



PRINCE OF ASTURIAS AWARDS: A CULTURAL PROGRAMME OPEN TO ALL

On Thursday 24 October, CERN's Director for Research and Computing Sergio Bertolucci joined Nobel Laureates Peter Higgs and François Englert in meeting with hundreds of students at Oviedo University. A series of exhibitions and events is being organised for the Spanish public through the cultural programme set up by the Prince of Asturias Foundation in the framework of the Prince of Asturias Awards Ceremony.



(From left to right) François Englert, Peter Higgs, Sergio Bertolucci and Rolf Heuer celebrate their prize with students at Oviedo University. Photo: Iván Martínez / FPA.

The programme for the Awards Week designed by the Prince of Asturias Foundation includes about 20 different cultural activities, including talks, exhibitions, film screening, working meetings and public events held in the capital of Asturias, Oviedo.

This year, since CERN is among the laureates of the prestigious award bestowed by the Foundation, the cultural events also featured members of the CERN Directorate. On Thursday 24 October, CERN's Director for Research and Computing Sergio Bertolucci met with students at Oviedo University and, together with the other speakers including Peter Higgs, François Englert and members

of the Science Faculty, encouraged them to continue their research careers. "I was delighted to talk to the students in Oviedo and to share with them the enthusiasm to be involved in the scientific adventure," said Sergio Bertolucci. "Knowledge and science are the best antidotes to the economic downturn and students have – and should keep – the optimism of their natural curiosity. This is the successful recipe for a sustainable future."

The meeting was broadcast live on screens throughout the University campus and was followed by hundreds of students. Speakers and participants were also entertained by stand-up comedians after the meeting. The

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A word from
the DG

STAKEHOLDER RELATIONS OFFICE

Scientists, politicians, the public, school children, our neighbours, you. All of these groups of people have a stake in CERN, and all are important to us.

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A word from the DG STAKEHOLDER RELATIONS OFFICE

The list of stakeholders in an organisation as large and complex as CERN is a long and ever lengthening one. Each group has its own specific interests and needs in terms of what kind of information it requires from CERN and how we should engage. It's important, therefore, for us to ensure that we're communicating optimally with everyone we care about and who cares about us.

This is something that CERN has always taken seriously. The CERN Courier, for example, was first published in 1959 and we had a pro-active public information office right from the start. Today, our stakeholder relations are spread between several groups and teams, reflecting the nature of CERN today. But while we're

already doing a good job, I think we can do better by exploiting the synergies between these teams, and that's why we're launching a new **Stakeholder Relations Office** comprising the leaders of those teams.

The groups will not merge, rather their leaders will form a new team, meeting regularly and reporting to management on how best to engage with our ever increasing number of stakeholders, providing them all with the information they need in forms appropriate for them. The Stakeholder Relations Office will do this in keeping with the spirit of the CERN Convention, which urges us to make the results of our work as widely and openly available as possible. With CERN being a

household name these days, it's important that we care about those who care about us.

You'll find further information on the Stakeholder Relations Office's mandate here: <http://stakeholder-relations.web.cern.ch/>

Rolf Heuer

PRINCE OF ASTURIAS AWARDS: A CULTURAL PROGRAMME OPEN TO ALL

eventful day drew to a close with a concert by the Symphony Orchestra of the Principality of Asturias and the Choir of the Prince of Asturias Foundation.

CERN scientists were also featured on the day of the awards ceremony, with a scientific talk given at the Faculty of Science of Oviedo University by CERN theorist Luis Alvarez-Gaume. "The lecture was followed by students and other members of the Physics Faculty," said Luis Alvarez-Gaume. "We enjoyed their enthusiasm, their interest and, of course, their many questions!"

The lectures were followed by a buffet-lunch where the award winners and their friends could exchange experiences and views in an informal and friendly atmosphere. "It was an opportunity for us to meet with top-level artists, writers, and people coming from other disciplines and fields," said Luis Alvarez-Gaume. "It was a very enriching experience! Many of them expressed their interest in visiting CERN and I really hope to have the opportunity to meet them again."

One of the aims of the cultural programme organised during the Prince of Asturias Awards Week is to enable the general public to meet with the laureates and get a better understanding of their work and achievements. This aim is also fulfilled through the wide coverage of the whole



The physicists giving a public lecture at Oviedo University.

series of events – including, of course, the awards ceremony – in the Spanish and Latin-American press. If you missed the live events, videos from selected events will shortly be made available on the Foundation website: www.fpa.es

Antonella Del Rosso

(Continued from page 1)

A WORD FROM FRÉDÉRIC BORDRY: ENERGY FOR FUTURE SCIENCE

With the second workshop on Energy for Sustainable Science wrapping up in the CERN Main Auditorium, Chairman Frédéric Bordry takes this opportunity to discuss how CERN is contributing to the Sustainable Science conversation.

The ended with a clear conclusion: energy is a key parameter in future projects. When we design scientific experiments and the related infrastructures it is imperative to think ahead about how energy will be managed. At the same time, we can't forget that our Organization, like other leading laboratories, was created when the climate was significantly different and when the concept of 'sustainability' hadn't yet been coined!

This means that existing facilities have to adopt an energy policy that informs new projects but can also gradually implement changes in existing operations. This is what is happening at CERN and in many other research facilities, as presented in detail by the directors and energy managers of leading laboratories such as DESY, KEK, Fermilab, BNL and ESS (co-organiser of the workshop with CERN and ERF).

CERN's energy coordinator Helfried Burckhart provided an overview of what we are doing to increase energy efficiency further and to reduce consumption, namely applying a coherent energy policy to the accelerator chain, to civil engineering works and to the

re-use of waste heat.

Konstantinos Papastergiou talked about a proposal under discussion to consolidate the East Area of CERN's accelerator complex. This part of the facility is powered in direct current. Changing this into pulsed operation would allow an energy saving that could offset the consolidation cost.

The IT department's Wayne Salter presented an important energy saving made by improving the cooling efficiency in the data centre through small changes to the ageing existing infrastructure.

The GS Department created a model describing the estimated energy consumption of the CERN campus that comprises work, social and visitors facilities. Luigi Scibile (GS Department) displayed a map of CERN buildings illustrating their energy consumption and explained how the latest awareness of environmental impact is being applied to a new building under construction.

Some technologies developed for our scientific programme have applications

in the green-tech world, such as the superconducting links for the LHC and the solar panels produced by the spin-off company SRB, based on high-vacuum technology.

Looking back at the Lund workshop in 2011, I can see how many initiatives have been put in place. Energy-awareness is slowly becoming part of the culture of research infrastructures. We look forward to the 2015 edition, where we aim to present even more sustainable scientific initiatives.

Frédéric Bordry

LS1 REPORT: SUCCESSFUL TESTS

At the PS Booster, the new beam dump and the associated shielding blocks surrounding it have been successfully installed and the installation of the beam transfer lines are now under way. The **BLSMH** septum magnet has been successfully repaired following a confirmed vacuum leak.

At the PS, the consolidation of the seven main PS magnets has started, and the replacement of the old cooling and ventilation system continues to progress well. At the SPS, the replacement of the irradiated cables in Long Straight Section 1 (LSS1) of the SPS is now well under way and proceeding well.

At the LHC, the Superconducting Magnets and Circuits Consolidation (SMACC) project remains ongoing. The closure of internal sleeves has begun in sector 7-8, and the

shunt installations, a major consolidation activity, are progressing well in sector 8-1. The equivalent of more than one sector's outer sleeves (W) have been closed, and leak tests are in progress in several sub-sectors. Seven sub-sectors have passed the tests and another seven will soon be tested.

The inspections to identify defects in the DFBA electrical feedboxes have been finalised: in total, four faulty ones have been identified, with damaged gimbal bellows

that will need to be repaired. Two of these replacements are under way, which will require part of the DFBA at LHC Point 6 to be brought up and worked on at the surface in the coming weeks.

All 1,344 DN200 safety valves designed to release the helium in the event of pressure build-ups in the accelerator have been successfully installed.

The X-ray testing campaign in the tunnel,



aimed at detecting faults in the machine's cryogenic distribution system, is ahead of schedule with 80% of the tests already having been completed. Moreover, the first short circuit test campaign will start this week at LHC Point 4, validating the replacement of the water-cooled cables.

Lastly, 17 out of the 18 magnets being replaced in the accelerator have already been reconnected and have successfully passed their electrical tests.

CERN Bulletin

300,000 REQUESTS, AND JUST AS MANY ANSWERS

Created almost three years ago, the CERN Service Desk has already simplified the lives of thousands of people at CERN. Here we look back over the history of this success story.

The CERN Service Desk was created in 2011 and consists of a team of six people who are ready to take your call at 77777. It was launched on the basis of one simple and effective principle: centralising requests for information or assistance from the CERN community and dealing with them using a standardised procedure, regardless of which services they relate to. Nearly three years later, the record is looking really impressive. The Service Desk manages an average of 400 problems every day, which equates to more than 300,000 since it was launched. "When we started, the service had 400 supporters," recalls Reinoud Martens, a member of the GS Department and of the team in charge of the project. "Today, we work in collaboration with 1,000 supporters." Their common goal is to find answers and solutions.



The Service Desk team.

"We can be contacted by telephone at 77777, in person in Building 55 from Monday to Friday, 7.30 a.m. to 6.30 p.m., or through the [Service Portal](#). We can also be contacted by e-mail at service-desk@cern.ch. Whatever the request, the Service Desk does its best to find a solution," explains Emilie Kirschner, Service Desk Team Leader. "We deal with all kinds of problems, from the most common to the most unusual. For example, in the past, we have helped a woman who was looking for a breast-feeding room."

Most of the requests sent to the Service Desk are quickly (in no more than 10 minutes) referred to the relevant service to be dealt with. However, around 20% of the tickets received are resolved by members of the Service Desk team themselves. "That is made possible by the ever-growing experience of the team members, and also by the continuous improvement of our Service Portal catalogues. Of course, we aim to increase this figure, but it's very difficult considering the enormous variety of topics brought to us," says Barbara Brugger, Service Desk Manager. The HR and Finance Departments are now joining the system, which raises the question of confidentiality.

"There's no problem in that respect," adds Olaf Van Der Vossen, the project co-ordinator. "We can create confidential tickets that only people directly concerned are authorised to see."

CERN's Service Desk has been presented at numerous European and international conferences and is being emulated elsewhere. "More and more public and private organisations want to put this kind of system in place," Reinoud says enthusiastically. "Several organisations have even sent their people here to see the Service Desk and the Service Portal infrastructure in operation for themselves."

Friendly and helpful no matter what, the members of the Service Desk are always ready to help. If, however, you encounter problems in the resolution of your problem, let them know using the ticket system's feedback function. "All feedback, negative as well as positive, is of course welcome, as it allows us to continually improve our service," Barbara concludes.

CERN Bulletin



Always ready to help!

77777, an efficient partner for the Open Days

Exceptional times call for exceptional measures: for the Open Days weekend on the 28 and 29 September 2013, the members of the Service Management team created an operational cell with extra team members in order to be prepared for every eventuality. In total, 270 tickets were handled, 560 calls received and as many made to co-ordinate the teams on the ground on Saturday and Sunday until 9.00 p.m.

ARDENT IGNITES RESEARCH CAREERS

The ARDENT (Advanced Radiation Dosimetry European Network Training) project passed its mid-term review exercise with flying colours. At the recent workshop at the Politecnico of Milan, the ARDENT researchers again took full advantage of the networking and training opportunities offered by the project.



"The EU officer and the accompanying expert from the Norwegian Research Council congratulated us on the work done and the progress we are making with the programme," says CERN's Marco Silari, ARDENT scientist-in-charge. "All the researchers involved in ARDENT presented their work and we were able to confirm that we are keeping on schedule and delivering the expected results. In some cases, the research programme has even been extended to include new research developments."

An example is the GEMPIX detector, a sensor for radiation detection that uses a Gas Electron Multiplier (GEM) gaseous detector with a MediPix read-out system. "GEMPIX will be tested in the coming months at the INFN Legnaro Laboratories in Italy," says Marco Silari. "It is a potentially powerful new instrument for dosimetry and microdosimetry."

An important event that took place in the framework of the workshop was a full-day outreach initiative organised as part of the celebrations of the 150th anniversary of the Politecnico of Milan, with the participation of about 200 high-school students.

After the official mid-term review meeting, the ARDENT researchers attended a two-day training course on experimental microdosimetry. "The course was also open to scientists who are not members of the ARDENT project," explains Marco Silari. "The course started with some theory lectures, which were followed by hands-on work on instrumentation for microdosimetry organised by the INFN Legnaro Laboratories."

Training is an important part of the ARDENT programme and will also cover the managerial, financial and administrative aspects of being involved in an EU project,

whether in a research institution or in a private company. "We think that ARDENT's industrial and institutional partners could be really helpful in training our researchers in, for example, making a business plan or enhancing a research project by applying for EU funds," says Marco Silari.

The opportunities offered by ARDENT also include participation in major conferences in the relevant field of radiation dosimetry where the ARDENT researchers have an opportunity to present the results of their work. At the end of the month, the project's achievements and research work will be featured in one of the "Special Focus Workshops" included in the programme of the [IEEE Nuclear Science Symposium](#) in Seoul.

Antonella Del Rosso

TAKING ATLAS TO NEW HEIGHTS

Earlier this month, 51 members of the ATLAS collaboration trekked up to the highest peak in the Atlas Mountains, Mt. Toubkal (4,167m), in North Africa.

The physicists were in Marrakech, Morocco, attending the ATLAS Overview Week (7 - 11 October), which was held for the first time on the African continent. Around 300 members of the collaboration met to discuss the status of the LS1 upgrades and plans for the next run of the LHC. Besides the trek, 42 ATLAS members explored the Saharan sand dunes of Morocco on camels.

Abha Eli Phoboo, ATLAS experiment



Photo courtesy of Patrick Jussel.

EGYPT RECEIVES COMPUTERS FROM CERN

On Tuesday 22 October, CERN officially celebrated sending IT equipment to Egypt, the fifth country to benefit from such donations after Morocco, Ghana, Bulgaria and Serbia. Although no longer adequate for CERN's cutting-edge research, these machines are still suitable for less demanding applications.

In a ceremony to mark the occasion, Rolf Heuer, CERN Director-General, and Egyptian physicist Amr Radi, team leader of ASRT (Egypt's Academy of Scientific Research and Technology) within the CMS collaboration, who has played a major part in the operation, expressed their enthusiasm for the project.

A total of 196 servers and 10 routers will be installed on the ASRT premises in Cairo, where they will be used to analyse data from the ALICE and CMS experiments.

Anaïs Schaeffer



Rolf Heuer and Amr Radi, during the official ceremony

CINEMA, FROM SCIENTIFIC ENQUIRY TO ARTISTIC EXPRESSIO

The CERN Cinéclub's October cycle explores the evolution of cinema with film-makers Adelina von Fürstenberg and Jan Peters.

For the past few decades, the CERN Cinéclub has been screening films for the CERN community on Thursday evenings. New members have brought with them greater enthusiasm and new ideas for this Cinéclub tradition. The greatest of these new ideas has been the addition of "cycles", dedicated either to directors (Luis Bunuel, Serguei Paradzanov, Emir Kusturica, Ken Loach) or to particular themes (Czech new wave, science fiction).

Inspired by discussions with Jan Peters - winner of the Collide@CERN Geneva prize and CERN's filmmaker in residence - the Cinéclub's October film cycle has explored the evolution of cinema from a form of scientific enquiry to a true form of artistic expression. The cycle has included the mesmerising scientific films of Jean Painlevé (1927-1982), the experimental 1929 silent documentary "Man with a Movie Camera", and "In the Mirror of Maya Deren", the fascinating biography of the ground-breaking filmmaker Maya Deren. Jan Peters attended the first showing and commented on Jean Painlevé's films, providing a historical context

and helping viewers to appreciate better what they were watching.

But what makes the October cycle special are the final two films, shown in the presence of their makers:

- On Thursday 24 October, the Cinéclub screened "THEN AND NOW – Beyond Borders and Differences", a compilation of seven short films by independent, well-known film-makers from the five continents. The film highlights the historical, spiritual and cultural links across cultures and beliefs. The CERN screening was attended by renowned international curator, Adelina von Fürstenberg, who produced the movie together with the NGO *Art for The World*.
- On Thursday 31 October, Jan Peters will attend the Cinéclub's screening of his film "Nothing is better than nothing at all" (*Nichts ist besser als gar nichts*). The CERN Cinéclub invites you to come along

for the screening and to take part in the stimulating discussion that will follow.

CERN Bulletin



"In the Mirror of Maya Deren", a film by Martina Kudláček.

SAVE OUR INBOXES! USE E-MAIL WISELY

At CERN, with collaborators all over the world, e-mail is inevitably the primary means of communication: we use it for everything from coordinating projects to organising lunches. But e-mail can also be one of the most inefficient means of communication we have! Here's how to fix it.

Let's get straight to the point: we receive too many e-mails.

Think about all the e-mails that you deleted without a second thought. Think about the times you've unnecessarily been in CC. Take a look at the unread e-mails sitting in your inbox at this very moment, ones that you have no intention of ever looking at.

You can, however, tame this overload with a few simple measures and turn e-mail into an important communication and productivity tool.

Many recommendations for improving e-mail etiquette suggest an abrasive approach riddled with bullet points. In a vastly multi-cultural setting such as CERN, however this approach may fail. So, here are a few dos and don'ts based on experience from working at the Laboratory.

This article was inspired by emailcharter.org and an article on timemanagementninja.com.

Achintya Rao

✓ DOS

- **Ask yourself: Is this e-mail necessary?** Can you just call the person instead?
- **Pick a clear subject; avoid generic ones.** Generic subject lines make it difficult to prioritise or search through one's inbox archives.
- **Ensure that the body of the message is short, unambiguous and to the point.** It is your responsibility as the sender to respect the recipient's time and minimise back-and-forth exchanges. If the body of the message needs to be long, include a summary at the top. When sharing a video or an article, mention why you are sharing it and what the recipient can expect from it.
- **Use the "To" and "CC" fields carefully.** Include under "To" everyone who is directly addressed in your e-mail. Save the "CC" field for those who need to be informed or contacted subsequently, but minimise this list as far as possible.
- **Think before you hit "Send".** This cannot be stressed enough. Ensure you have the correct people in the recipients list; check that the subject is clear and your e-mail is well-structured.
- **Classify e-mails that you send.** When requiring action from someone else, classify your messages as important or urgent to enable the recipient(s) to prioritise.
- **Prioritise, and react differently to different e-mails.** Archive e-mails that you need to store but require no further action; delete unnecessary mail immediately; and mark as unread e-mails that you need to act upon but can't or don't have to immediately.
- **Disable e-mail notifications.** This may be a radical thought, but do you really need to be informed of every e-mail as you receive it? Instead, devote a few minutes each hour to check your inbox and act upon your received messages.

✗ DON'Ts

- **Use "Reply to All"! EVER!** Ok, there are some exceptions, but does the entire list of original recipients need to know you've thanked the original sender? Do replies with condolences need to go out to everyone in the original thread?
- **Treat all messages (that you send and receive) as important.** Some messages clearly deserve well-thought-out replies, whereas others require no response at all.
- **Include all your superiors in CC in every e-mail you send.** Most of us have a fair degree of autonomy when it comes to work. Use this well and report on your progress, but don't include every supervisor in CC in every e-mail – it bombards their inbox and makes it difficult for them to separate the wheat from the chaff.
- **Respond to "FYI" e-mails with "Thanks!"**
- **Include action items for different (groups of) people in the same e-mail.** Sending individual e-mails (or ones to smaller groups) can prove more efficient in the long run, even if it takes you longer to compose them.
- **Use line breaks to split a single paragraph or sentence into multiple lines.** Many people access their e-mail on portable devices and the formatting on phones is completely broken if you do this.
- **Forward long threads without any summary and only an "FYI".** You should include a summary in the body of your e-mail, above the forwarded conversations. The same goes for adding new people into a conversation.

A COMPETITION FOR BUDDING SPANISH SCIENTISTS IS LAUNCHED

Drawing, video, photo and even a challenging news story category complete the range of options offered by the competition launched by CERN in collaboration with the “Prince of Asturias” foundation. Open to young and very young students in Spain, the first prize for six Spanish pupils of all ages will be a trip to CERN.

Since 1981, the Prince of Asturias Foundation has presented awards to eminent personalities in the fields of arts, communication and humanities, international cooperation, social sciences, concord, sports, literature, and technical and scientific research. CERN, Peter Higgs and François Englert are the laureates of the 2013 award in the scientific category “for the theoretical prediction and experimental detection of the Higgs boson”.

CERN’s share of the prize-money associated with this prestigious prize will be partly used to run a competition for Spanish schoolchildren and students. “Both CERN and the *Fundación Príncipe de Asturias* wish to promote the importance of science and technology in our daily life and the importance of the collective effort to reach ambitious objectives such as the discovery of the Higgs boson,” says Isabel Béjar Alonso, one of the members of CERN’s Directorate Office and a member of the Spanish particle physics community. “Awareness-building actions such as these need to start at a very early age and this is what we aim to achieve with this initiative which will involve all schools in Spain.”

The competition is open to pupils aged 6 to 18, covering schools from primary (6-11), to secondary (12-15), to *Bachillerato* (16-18). The students will be asked to submit a drawing, photo, video or news article on the [CERNland website](#). The contributions must be inspired by a theme relating to science,

fundamental research or CERN itself (see box for details). A committee composed of CERN and Spanish scientists will select the top 50 for each format and age range. The three winners (one for each age range) of the drawing/photo/video category will then be selected by public vote. The online public jury will also be able to express their preferences on the “News article” category. However, in this case, the three winners will be chosen by the expert committee.

The best pieces of art will be published in CERNland and the six winners will be invited to CERN for a two-day visit. “We will organise a special programme of visits and hands-on activities for the winners,” says Isabel. “They will also receive a special award once they are here. It will be a once-in-a-lifetime experience for these budding young scientists.”

Antonella Del Rosso

How to take part?

If you are a teacher or pupil in a school in Spain, go to the [CERNland](#) website from 1 December onwards and read the detailed rules and regulations. The competition is open to pupils aged 6 to 18, broken down into the following categories: *Primaria*, ESO, and *Bachillerato*.

The contribution can be submitted in two formats: Drawing/ Photo/Video and/or Story/News/Article.

The work should be inspired by one of the following topics:

- How has fundamental science improved your life?
- What is “science” to you?
- Will the Higgs boson one day change my way of looking at the world?
- In your own words, describe what you think the Higgs boson is.
- Scientific progress: the catalyst of humanity?
- How is science useful?
- How is research into fundamental subjects, such as particles or genes, useful?
- When I grow up, I want to be a scientist.
- CERN and Me.
- How does CERN inspire me?
- Why is it important for society and individuals to learn how things work?

HIGHLIGHTS FROM E-EPS:NEW MILESTONE FOR ELI BEAMLINES FACILITY

e-EPS News is a monthly addition to the CERN Bulletin line-up, showcasing articles from e-EPS – the European Physical Society newsletter – as part of a collaboration between the two publications.

On 16 September 2013, the [Extreme Light Infrastructure \(ELI\)](#) Beamlines facility awarded a contract worth approximately €34.5m to Lawrence Livermore National Security LLC (LLNS, California, USA) to develop and deliver a state-of-the-art laser system that will be at the heart of the ELI Beamlines user facility.

Located in the village of Dolní Břežany, Czech Republic, the ELI Beamlines facility aims to pioneer work in a number of research fields

using ultra-high intensity lasers. The facility will host a cutting-edge research laser, around 100 times more powerful than any other laser in operation today. In particular, it will focus on providing users with ultra-short energetic particle beams (10 GeV) and radiation beams (up to a few MeV), produced by compact laser plasma accelerators. The facility will be operational in 2016.

The laser system to be designed by LLNS

will combine sophisticated semi-conductor diode laser technology with advanced optics, integrated control systems and techniques for managing the production of ultra-short light pulses.

LLNS will work with scientists from the [Institute of Physics of the Academy of Sciences of the Czech Republic](#) to design, develop, assemble and test the system at the Lawrence Livermore National Laboratory.



After completion, the laser system will be transported to the ELI Beamlines facility in the Czech Republic in 2016 where, after some 18 months of commissioning, it will be made available for use by the international scientific community.

The ELI Beamlines facility is a joint investment of nearly €300m by the European Union and the Czech Republic. It forms part of the [pan-European ELI project](#), comprising nearly 40 research and academic institutions from 13 EU Member States, and aims to host the most intense lasers in the world. The facility,

based on four sites, will be the first large-scale research infrastructure based in the Central and Eastern European Member States of the EU and has obtained a financial commitment exceeding €700m.

The ELI project includes the construction of three other major new facilities: the [ELI-ALPS](#) facility, to be sited in Hungary, which will investigate natural phenomena on ultra-short timescales, and the [ELI-NP facility](#), to be sited in Romania, which will open up the new field of photonuclear physics. A fourth and more powerful laser will be constructed later,

drawing on the lessons learned from the three prototypes, in a location still to be decided.

Jorge Rivero González, e-EPS News

CERN AMONG THE HONOURS IN THE GENEVA INTER-COMPANY CROSS-COUNTRY RACE

On 12 October, members of the CERN Running Club were yet again among the medals at the 33rd Cross Inter-Entreprises de Genève.



From left to right: Clément, Bastien, Olivier, Cédric, Erik and Mika. Photo: Clément Bovet.

Teams comprising 3 to 4 runners from companies in the Geneva Canton competed in the [6-km race](#) through the Parc des Evaux in Onex.

*The other categories are “Women” and “Mixed”.

See more photos from the event:



Two of CERN’s teams made it into the medals in the Men’s category* - Cédric, Mika, Guillaume and Clément came second, closely followed by their colleagues Olivier, Erik and Bastien, in third.

The next and last event of the year for the members of the Running Club will be the [Escalade race](#), on 6-7 December.

Anais Schaeffer

PUBLIC PCS: LOG OUT OR LOSE OUT

Do you regularly use one of the public Windows or Linux terminals in the CERN library or in front of the Users' Office? Or do you often give presentations or run meetings, workshops or conferences? Did you recently attend a training session in the CERN Training Centre? If you answered at least once with "yes", we have a plea for you: LOG OUT when done in order to protect your data!

You might recall that CERN considers that "Your Privacy is Paramount". But this does not come for free. In the few past months, we have received several reports from vigilant people who have spotted open user sessions on public PCs at CERN. Those users simply forgot to log out once their work, training or meeting was over. Their session continued without them being present. Worse, with CERN using a central Single Sign-On (SSO) portal, their login credentials would allow a malicious person at CERN to use those credentials to access that user's mailbox, DFS files or EDH documents. Fortunately, no abuse has been reported so far. The aforementioned vigilant people were all kind enough to just silently log the users

out of their sessions.

Remember: log out from your web browser after you have downloaded a presentation from INDICO or EDMS using your CERN password on a conference PC. Log out from your Vido session at the end of your conference call. Log out from your PC at the end of your training session or (should the session continue into the next day) lock the screen with a password. Log out from the public PCs in the CERN library or in front of the Users' Office when you are done with your work. Consider rebooting the PC if you cannot log out for some reason. Finally, log out for your colleagues if you find them still logged

in. Please restrain your curiosity: attempting to misuse their credentials constitutes a direct violation of the CERN Computing Rules (OC5 III-15).

Check out our website: cern.ch/security for further information, answers to your questions and help, or write to Computer.Security@cern.ch.

If you want to learn more about computer security incidents and issues at CERN, just follow our Monthly Report: https://cern.ch/security/reports/en/monthly_reports.shtml

Computer Security Team



THURSDAY OCTOBER 31, 2013

- **11:00** Collider Cross Talk **LHCb results on CP violation in charmless B decays**
- **16:30** CERN Colloquium **Detection and Attribution of Climate Change: From global mean temperature change to climate extremes and high impact weather.** Council Chamber

FRIDAY NOVEMBER 01, 2013

- **08:30** Induction Sessions **INDUCTION PROGRAMME** - 1st Part 80-1-001

MONDAY NOVEMBER 04, 2013

- **08:00** CAS - CERN Accelerator School **Basics of Accelerator Science and Technology at CERN**
- **11:00** Academic Training Lecture Regular Programme **The Higgs Particle** (1/3) TH Conference Room

TUESDAY NOVEMBER 05, 2013

- **11:00** Academic Training Lecture Regular Programme **The Higgs Particle** (2/3) TH Conference Room
- **11:00** LHC Seminar **CP violation in charmless two-body B decays at LHCb** Council Chamber
- **14:00** TH String Theory Seminar **TBA** CERN TH Conference Room

WEDNESDAY NOVEMBER 06, 2013

- **08:00** Conferences & Workshops **CERN Theory Group Retreat**
- **11:00** Academic Training Lecture Regular Programme **The Higgs Particle** (3/3) TH Conference Room Thursday October 31, 2013



Take note

MOVE! EAT BETTER: TRY THE FIT FORMULA

In the physics world, some formulas lead to a Nobel prize. In the world of health and physical activity, the Medical Service also has a winning formula...

FIT (physical activity) = Frequency x Intensity x Time

Frequency = more than 3 times per week.

Intensity = physical activity which slightly increases your heart rate and breathing rate.

Time = more than 30 minutes (per session).

As part of our Move! Eat better campaign, the Medical Service is still offering the use of a pedometer (available on loan from the infirmary), which is a really useful tool to help you reach the winning FIT formula.

CERN Medical Service

WATCH OUT FOR THE LEAVES!

Now that autumn is here, dead leaves falling from the trees form a colourful carpet that is pleasing to the eye. However, the reality is less pleasant for pedestrians, since these leaves increase the risk of slipping and falling, especially when the ground is wet.

These conditions are also hazardous for two- and four-wheeled vehicles, whose grip on the ground can be severely reduced, thereby increasing the risk of them skidding out of control. Cyclists are among the most vulnerable road users when faced with these hazards. It is therefore essential to be alert to the dangers, which can be lessened by taking a few simple precautions such as moderating your speed and wearing suitable shoes.

We also invite you to notify the Service Desk if you notice a road or pavement where there is a high concentration of dead leaves. The CERN Roads and Drainage Service will then ensure that the leaves are cleared in order to reduce the risk of accidents in the area.

HSE Unit

TALK | WOMEN IN STEM - WHERE ARE WE NOW AND HOW CAN WE MOVE? | 4 NOVEMBER

"Women in science, technology, engineering and maths (STEM). Where are we now and how can we move?", by Jocelyn Bell Burnell.

Monday 4 November 2013, at 4.30 p.m.
Globe of Science and Innovation
Route de Meyrin, 1211 Genève

Conference organised by the CERN Diversity Programme.

English with French translation.

Jocelyn Bell Burnell is a Visiting Professor at the University of Oxford. In a career spanning over four decades, she has made outstanding contributions to astronomy, the public understanding of science, in particular advancing the role of women in science, and to the promotion of physics.

Working on a pioneering radio telescope as a graduate student in Cambridge in the 1960s, she made the observations that led to the discovery of pulsars. Subsequently she has performed roles in many branches of astronomy, working part-time while raising a family.

Bell Burnell is a well-known figure in the public understanding of science, giving over 40 public lectures each year and making regular appearances in the media. Her work in this area was recognised in 2010 through the award of the Royal Society's Michael Faraday prize. Increasing the number of women in science is particularly important to her, and she is an inspirational role model for young women considering a scientific career.

As President of the UK Royal Astronomical Society from 2002-2004, and President of the UK Institute of Physics from 2008-2010, and again in 2011, she has worked tirelessly to promote the value of physics in society. For this, she was made an Honorary Fellow of the Institute of Physics in 2012.

In her spare time she gardens, listens to choral music, collects poetry with an astronomical theme, and is active in the Quakers.

Free entrance
Limited number of seats - registration is essential
Reservation: +41 22 767 76 76 or [cern.reception@cern.ch](mailto:reception@cern.ch)

MARK THOMSON PRESENTS THE BOOK "MODERN PARTICLE PHYSICS"

Tuesday 5 November 2013 at 4 p.m.
in the Library, Bldg. 52 1-052

This new textbook covers all the main aspects of modern particle physics, providing a clear connection between the theory and recent experimental results, including the recent discovery of a Higgs boson and the most recent developments in neutrino physics. It provides a comprehensive and self-contained description of the Standard Model of particle physics suitable for upper-level undergraduate students and graduate students studying experimental particle physics. Physical theory is introduced in a relatively straightforward manner with step-by-step mathematical derivations. In each chapter, fully worked examples link the theory to central experimental results in contemporary particle physics.

Modern Particle Physics, by Mark Thomson, Cambridge University Press, 2013, ISBN 9781107034266.

Coffee will be served from 3:30 p.m.



SAFETY TRAINING: PLACES AVAILABLE IN NOVEMBER - DECEMBER 2013

There are places available in the forthcoming Safety courses. For updates and registrations, please refer to the Safety Training Catalogue: <https://cta.cern.ch/>

November - December 2013
(alphabetical order)

Conduite de chariots élévateurs (Driving of forklifts)

04-NOV-13 to 05-NOV-13, 8.30 – 17.30, in French with handouts in English

Conduite de plates-formes élévatrices mobiles de personnel (PEMP) (Driving of cherry-pickers)

09-DEC-13 to 10-DEC-13, 8.30 – 17.30, in French with handouts in English

Habilitation électrique personnel électricien basse tension (Electrical habilitation for electricians in low voltage)

30-OCT-13 to 01-NOV-13, 9.00 – 17.30, in English
04-NOV-13 to 06-NOV-13, 9.00 – 17.30, in English

Habilitation électrique personnel électricien basse et haute tensions (Electrical habilitation for electricians in low and high voltage)

16-DEC-13 to 19-DEC-13, 9.00 – 17.30, in French

Habilitation électrique personnel non électricien (Electrical habilitation for non electricians)

14-NOV-13 to 15-NOV-13, 9.00 – 17.30, in French

Laser Experts

09-DEC-13 to 10-DEC-13, 9.00 – 17.30, in English

Magnetic Fields

15-NOV-13, 9.00 – 11.30, in English

Pontier-élingueur (Driving crane)

12-DEC-13 to 13-DEC-13, 8.30 – 17.30, in French

Radiological Protection - Controlled Radiation Area - Course A for CERN employees and CERN associates

07-NOV-13, 8.30 – 17.00, in English
13-NOV-13, 8.30 – 17.00, in English
20-NOV-13, 8.30 – 17.00, in English
27-NOV-13, 8.30 – 17.00, in English
28-NOV-13, 8.30 – 17.00, in French
18-DEC-13, 8.30 – 17.00, in French

Recyclage - Pontier-élingueur (Refresher course for Driving crane)

28-NOV-13, 8.30 – 17.30, in French

Recyclage - Conduite de plates-formes élévatrices mobiles de personnel (PEMP) (Refresher course for Driving of cherry-pickers)

06-NOV-13, 8.30 – 17.30, in French
29-NOV-13, 8.30 – 17.30, in French

Recyclage - Habilitation électrique personnel électricien basse tension (Refresher course for

Electrical habilitation for electricians in low voltage)

07-NOV-13 to 08-NOV-13, 9.00 – 17.30, in English
12-NOV-13 to 13-NOV-13, 9.00 – 17.30, in English

Recyclage - Habilitation électrique personnel électricien basse et haute tensions (Refresher course for Electrical habilitation for electricians in low and high voltage)

04-NOV-13 to 05-NOV-13, 9.00 – 17.30, in French

Recyclage - Habilitation électrique personnel non électricien (Refresher course for Electrical habilitation for non electricians)

05-DEC-13, 9.00 – 17.30, in French
06-DEC-13, 9.00 – 17.30, in French
20-DEC-13, 9.00 – 17.30, in French

Refresher course Self-Rescue Mask Training

04-NOV-13, 8.30 – 10.00, in French
04-NOV-13, 10.30 – 12.00, in English
11-NOV-13, 8.30 – 10.00, in French
11-NOV-13, 10.30 – 12.00, in English
18-NOV-13, 8.30 – 10.00, in French
18-NOV-13, 10.30 – 12.00, in English
25-NOV-13, 8.30 – 10.00, in French
25-NOV-13, 10.30 – 12.00, in English
02-DEC-13, 8.30 – 10.00, in French
02-DEC-13, 10.30 – 12.00, in English
09-DEC-13, 8.30 – 10.00, in French
09-DEC-13, 10.30 – 12.00, in English
16-DEC-13, 8.30 – 10.00, in French
16-DEC-13, 10.30 – 12.00, in English

Risks associated with operations in confined spaces

26-NOV-13, 9.00 – 17.30, in French

Safety in cryogenics - level 1

26-NOV-13, 9.00 – 12.00, in English

Self-Rescue Mask Training

05-NOV-13, 10.30 – 12.00, in French
12-NOV-13, 10.30 – 12.00, in French
19-NOV-13, 10.30 – 12.00, in French
21-NOV-13, 10.30 – 12.00, in English
28-NOV-13, 10.30 – 12.00, in English
05-DEC-13, 10.30 – 12.00, in English
10-DEC-13, 10.30 – 12.00, in French
12-DEC-13, 10.30 – 12.00, in English
17-DEC-13, 10.30 – 12.00, in French

Use of fire extinguisher – live exercises

15-NOV-13, 10.30 – 12.30, in English
20-NOV-13, 10.30 – 12.30, in French
04-DEC-13, 10.30 – 12.30, in English
06-DEC-13, 10.30 – 12.30, in French
18-DEC-13, 10.30 – 12.30, in English

Working at heights - Using a harness to prevent falling from a height

13-NOV-13, 9.00 – 17.30, in French
26-NOV-13, 9.00 – 17.30, in English
27-NOV-13, 9.00 – 17.30, in English
17-DEC-13, 9.00 – 17.30, in French
18-DEC-13, 9.00 – 17.30, in English



LOCAL ADDRESS AND EMERGENCY CONTACT DETAILS

The HR Department would like to remind members of the personnel that they are responsible for ensuring that their personal data concerning local address and preferred emergency contact details remains valid and up-to-date.

Both are easily accessible via the links below:

- Local address: <https://edh.cern.ch/Document/Personnel/LocalAddressChange>
- Emergency contacts: <https://edh.cern.ch/Document/Personnel/EC>

Please take a few minutes to check your details and modify if necessary.

Thank you in advance.

HR Department Head Office