| August 22 (Wed.) | |
|---|--|
| New materials and structures for photonics | |
| Time | Schedule |
| 9.00-9.20 | <p>Enhancement of optical nonlinearity in β-AgVO₃ nanobelts by incorporation of Ag nanoparticles</p> <p><i>Bing Yang, Zhengxi Li</i></p> <p><i>North China University of Technology</i></p> |
| 9.20-9.40 | <p>Nonlinear refraction and absorption of low-intensity radiation in the SiO₂ nanosystem</p> <p><i>Valentin A. Milichko, Vladimir P. Dzyuba, Yurii N. Kulchin</i></p> <p><i>Institution of Russian Academy of Sciences, Institute of Automation and Control Processes FEB RAS,</i></p> <p><i>Far Eastern Federal University</i></p> |
| 9.40-10.00 | <p><i>Investigation of Deposition Process in Dynamics Using Optical Non-contact Method with Spatial Averaging of Data</i></p> <p>Yuriy N. Kulchin, Oleg B. Vitrik and Nataliya P. Kraeva</p> <p><i>Institution of Russian Academy of Sciences, Institute of Automation and Control Processes FEB RAS,</i></p> <p><i>Far Eastern Federal University</i></p> |
| 10.20-10.40 | <p>Photonics of dielectric nanosystem</p> <p><i>Yurii N. Kulchin, Vladimir P. Dzyuba, Valentin A. Milichko</i></p> <p><i>Institution of Russian Academy of Sciences, Institute of Automation and Control Processes FEB RAS,</i></p> <p><i>Far Eastern Federal University</i></p> |

10.40-11.00

Breaktime