



NATO Advanced Study Institute
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Sensors for Environment, Health and Security: Advanced Materials and Technologies

16-27 September 2007
VICHY (France)



Director from NATO Country:
Marie-Isabelle BARATON
Univ. Limoges and CNRS (France)

Director from Partner Country:
Pavel K. KASHKAROV
Moscow State Lomonosov Univ. (Russia)

<http://www.nato.int/science>

This Advanced Study Institute aims at providing young researchers with the most recent knowledge in sensing materials and sensor technologies. It will cover a wide range of materials and technologies encompassing semiconductors, self-assembled and biologically inspired nanomaterials, and photonic microsystems for the detection of various threats (air pollution, bio-agent detection, nuclear detection) in applications spanning from environmental and health monitoring to security.

Round-tables will be arranged to allow for ample discussions in order to identify common problems and help researchers to find synergistic approaches by eventually crossing the traditional boundaries between disciplines.

In addition to the main lectures, other related topics will be addressed such as industrial requirements for the next generations of sensors, market analysis to better target the forthcoming research efforts, brief overview of the legislations in different countries in terms of maximum authorized contamination levels in air, water, soil, and food.

Participation of official representatives of the European Commission and the National Science Foundation (USA) is envisaged to provide all participants with the necessary administrative and financial information on students exchange programs and collaborative international research projects.

Organizing Committee:

M.-I. BARATON, Univ. Limoges (France)
P.K. KASHKAROV, Lomonosov Univ. (Russia)
S. SEAL, Univ. Central Florida (USA)
A. VASEASHTA, Marshall Univ. (USA)



Invited Lecturers:

Marie-Isabelle BARATON
SPCTS CNRS, Univ. Limoges (France)

Alexander M. GASKOV
Moscow State M. V. Lomonosov Univ. (Russia)

James E. HARDY
Oak Ridge National Laboratory (USA)

Sergei IGNATOV
State Research Center Obolensk (Russia)

Arkady A. KARYAKIN
Moscow State M. V. Lomonosov Univ. (Russia)

Pavel K. KASHKAROV
Moscow State M. V. Lomonosov Univ. (Russia)

George KIRIAKIDIS
Univ. Heraklion and FORTH (Greece)

Wim LAUREYN
IMEC (Belgium)

Pedro MEDELIUS
ASRC Aerospace Corp., KSC (USA)

Andrew MILLS
Univ. Strathclyde (UK)

Sudipta SEAL
Univ. Central Florida (USA)

Victor TIMOSHENKO
Moscow State M. V. Lomonosov Univ. (Russia)

Ashok VASEASHTA
Marshall Univ. (USA)

Alexey VASIL'EV
RSC Kurchatov Institute (Russia)

Yu. VLASOV
St. Petersburg Univ. (Russia)



Important Dates:

- ⇒ Abstract submission deadline:
15 March 2007
- ⇒ Notification of acceptance:
1 May 2007
- ⇒ Registration deadline:
15 May 2007
- ⇒ NATO-ASI:
16-27 September 2007



Conditions of Participation:

- ⇒ Participation to NATO-ASI is by invitation only. Scientists wishing to attend should apply to the Co-directors of the ASI
- ⇒ Participation to NATO-ASI is not subjected to registration fees
- ⇒ Participants are required to attend the ASI for its full duration (11 working days)
- ⇒ Selected contributions will be accepted for oral or poster presentations

Contacts:

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About Vichy:

<http://www.ville-vichy.fr>

Additional Events:

- ⇒ Round-table discussion on international collaborative research programs and students exchange programs with the participation of **Carmen HUBER, NSF (USA)**
Representative(s) of the *European Commission*
- ⇒ Round-table discussion on industrial needs and emerging markets with the participation of representatives of the sensor industry
- ⇒ Poster sessions
- ⇒ Industrial exhibition



Meeting Venue:

Palais des Congrès-Opéra, Vichy (France)

Aletti Palace Hotel, Vichy (France)

<http://www.ville-vichy.com/en/congres/>

Accommodation:

Aletti Palace Hotel, Vichy (France)