



▶ REV'10: AN INVITATION TO STOCKHOLM!



▶ FEATURED PROJECT: THE ILAB EUROPE INITIATIVE



▶ IAOE SUPPORTS THE E-NGN ASSOCIATION

○ ISSUE #3 | ○ JANUARY 2010

IAOE newsletter

ADDRESSING THE NEEDS OF THE
ONLINE ENGINEERING COMMUNITY

REV2010: Stockholm, June 29 – July 2

Only ten days after the Swedish event of the millennium – the Royal Wedding between the Swedish crown princess Victoria and Daniel Westling on June 19, 2010, in the Cathedral of Stockholm – the REV event of the year will take place in the Royal Institute of Technology, also in Stockholm. Further information about REV'10 can be found at <http://www.rev-conference.org/REV2010>, where you will also find links to KTH, the Royal Family, Sweden, and Stockholm. REV2010 is the 7th annual event in remote engineering and virtual instrumentation. The general objective of this conference is to demonstrate and discuss fundamentals, applications and experiences in the general field on online engineering. With the globalization of education, the interest in teleworking, remote services and collaborative working environments, is now increasing rapidly. The conference will take place at the KTH main campus situated in metropolitan area of Stockholm, at 15 minutes from the city center (5 minutes by subway). The actions to attract keynote speakers, participants, papers, sponsors, etc. are in full swing right now. At this moment, Prof. Anette Kolmos (SEFI

President) and Prof. Sabina Jeschke (RWTH Aachen University) have confirmed their participation as keynote speakers. Two workshops are already confirmed as part of the conference programme, by the Blekinge Institute of Technology (the VISIR project), and by the Communication Hall of the Department of Energy Technology at KTH. Please visit the conference web site for regular updates. The conference takes place in the most beautiful time of the year, directly after midsummer, when the days are so long that there will not be any intermission between twilight and dawn. If you include the north of Sweden in your trip you will also have the chance to check that the midnight sun will never set.

We're planning a reception at the Stockholm City Hall, the place of Noble Prize Banquettes. Immediately before the start of the conference there will be an excursion to the Stockholm archipelago. Registration will be possible through the conference server from early February. The important dates to bear in mind are the following:

March 19, 2010:

Submission deadline

April 12, 2010:

Notification of acceptance

April 30, 2010:

Author registration deadline

June 11, 2010:

Camera-ready due

Göran Karlsson



MORE IAOE CO-SPONSORED CONFERENCES:
(reduced fees for IAOE members)

IEEE EDUCON: Madrid, Spain (14-16 April 2010)
ICELW: New York, USA, (9-11 June 2010)
ICL: Hasselt, Belgium (15-17 September 2010)

IAOE JOURNAL PARTNERSHIPS:
(reduced publishing fees for IAOE members)

www.i-joe.org (International Journal of Online Engineering)
www.i-jet.org (International Journal of Emerging Technologies in Learning)
www.i-jim.org (International Journal of Interactive Mobile Technologies)



IAOE supports e-NGN

Next generation networks (NGN) are now becoming a popular means of transport for all services and applications. All telecom operators have started migrating from traditional networks to high performance, profitable and architecturally evolved networks. The e-NGN (e- Next Generation

Networks) association is an initiative of African and Arab researchers on the question of how to take part in the innovation, development and research within NGN stakes and issues. As a first accomplishment, Rachida Ajhoun from e-NGN and Christophe Gravier from IAOE met in Rabat in December in order to establish the participation of the IAOE as a supporting association to the e-NGN annual conference (<http://www.e-ngn.org/ngns10/>). This conference is supported by the IEEE and will be held in Marrakech, Morocco, on July 8-10, 2010. All IAOE members will benefit from a discount on the conference fee. We encourage you to present your original work in Marrakech in July and come to discuss with your peers in the community of Next Generation Networks!

Christophe Gravier (IAOE) and Rachida Ajhoun (e-NGN)

Featured project - iLab Europe

The iLab-Europe initiative comprises a group of universities led by the Carinthia University of Applied Sciences (CUAS), Villach, Austria, that are developing online laboratories. The members of the iLab-Europe group cooperate especially in the field of interface standardization, with the aim to foster the development of new online laboratories and experiments, as well as the migration of existing ones to be accessible via the iLab Shared Architecture (ISA).

The iLab Shared Architecture is a software architecture developed at the Massachusetts Institute of Technology (MIT) that offers developers and users a common framework to use and share online labs. ISA facilitates managing laboratories and users in a scalable manner. It distinguishes the tasks of using a specific lab that comprises an experiment, from the tasks of managing users' accounts, user authentication and other tasks that follow a lab session. This clear separation of roles is one of the main advantages of the iLab Shared Architecture, as online laboratory developers should concentrate on the laboratory's domain-specific



and pedagogical aspects. CUAS has several laboratories available via iLabs and is connected to other online

**IF YOU CAN'T
COME TO THE LAB,
THE LAB
COMES TO YOU!**

laboratories from the MIT that can be accessed through a single server (Service Broker). The user does not realize where the experiment is carried out. CUAS expects to enrol other universities in the near future and encourages them to share their laboratories in the expanding iLab network.

In November 2009 the First iLab Europe Workshop was organized in Villach, Austria, with the aim to start a broader dissemination of iLabs within Europe. The workshop was attended by 18 participants from 12 institutions.

Some of the joint projects of the initiative for the next months are:

- Installation of ISA Service Brokers at the Universities of Brasov, Romania, and Genoa, Italy. Together with Villach, this is the first stage of a European ISA backbone. All interested institutions can connect their online labs via these servers.
- A joint group of young scientists from Austria, Portugal, and Sweden, will develop an ISA-VISIR interface (VISIR: see last newsletter).
- Another group, led by UNED Madrid, works on the integration of iLabs in Learning Management Systems (LMS).

Michael Auer

SUMMER SCHOOL IN TECHNOLOGIES FOR REMOTE ENGINEERING

The 2010 **Technologies for Remote Engineering Summer School** program addresses Computer Vision and will take place at the Blekinge Institute of Technology in Sweden from the 4th to the 10th of July 2010.



CALL FOR BOOK CHAPTERS ON INTERNET- ACCESSIBLE REMOTE LABS

An open call for chapters for a book entitled **Internet Accessible Remote Laboratories: Scalable E-Learning Tools for Engineering and Science Disciplines** has just been launched by IGI Global. The submission deadline is March 15th, and the full chapters are due by July 15th. The book editors are Dr. Abul K. M. Azad from the Northern Illinois University, USA, Professor Michael E. Auer from the Carinthia University of Applied Sciences, Austria, and Dr. V. Judson Harward from Massachusetts Institute of Technology, USA. For further information please visit <http://www.igi-global.com/requests/details.asp?ID=787>.

REMOTE LABS @ IEEE TRANSACTIONS ON LEARNING TECHNOLOGIES

A special issue on the **many facets of remote labs** has just been published by the IEEE TLT. Further information can be found at <http://www.computer.org/portal/web/ltl>

SHORT NEWS

From January 1st 2010, Danilo Garbi Zutin replaced Prof. Andreas Pester as **Secretary General of the IAOE**.



The International Association of Online Engineering (IAOE) is a non-profit organization with the objective of encouraging the wider development, distribution and application of Online Engineering (OE) technologies and its influence to the society.

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For membership information, please visit <http://www.online-engineering.org/>.