

**Dear Reader,**

### **You scientist shape this Newsletter**

This Newsletter is intended for all SPS members, researchers, industries, students, interested specialists and physics friends. Feel free to share this Newsletter within your community.

You would like to share some news with this community? Please contact [Celine.Lichtensteiger@UniGe.ch](mailto:Celine.Lichtensteiger@UniGe.ch).

## **WHAT'S UP IN SWITZERLAND?**

### **Physics in Industry - SATW Technology Outlook 2017**

It is essential for industrial enterprises in Switzerland to be able to identify technological developments and react to them in good time. On behalf of the Swiss Confederation, the Swiss Academy of Engineering Sciences [SATW](#) compiles a regular strategic monitoring report devoted to such early recognition, called Technology Outlook.

In the "Technology Outlook 2017", more than 20 experts are assessing the opportunities and risks of technical developments for Switzerland. Topics include industry 4.0 (or fourth industrial revolution), artificial intelligence, robotics and new manufacturing processes.



Full version in German and French. Executive Summary also in English available. [\[more\]](#)

### **Condensed Matter Physics - Invitation TOF-SIMS and XPS, a revolution for chemical surfaces analysis**

The recent technological breakthrough in TOF-SIMS (time of flight secondary ion mass spectrometry) technics allows an ultimate chemical detection with a spatial resolution of one hundred nanometers on any kind of sample. Completed by XPS (X-ray photoelectron spectroscopy), it becomes a real asset for Research and Development.



[LTA](#), the Laboratory of Advanced Technology - a technology platform for companies - invites you to discover this technological advance on Tuesday June 20 at 2pm at the University of Geneva. [\[more\]](#)

### **History of Physics - Les Bastions, University of Geneva, a new historic site of the EPS**

The Bastions building of the Geneva University has been distinguished recently as one of the European Physics Society Historic



Sites. This was in recognition of the remarkable scientific activity of two Genevan physicists, the experimentalist Ch.-E. Guye and the theoretician E.C.G. Stueckelberg who worked in its premises in the first half of the 20<sup>th</sup> century. The unveiling of the commemorative plate took place last March 29. The ceremony was a success: University officials, SPS and EPS boards members, together with some noteworthy guests (most of them Stueckelberg's former students, collaborators or just admirers), happily enjoyed the speeches and admired the plate. The reader willing to learn more about the science of Guye and Stueckelberg is kindly referred to Jan Lacki's paper to appear in the next *SPS Communications* No. 52. [\[more\]](#)



## WHAT'S UP IN EUROPE?

### Education & Outreach - Science Me!

The European Science Show Competition « Science Me! » took place this year on June 11-13, 2017 during the [IdeenExpo](#) in Hannover, Germany, with ~350'000 visitors expected.

As an essential science dialogue tool, « Science Me! » is an innovative instrument offering to the general audience the possibility to evaluate – at the measuring rod of their own sensitivity and understanding – short presentations in all fields of science or technology given in a playful and interactive manner. [\[more\]](#)



## WHAT'S UP IN THE WORLD?

### The SESAME light source officially opened in Allan (Jordan)

SESAME, the Synchrotron-light for Experimental Science and Applications in the Middle East, was officially opened in Allan (Jordan) on May 16, 2017 by Jordanian King Abdulla II in the presence of about 300 international guests. Three beamlines will be operational this



year, and a fourth in 2019. The research subjects likely to be studied will not only include physics and materials science, but also medicine, biology, chemistry, healthcare, environment, agriculture and archaeology. The opening ceremony was the occasion for representatives of SESAME's member countries (Cyprus, Egypt, Iran, Israel, Jordan, Pakistan, the Palestinian Authority and Turkey) and the 17 observers (including Switzerland and the EU) to celebrate this new competitive regional facility. More information about the history of the facility, as well as of the properties of its machine and beamlines can be found [here](#).

### Outreach - March for Science

On April 22, 2017, in more than 600 cities around the world, scientists marched to affirm that science

**#MARCHFORSCIENCE**

belongs to everyone, that facts are real and that science, free from partisanship and prejudice, benefits humanity. They marched to defend the role of science in policy and society. In Switzerland, the March for Science was organized in Geneva and was largely broadcasted [\[more\]](#). More details to appear in the next *SPS Communications* No. 52.

The Swiss Physical Society (SPS) unites persons interested in physics from university, schools, research, development and industry. The SPS promotes the scientific exchange of ideas in Switzerland and with its international environment.

