## IARP Member and Observer Countries

| | |
|---|---|
| **Australia** | *Hugh Durrant-Whyte* |
| **Austria** | *P. Kopacek* |
| **Belgium** | *Y. Baudoin* |
| | *H. Bruyninckx,* |
| | *P. Dehombreux* |
| **Brazil** | *Liu Hsu* |
| **Canada** | *E. Dupuis* |
| **China, P.R** | *Qiang Huang* |
| **European Commission** (Observer) | *P. Karp* |
| | *Wolfgang Boch* |
| **France** | *Philippe Bidaud* |
| | *Etienne Dombre* |
| **Germany** | *R. Dillmann* |
| **Italy** | *C. Moriconi* |
| **Japan** | *Kazuhito Yokoi* |
| **Korea** | *Mun-Sang Kim* |
| **Poland** | *A. Maslowski* |
| **Russia** | *V. Gradetsky* |
| **Spain** | *M. Armada* |
| **United Kingdom** | *G. Pegman* |
| **USA** | *Michael M. Reischman* |

## IARP Executive Committee

| | |
|---|---|
| **President** | *N. Caplan* |
| **Vice-President** | *G. Pegman* |
| **Executive Secretary** | *G. Giralt* |
| **JCF 2011 Chair** | *Philippe Bidaut* |

## Time Schedule for Paper Submission

The contribution should focus on theories, principles and developments which have been explicitly developed for (terrestrial, aerial ) robots , and carried sensor systems for environmental surveillance, risky interventions (safety, rescue, humanitarian de-mining , a.o.)

An abstract (approximately 300 words in English) should be received not later than ***31. March 2011***. Electronic submissions of the abstracts (Word, PS-format, PDF-files) should be mailed to:

yvan.baudoin@rma.ac.be
frank.schneider@fkie.fraunhofer.de

- Deadline for abstracts: 31. March 2011
- Selection of abstracts: 30. April 2011
- Receipt of full papers: 20. May 2011

## Local Organization Committee

Workshop inquiries to:

Workshop '*Risky Interventions and Environmental Surveillance RISE 2010*

Yvan Baudoin
Royal Military Academy
30 Av de la Renaissance
B1000 Brussels Belgium

ELROB inquiries to:

C-ELROB 2011

Frank E. Schneider
eMail: elrob@fkie.fraunhofer.de

**IARP Workshop at R.M.A**

**Royal Military Academy**

IARP
International Advanced Robotics Programme

**INTERNATIONAL ADVANCED ROBOTICS PROGRAMME**

**Fifth International Workshop**

on

# Robotics for risky interventions and Environmental Surveillance-Maintenance

## RISE'2011

**17-18 June**

## C-ELROB 2011

**20-24 June**

**Brussels - Leuven**

# Call for Papers
# Call for Trials

FNRS FWO VLAANDEREN

## Background

The general objective of the International Advanced Robotics Programme (IARP) is to encourage development of advanced robotic systems that can dispense with human work for difficult activities in harsh, demanding, or dangerous environments, and to contribute to the revitalization and growth of the world economy.

Through this fifth workshop, the IARP working group **RISE** (Risky Intervention and Surveillance /Maintenance of the Environment) and the NATO-RTO AVT, IST, and SCI Task groups focusing on military Robotics (www.rta.nato.int) organise dedicated sessions on next topics:

## Scope and Topics

Robotics solutions properly sized with suitable modularized mechanized structure and well adapted to local conditions of un-structured, sometimes unknown fields can greatly improve the safety and the security of personnel as well as work efficiency, productivity and flexibility. Solving this problem presents challenges in robotic mechanics and mobility, sensors and sensor fusion, autonomous or semi autonomous navigation and machine intelligence.
The workshop will review and discuss the available risky intervention/environmental surveillance technologies along with their limitations and discusses the development efforts to automate tasks related to reconnaissance/ detection / decontamination / neutralization process wherever possible through robotization. Specific topics include but are not limited to:

- Inspection of fire or crisis/disaster's areas
- CBRN-E threats
- Map building and reconstruction
- Networked crisis management tools
- Human-Machine Interfaces
- Remote controlled, semi-autonomous, autonomous
- Robot (UGV, UAV, USV) navigation
- Networked Multi-robot cooperation
- Swarm of robots

## Sponsorship

This Workshop is sponsored by Belgium, Germany, France, Korea, Poland, Russia, and UK

## International Programme committee

| | | |
|---|---|---|
| Belgium | Yvan Baudoin **Co-chairman** | Royal Military Academy |
| France | Simon Lacroix | LAAS-CNRS, Toulouse |
| Germany | Rüdiger Dillmann,<br><br>Frank Schneider **Co-chairman** | Universität ,Fakultät für Informatik, Karlsruhe<br><br>FhG-FKIE, Wachtberg (NATO RTO) |
| Korea | C-W. Lee | Korea Institute of Science and Technology, Seoul |
| Poland | A. Maslowski | University of Warsaw |
| Russia | V. Gradetsky | Institute for Problems in Mechanics, Moscow |
| U.K | G. Pegman | RURobots, Manchester |
| USA | Jim Overholt | Dir. Joint Ground Robotics Enterprise |

## C – ELROB 2011

The annual ELROB competition allows demonstrating and comparing the capabilities of unmanned systems in realistic scenarios and terrains. Therefore, it is as close as possible to the typical deployment scenario for today. We believe that we are all committed to demonstrating at ELROB is presenting cutting edge robotics technology, applied to real world applications, that can save lives now and shape the direction of research for the short and medium term. ELROB will enable Europe to re-engage in the benefits robotics can deliver now and the future.

**The detailed scenarios will be described on www.elrob.org by end of May 2011.**
**The C-ELROB will take place in Leuven (Belgium) from 20 - 24 June 2011**

## Registration of Interest form

5th IARP Workshop on

# 'Robots for Risky Interventions and Environmental Surveillance-Maintenance'

**17-18 June 2011**

# C-ELROB 2011

**20-24 June 2011**

Please type or write in block letters.

Name/Title: .....

Address: .....

.....

.....

Phone: .....

Fax: .....

E-mail: .....

I plan to attend the Workshop

I plan to attend C-ELROB 2011

**Please return this form to**
**Yvan.baudoin@rma.ac.be**

**We will contact you with registration and trials details through www.elrob.org**