CERN Bulletin

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GROWING PAINS

Heat expands and cold contracts: it's a simple thermodynamic rule. But when temperatures swing from 300 K to near-absolute zero, this rule can mean a contraction of more than 80 metres across the LHC's 27-km-long cryogenic system. Keeping this growth in check are compensators (a.k.a. bellows), which shrink and stretch in response to thermodynamic changes. Leak tests and X-rays now underway in the tunnel have revealed that these "joints" might be suffering from growing pains…

This 25-µm weld crack is thought to be the cause of the helium leaks.

Prior to the LS1 warm-up, CERN's cryogenic experts knew of two points in the machine's cryogenic distribution system that were leaking helium. Fortunately, these leaks were sufficiently small, confined to known sub-sectors of the cryogenic line and – with help from the vacuum team (TE-VSC) – could easily be compensated for.

But as the machine warmed up for the Long Shutdown, the cryogenic team began to suspect that a more systemic problem was at work. "As the machine grew warmer, five similar leaks were reported from across the system," says Krzysztof Brodzinski, a member of the LHC Cryogenic Operation team in the Technology Department (TE-CRG). "In collaboration with our EN-MME partners we conducted X-rays of the sub-sectors where the original problems had been spotted. We discovered severe deformities in the compensators."

With the cause of these deformities still unclear, experts from the Engineering Department were called in to perform a metallurgical analysis of the deformed bellows. These investigations revealed a faulty weld with a 25-µm crack, which is the likely source of the supercritical helium leak between the compensator plies (see image over leaf). As the system warmed up, the

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OUR WORLD IS EVERYONE'S!

At the end of this month, CERN will embark on its most ambitious open day weekend to date, stretching the definition of the weekend to embrace four days from Friday to Monday.

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A word from the DG

(Continued from page 1)

OUR WORLD IS EVERYONE'S!

The first to benefit will be our industrial partners, who have a dedicated day to themselves on Friday to discover CERN's amazing world of technology, and the opportunities that await companies joining us on our adventure to explore the Universe. This transitions nicely into the European Researchers Night, an EU initiative that CERN has participated in for several years. This year, we're partnering with the Italian National Institute for Astrophysics (INAF), and teaming up with ESA, ESO, UNESCO and the Italian National Institute for Nuclear Physics (INFN) to present a multi-centred night of our Origins to celebrate the sciences of the infinitesimally small and the infinitely large. There will be webcast talks from a celestial range of speakers and opportunities for participants to speed-date a scientist for a discussion about science and technology.

The core of the weekend is, of course, our two public days during which visitors will be treated to a smorgasbord of activities spread between our Meyrin and Prévessin campuses, as well as at six points around the LHC ring. All in all, there will be some 41 visit points at which we'll be showcasing our prowess in science and technology. At Meyrin, people will get their first chance to see our new SynchroCyclotron visitor point, showcasing CERN's original particle accelerator. There will also be visits of other accelerators - and a decelerator and an international village where we'll be joined by our friends from other international organisations. At Prévessin, the AMS centre will be open, as will the CCC and experimental halls, and it's at Prévessin that one of our perennial favourites will be – the metrologists' stand. There will also be plenty to do at the sites around the LHC ring, including visits underground for those with tickets. At CMS, for example, visitors will have the chance to see a world première performance of Quantum, the new work by the award-winning Gilles Jobin, which brings together CERN's first two artists in residence as Jobin teams up with Julius von Bismarck.

If you're planning to come, please take a close look at the Open Days web pages to find your most convenient car park, since access to the CERN site by car will only be possible for people volunteering or working. Note also that some of the roads around CERN will be closed for safety reasons.

When it's all over, the final act will be a party for you, the CERN personnel, on Monday night at Prévessin with exceptional performances by the *Orchestre de la Suisse Romande* and the Alan Parsons Live Project. It promises to be a memorable weekend, and should be a lot of fun.

Open Days are vital for our engagement with our neighbours, and those who come from further afield, but they are a lot of work for many of us. To all those who have volunteered over the weekend, I'd like to say thanks! Let's make this a great event!

More information:
Open Days: www.cern.ch/opendays
Origins: www.origins2013.eu

Rolf Heuer

GROWING PAINS

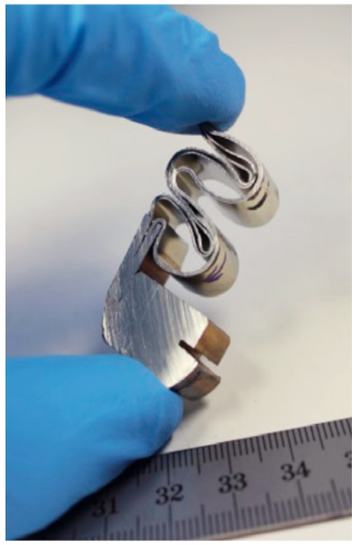
(Continued from page 1)

helium expanded, forcing its way through the walls of the bellows. "Although the warm-up of the LHC complex takes weeks, this is a very short time compared to the years of LHC operation during which helium was seeping into the bellows' inter-ply volume," explains Brodzinski. "The helium simply did not have enough time to escape back through the leak channel. While warming up, trapped helium expanded and damaged the remaining tight compensator plies."

With this mystery solved, the cryogenic team is now examining the scope of the problem. While seven leaks were clearly visible in the system, X-rays had uncovered an eighth deformed bellow that had not yet started leaking. "It was this case that resulted in the decision to X-ray all the compensators of the main cryogenic supply line, fixing damaged bellows before they present a problem," says Brodzinski. "While X-rays are still ongoing, the total count of faulty bellows remains at eight."

The damaged bellows will be replaced and tested by the end of February 2014. These replacements will incorporate a new weld design and an adapted testing procedure (developed in collaboration with TE-VSC) that should avoid any further deformities.

Katarina Anthony



The welded connection joins all plies and related flanges together. It is likely that helium leaks through this weld to enter the inter-ply volume.

LS1 REPORT: SHIELDING OPERATIONS

At the LHC, the SMACC project's consolidation train has just entered Sector 7-8, the third sector to be consolidated. It has moved on from Sector 6-7, which is now in the closure phase.

At the PS, 29 pillars have been installed as part of the accelerator's shielding reinforcement works.

This week saw the start of the replacement campaign for the compensators on the LHC's cryogenic distribution lines (QRL), involving all sectors of the machine. Nine compensators in total will be replaced between now and the end of the year (see the article in this week's Bulletin).

Operations are advancing very quickly on the R2E (radiation to electronics) project. At Point 1, for example, the teams have successfully managed to get several weeks ahead of the activity schedule.

Tests on the back-up electrical supply have also been completed. The diesel generators, designed to take over in the event of a failure of the main electrical supply, were put through their paces during a simulated power cut and passed with flying colours.

At the PS, the reinforcement work on the shielding above Septum 16 is progressing. All 29 pillars, more than 20 metres deep, have already been installed. Soon they will support 1,500 m^2 of shielding.

At the SPS, all of the shielding has been removed and the irradiated cable replacement campaign has already started.

Finally, at the PS Booster, removal of the beam line and its shielding was completed last week. The new beam line is being assembled and will be installed in the coming weeks.

CERN Bulletin

CURIOUS ABOUT HOW THE PENSION FUND IS SECURING YOUR FUTURE?

Transparency, accuracy and proximity to its members: in recent years the CERN Pension Fund has put a huge effort into creating clear procedures, defining and sharing its strategies, and making its information public. The latest addition is the publication of the Annual Investment Report on the Pension Fund website.

Are you curious about the investments made by the CERN and ESO Pension Fund? Do you want to locate the buildings belonging to the Fund? Or see how the Fund controls its risk level? Help is at hand: the Pension Fund has just released the Annual Investment Report (AIR) on its website. "The online AIR will be updated quarterly to include the latest investment performance of the Fund, shortly after the end of every quarter," says Théodore Economou, the Pension Fund's Chief Executive Officer. "This is a significant improvement in the frequency of distribution of information regarding investments. Until now, stakeholders had to wait for the publication of the financial statements, which occurs only once a year."

"This improvement was made possible by the 2012 implementation of a single master custodian structure, where all assets are now held by a single independent custodian. Therefore we are now able to get daily, monthly and quarterly investment performance figures," he explains.

The online AIR presents in a concise format the Fund's performance versus its objectives, risk compliance and asset allocation, as well as its real-estate portfolio. The report also includes the investment mandate, the compliance framework and the risk management process. "The publication of

the AIR reflects industry best practice in our category of defined-benefit pension plans and is in line with the Fund's strategy to properly inform its stakeholders," says Théodore Economou.

If you are a fan of figures and percentages or are simply curious about the location and surface areas of the apartments or the number of hectares of woodland the Fund owns, visit the Pension Fund website to access the 2013 AIR (2nd quarter) Visit : pensionfund.cern.ch

Antonella Del Rosso

SCIENCE STAND-UP AT CERN

Supported by host Helen Keen from BBC4's "It is Rocket Science", six amateur performers from CERN (Sam Gregson, Alex Brown, Benjamin Frisch, Claire Lee, Hugo Day and Clara Nellist) were joined on stage by geek-pop sensation Jonny Berliner and comedians Pierre Novellie and Lieven Scheire for a night of science stand-up comedy.

Host Helen Keen starts off the comedy event. (Image: Piotr Traczyk).

Like the genesis of most great things, the LHComedy event began as an idea. Sam Gregson, a PhD student at CERN, had been a regular at the Cambridge Bright Club. This public engagement event promotes scientists' research through stand-up comedy. Sam thought, "If people came to watch Bright Club at Cambridge and enjoyed the research, why can't we do it at the biggest scientific experiment in the world?"

Sam's idea gained momentum after being introduced to FameLab participants at CERN. Similar to Bright Club, FameLab is a competition launched by the British Council in which scientists have three minutes to explain a scientific topic in an accurate and entertaining way. It just so happened that CERN's FameLab participants had recently returned from a science communication training camp. Enthused by the workshop, CERN physicists like Claire Lee were keen to try stand-up comedy.

"We are used to standing up in front of an audience and talking, but not trying to be funny at the same time!" says Claire. Although nervous, she claims, "People want to see you succeed." It was an experimental event for CERN and the amateur comedians, but the night was a success. Tickets sold out quickly and almost 10,000 webcast viewers stayed in on a Friday night to watch the world of physics collide with comedy.

The event proves that comedy is a successful medium for science communication: "People who probably wouldn't have watched a scientific lecture watched because it was comedy," says Claire.

PhD student Clara Nellist rehearses lines backstage. (Image: Piotr Traczyk).

This is partially due to physics gaining acceptance in popular culture with shows like The Big Bang Theory and the BBC's The Infinite Monkey Cage. "Science is becoming more sexy at the moment," says Sam. "People are really interested in it and the event just hit that sweet spot." He was right. The LHComedy: "CERN After Dark" event was the most watched CERN webcast since the Higgs Discovery.

CERN and the British Council, which supported the event, were both impressed. Caroline Morrissey from the British Council says, "FameLab has clearly launched some dormant stand-up talents! Humour with a generous twist of science provided a superb evening's entertainment - which demonstrated that what happens at CERN needn't be all Geek to the uninitiated."

Sam couldn't be happier with how well the event went: "I just can't thank the people who helped enough. Thank you to the people who had the guts to get on stage and present their research, to the people from the CERN Press Office, and to the staff in the background who made the event possible. It just goes to show that science and comedy do work really well together."

Stephanie McClellan

CAS COURSE ON ADVANCED ACCELERATOR PHYSICS IN TRONDHEIM, NORWAY

The CERN Accelerator School (CAS) and the Norwegian University of Science and Technology (NTNU) recently organised a course on advanced accelerator physics. The course was held in Trondheim, Norway, from 18 to 29 August 2013. Accommodation and lectures were at the Hotel Britannia and practical courses were held at the university.

The course's format included lectures in the mornings and practical courses in the afternoons. The lecture programme consisted of 32 lectures supplemented by discussion sessions, private study and tutorials. The practical courses provided "hands-on" experience in three topics: RF measurement techniques, beam instrumentation and diagnostics, and optics design and corrections. Participants selected one of the three courses and followed the chosen topic throughout the course. The programme concluded with seminars and a poster session.

70 students representing 21 nationalities were selected from over 90 applicants, with most participants coming from European countries, and a few from overseas. Feedback from the participants was very positive, reflecting the high standard of the lectures and teaching.

The school was sponsored by CERN, NTNU, the Norwegian Research Organisation and Radiabeam Technologies - to all of whom CAS is very grateful. NTNU also provided excellent facilities and invaluable support for the highly technical courses, which are a key feature of the advanced school.

Forthcoming CAS courses include "Power Converters" (in Switzerland, in May 2014) and an "Introduction to Accelerator Physics" (in the Czech Republic, in September 2014). More information is available on the CAS website : www.cern.ch/schools/CAS

CERN Accelerator School

NEW ARRIVALS

On Tuesday 10 September 2013, recently-recruited staff members and fellows participated in a session in the framework of the Induction Programme.

HR Department

BATON TWIRLING ON AN INTERNATIONAL STAGE

There aren't many people who can throw a baton in the air, do a backhand spring and catch it with the grace of a dancer. Well, Julie Haffner from the CERN Press Office can. Baton twirling started as her hobby but soon became a passion - leading her team to win the International Baton Twirling Cup.

Gex Twirling Club performing their winning number at the 2013 International Baton Twirling Cup. (Image: Véronique Bellour).

Gex Twirling Club in first place at the Baton Twirling International Cup 11 August 2013. (Image: Véronique Bellour).

There is no telling when or where people will find their passion. For Julie Haffner, it was when she followed her cousin to a baton twirling class at the age of 10. Since that fortuitous day, she has committed herself to the sport and competed on international stages.

Very close to rhythmic gymnastics, baton twirling requires skilful coordination and teamwork. Julie's performances combine the precision of baton manipulation, the grace of a dancer and the strength of a gymnast. The first year in which she competed with the Gex Twirling Club, her team managed to reach the final of the French Championship. This taste of success motivated Julie to continue with the sport: "You have to learn to fight and gain a competitive spirit."

In 2005, her team came first at the French Championship and third at the European Baton Twirling Cup. She attributes the success to her cohesive team: "You are always with the same girls, so it's like a family." They do the same choreography for a year, so they have to be persistent and work together.

This past summer, Julie and her team came sixth at the French Championship. This could have hurt their chances for the International Cup selections, but, in the end, they were selected by the French judges on the basis of video footage. Teams were judged on their synchronisation, showmanship and technical execution, and despite having come sixth, Julie's team was chosen along with two others to represent France at the International Cup. That was a good decision, because not only did they beat the two other French teams, they also won first place.

This was a highlight of her baton-twirling career. She had the rare opportunity to represent her country knowing that she had worked hard to achieve that honour: "It's more important to be happy with what you have done than where you come in the competition."

Julie continues to train in baton twirling and to compete with her team. At the age of 22, she is one of the oldest girls, and trains with others as young as 15: "It's really hard to stop! People who find their passion are really lucky."

When asked how twirling baton and competing at an international level have shaped who she is, Julie claims that she wouldn't be the same without it: "Thanks to this sport, I have learned that you really need to fight for what you want."

Stephanie McClellan

PHILIPPE DEFERT (1954 - 2013)

Many of us have been deeply saddened by the early passing away of Phil Defert following a short period of illness. He impressed all of us by being passionate about everything he did.

One of his passions was open-source software; in the 1990s he wrote ASIS (the Application Software Installation Service), a system that built and distributed open-source applications for all UNIX-like platforms in use at CERN. ASIS was so successful that it was used at many other institutes, even outside High Energy Physics. Later he played a key role in introducing Linux at CERN and kept pushing for open-source solutions ever since.

Phil was also very passionate about helping people. Whenever he realised that somebody was in need, he was willing and available, caring sincerely and respectfully. He was always approachable and enjoyed discussions, in particular with different views, always trying to move things forward by learning from them. His enthusiasm for helping people made him a very natural and active member of the Executive Committee of the Staff Association.

For Phil, being passionate also meant never surrendering when pursuing something he was convinced of. His determination and energy motivated many followers, in particular young people.

Philippe was also an active member of the CERN scuba club, where for many years he organised regular trips to south of France and Spain. He was always ready for a laugh and a joke, a keen diver and a provider of many hilarious moments during all outings. His enthusiasm, and his welcoming and caring attitude, were very much appreciated by all of us. His loss is even more devastating, as we will always miss his fun loving and generosity.

We are grateful for the time spent with him and will remember him.

His friends and colleagues

We are deeply saddened to announce the death of Mr Philippe Defert on 11 September 2013. Mr Philippe Defert, who was born on 6 April 1954, worked in the IT Department and had been at CERN since 16 October 1987.

The Director-General has sent a message of condolence to his family on behalf of the CERN personnel.

Social Affairs
Human Resources Department

Computer Security

DON'T TEMPT ME!

Over your CERN career, have you ever changed activities, functions or responsibilities, but nevertheless kept the access to your "old" control systems or computing services? Accessing the systems for which you are no longer responsible seems innocent enough, because you just want to help by using your previous work and experience but… Does this sound familiar to you? Let's think this one through because it may have bad consequences.

In my previous life, I worked as a software developer and system expert for the "Detector Safety System", a control system used in the LHC experiments. After this system had been deployed and the project moved into maintenance mode, I was assigned new responsibilities which finally led me to the CERN Computer Security Team. My system was now in the care of a new team of excellent people. However, as my experience of the Detector Safety System didn't just disappear, I was kept on their expert list with all the access permissions needed. I was honoured by this, as I felt valued and needed. But with time, the fact that I still had access was forgotten. Meanwhile, I began to feel more and more uncomfortable: the system changed over time, the software was adapted, and additional requirements and hardware were added. What would have happened if I had called in and screwed up? In the end, I arranged for all of my access rights to be revoked…

But wasn't it tempting? The more access, the better! I could have used my access to copy (parts of) my code and re-used it in another project; I could have accessed the PCs to conduct tests which can only be run on live systems; I could have been malicious and prevented the LHC experiments from working. Ergo, the more access, the WORSE(*)! If I had misused my access to those systems or software, and if I had screwed up, I am pretty sure that would have been considered a professional fault!

So please, do not tempt me or any of our colleagues! If you manage a service, system or software and want to be on the safe side, make sure that you have procedures in place on how to deal with the access rights of people leaving your team and then apply them! This is less of a question of your trust in them, but rather an act of due diligence: in the end it is you who bears the burden when problems happen. It might be your professional fault!

We are interested in your opinion! Please write to us at **Computer.Security@cern.ch**.

Check our website for further information, answers to your questions or help.

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**

** Note that this is also the reason why you ought to handle your password like your toothbrush: don't share it! Otherwise, you might tempt others…*

Access the entire collection of Computer Security articles : **https://cdsweb.cern.ch/**

Stefan Lueders, Computer Security Team

Official news

ELECTIONS TO THE SENIOR STAFF ADVISORY COMMITTEE ("THE NINE") 2013

The electronic voting process for the Senior Staff Advisory Committee ("The Nine") was closed on **Thursday, 29 August 2013 at 18.00.**

Of the 503 Senior Staff members eligible to vote, 316 voted. This represents a participation of 63%, compared to 61% in 2012, 43% in 2011, 44% in 2010, 57% in 2009, 53% in 2008, 63% in 2007, 64% in 2006 and 66% in 2005. The results are:

Electoral group 1 (Research Physicists)

Candidate	Dept	Votes	Result
Augusto CECCUCCI	**PH**	**157**	**ELECTED**

Electoral group 2 (Applied Physicists, Engineers, Computer Scientists)

Candidate	Dept	Votes	Result
Ronny BILLEN	BE	32	
Johan BREMER	TE	35	
Katy FORAZ	EN	51	
Malika MEDDAHI	**TE**	**72**	**ELECTED**
Pierre NININ	GS	10	
Thomas OTTO	TE	15	
Sandro PALESTINI	PH	17	
Christoph REMBSER	PH	54	
Thierry STORA	EN	13	

Electoral group 3 (Administration, Human Resources, Finance and Purchasing)

Candidate	Dept	Votes	Results
Giovanni ANELLI	**FP**	**83**	**ELECTED**
Pierre GILDEMYN	HR	64	
Jean-Marie LE GOFF	FP	23	
Erwin VAN HOVE	FP	42	

The elected persons are **Giovanni Anelli, Augusto Ceccucci** and **Malika Meddahi** respectively for Electoral Groups 1, 2, and 3. Their mandate is from September 2013 to August 2016.

The Committee will now consist of these newly elected members together with Michael Benedikt (BE), François Duval (EN), Angela Goehring-Crinon (DGS), Marcello Mannelli (PH), Tim Smith (IT) and Jean-Philippe Tock (TE).

My sincere congratulations to all the new elected members. I would also like to thank all other candidates for standing for election, as well as Alberto Pace, the polling officer.

Jean-Philippe Tock, spokesperson of the "Nine"

Technical training

If you would like more information on a course, or for any other inquiry/suggestions, please contact **Technical.Training@cern.ch**.

Eva Stern and Elise Romero, Technical Training Administration (Tél : 74924)

»Electronics design

	Next Session	Duration	Language	Availability
Altium Designer - Saisie de Schemas	17-Oct-13 to 18-Oct-13	2 days	French	6 places available
Altium Designer: PCB Specialist (Advanced)	25-Sep-13 to 27-Sep-13	3 days	English	5 places available
Comprehensive VHDL for FPGA Design	14-Oct-13 to 18-Oct-13	5 days	English	5 places available
Expert VHDL for FPGA Design	25-Nov-13 to 29-Nov-13	5 days	English	3 places available
LabVIEW for beginners	27-Nov-13 to 29-Nov-13	3 days	English	5 places available
S7 - Distributed Safety	21-Oct-13 to 23-Oct-13	3 days	French	One more place available

»Mechanical design

	Next Session	Duration	Language	Availability
ANSYS - Introduction to ANSYS Mechanical APDL	04-Feb-14 to 07-Feb-14	4 days	English	7 places available
ANSYS CFX.	02-Dec-13 to 05-Dec-13	4 days	English	8 places available
ANSYS Emag	15-Oct-13 to 16-Oct-13	2 days	English	5 places available
ANSYS Workbench advanced	22-Oct-13 to 25-Oct-13	4 days	English	6 places available
ANSYS: Introduction to ANSYS Workbench Mechanical	01-Oct-13 to 04-Oct-13	4 days	English	7 places available
Applications de la cotation fonctionnelle et du langage ISO	20-Nov-13 to 22-Nov-13	2 days 4 hours	French	4 places available
AutoCAD Electrical	14-Oct-13 to 18-Oct-13	5 days	French	No more places available
CATIA V5 – Surface	13-Jan-14 to 14-Jan-14	2 days	French	6 places available
CATIA-Smarteam Basics	16-Sep-13 to 11-Oct-13	10 days	English	No more places available
SmarTeam - CATIA data manager at CERN	23-Sep-13 to 25-Sep-13	3 days	French	2 places available

»Office software

	Next Session	Duration	Language	Availability
CERN EDMS - Introduction	18-sept-13	8 hours	French	3 places available
ECDL: European Computing Driving Licence Certification	10-oct-13	3 hours	French	One more place available
EXCEL 2010 - Level 2: ECDL	16-Sep-13 to 17-Sep-13	2 days	French	5 places available
EXCEL 2010 - level 1 : ECDL	07-Oct-13 to 08-Oct-13	2 days	French	4 places available
Expression Web - Level 1	26-Sep-13 to 27-Sep-13	2 days	English	4 places available
Expression Web - Level 2	17-Oct-13 to 18-Oct-13	2 days	French	5 places available
Lync – click to call and collaborate with others	25-nov-13	1 hour	French	56 places available
MS Project	22-Nov-13 to 29-Nov-13	12 hours	French	2 places available
PowerPoint 2010 - Level 1: ECDL	10-Oct-13 to 11-Oct-13	2 days	French	5 places available
Sharepoint Collaboration Workspace - Level 1	30-Sep-13 to 01-Oct-13	2 days	French	2 places available

»Software and system technologies

	Next Session	Duration	Language	Availability
Agile Project Management with Scrum	24-Sep-13 to 25-Sep-13	2 days	English	2 places available
C++ Part 2: Object-Oriented	11-Nov-13 to 13-Nov-13	3 days	English	2 places available
Drupal Site Editing	03-Oct-13 to 04-Oct-13	2 days	English	5 places available
Embedded C++	09-Dec-13 to 10-Dec-13	2 days	English	7 places available
Hadoop for Developers	02-Dec-13 to 06-Dec-13	40 hours	English	6 places available
Intermediate Linux System Administration	23-Oct-13 to 29-Oct-13	5 days	English	8 places available
JAVA - Level 1	07-Oct-13 to 09-Oct-13	24 hours	English	5 places available
PERL 5 - Advanced Aspects	20-sept-13	1 day	English	6 places available
Project Development using Python	04-Nov-13 to 07-Nov-13	4 days	English	7 places available
Python: Advanced Hands-On	14-Oct-13 to 17-Oct-13	4 days	English	4 places available

»Special

	Next Session	Duration	Language	Availability
CST PARTICLE STUDIO	08-Oct-13 to 09-Oct-13	2 days	English	2 places available
Designing effective websites	23-Sep-13 to 24-Sep-13	2 days	English	4 places available
Web Usability	25-Nov-13 to 26-Nov-13	2 days	English	4 places available

Training & Development

SAFETY TRAINING: PLACES AVAILABLE IN SEPTEMBER 2013

There are places available in the forthcoming Safety courses. For updates and registrations, please refer to the Safety Training Catalogue.

September 2013 (alphabetical order)

Conduite de plates-formes élévatrices mobiles de personnel (PEMP) (Cherry-picker driving)
12-SEP-13 au 13-SEP-13, 8.30 – 17.30, in French with handouts in English

Ergonomics - Applying ergonomic principles in the workplace
19-SEP-13, 9.00 – 12.00, in French

Être TSO au CERN (Being TSO at CERN)
10-SEP-13 to 12-SEP-13, 8.30 – 17.30, in French

Habilitation ATEX - niveau 2 (ATEX habilitation - level 2)
19-SEP-13 to 20-SEP-13, 9.00 – 17.30, in French

Habilitation électrique personnel électricien basse tension (electrical habilitation for electricians in low voltage)
11-SEP-13 to 13-SEP-13, 9.00 – 17.30, in English
23-SEP-13 to 25-SEP-13, 9.00 – 17.30, in French

Habilitation électrique personnel non électricien (electrical habilitation for non electricians)
19-SEP-13 to 20-SEP-13, 9.00 – 17.30, in French (1.5 day)

Habilitation électrique personnel réalisant des essais en laboratoire ou en plate-forme d'essai (electrical habilitation for persons who perform tests in laboratory or on test platform at low and high voltage)
16-SEP-13 to 18-SEP-13, 9.00 – 17.30, in French
18-SEP-13 to 20-SEP-13, 9.00 – 17.30, in English

Magnetic Fields
13-SEP-13, 9.00 – 11.30, in French

Radiological Protection - Controlled Radiation Area - Course A for CERN employees and CERN associates
10-SEP-13, 8.30 – 17.00, in English
11-SEP-13, 8.30 – 17.00, in English
16-SEP-13, 8.30 – 17.00, in French

Recyclage – Conduite de plates-formes élévatrices mobiles de personnel (PEMP) (refresher course for Cherry-picker driving)
23-SEP-13, 8.30 – 17.30, in French with handouts in English

Recyclage - Habilitation électrique personnel électricien basse et haute tensions (refresher course for electrical habilitation for electricians in low and high voltage)
16-SEP-13 to 17-SEP-13, 9.00 – 17.30, in English

Recyclage – Habilitation électrique personnel électricien basse tension (refresher course for electrical habilitation for electricians in low voltage)
09-SEP-13 to 10-SEP-13, 9.00 – 17.30, in English (1.5 day)

Recyclage - Habilitation électrique personnel non électricien (refresher course for electrical habilitation for non electricians)
26-SEP-13, 9.00 – 17.30, in French
27-SEP-13, 9.00 – 17.30, in French

Recyclage – Pontier-élingueur (refresher course for crane driving)
24-SEP-13, 8.30 – 17.30, in French with handouts in English

Refresher course Self-Rescue Mask Training
02-SEP-13, 8.30 – 10.30, in French
02-SEP-13, 10.30 – 12.30, in English
16-SEP-13, 8.30 – 10.30, in French
16-SEP-13, 10.30 – 12.30, in English
23-SEP-13, 8.30 – 10.30, in English
23-SEP-13, 10.30 – 12.30, in French
30-SEP-13, 8.30 – 10.30, in French
30-SEP-13, 10.30 – 12.30, in English

Safety in cryogenics - level 1
17-SEP-13, 9.00 – 12.00, in French

Self-Rescue Mask Training
03-SEP-13, 8.30 – 10.30, in English
03-SEP-13, 10.30 – 12.30, in French
03-SEP-13, 14.00 – 16.00, in English
10-SEP-13, 10.30 – 12.30, in French
17-SEP-13, 10.30 – 12.30, in French
19-SEP-13, 10.30 – 12.30, in English
24-SEP-13, 10.30 – 12.30, in French
26-SEP-13, 10.30 – 12.30, in English

Use of fire extinguisher – live exercises
04-SEP-13, 10.30 – 12.30, in English
11-SEP-13, 14.00 – 16.00, in English
13-SEP-13, 14.00 – 16.00, in French
18-SEP-13, 10.30 – 12.30, in English
20-SEP-13, 10.30 – 12.30, in French
25-SEP-13, 10.30 – 12.30, in English

Use of Respiratory Protective Equipment
12-SEP-13, 8.30 – 12.00, in French

Working at heights - Using a harness to prevent falling from a height
24-SEP-13, 9.00 – 17.30, in English

Isabelle Cusato, HSE Unit

LANGUAGE COURSES

General and Professional French Courses:
The next session will take place from 7 October to 13 December 2013.
These courses are open to all persons working on the CERN site, and to their spouses.

Oral Expression:
This course is aimed for students with a good knowledge of French who want to enhance their speaking skills.
Speaking activities will include discussions, meeting simulations, role-plays etc.
The next session will take place from 7 October to 13 December 2013.

Writing professional documents in French:
These courses are designed for non-French speakers with a very good standard of spoken French.
The next session will take place from 7 October to 13 December 2013.

Cours d'anglais général et professionnel:
La prochaine session se déroulera du 7 octobre 2013 au 31 janvier 2014 (interruption à Noël).
Ces cours s'adressent à toute personne travaillant au CERN ainsi qu'à leur conjoint.

Oral Expression:
From 7 October 2013 to 31 January 2014 (with break at Christmas).
This course is intended for people with a good knowledge of English who want to enhance their speaking skills.
There will be on average of 8 participants in a class.
Speaking activities will include discussions, meeting simulations, role-plays etc. depending on the needs of the students.

Writing Professional Documents in English - Administrative
Writing Professional Documents in English – Technical:
The next sessions will take place from 7 October 2013 to 31 January 2014 (with break at Christmas).
These courses are designed for people with a good level of spoken English who wish to improve their writing skills.
There will be an average of 8 participants in a class.

For registration and further information on the courses, please consult our web pages or contact Kerstin Fuhrmeister: 70896 - **language.training@cern.ch**.

Take note

RESULTS OF THE 24 JULY BLOOD DONATION

"Bravo! A huge success! A big thanks to everyone involved for their valuable participation this summer," says Ms. Troillet, the nurse responsible for the Transfusion Centre (CTS) at HUG.

During the 24 July blood donation, blood was collected from 109 of the 150 people who attended (including 53 new donors). This excellent result is particularly noteworthy, since blood supplies are at their lowest levels in hospitals during the summer season.

The CERN Medical Service joins CTS in thanking all donors for their generous gesture and Ms. Vuattaz, manager of the restaurant NOVAE No. 2 and her team, for their collaboration.

Upcoming blood donations:

- Wednesday 16 October 2013
- Thursday 3 April 2014
- Wednesday 23 July 23 2014

Medical Service

OPEN DAYS: INFORMATION ON CERN PARKING

The organising team for the Open Days (28-29 September) would like to inform you that some parking sites in Meyrin and Prévessin will have to be kept free as of 18 September for the installation of tents and marquees.

Next week, CERN Management will address parking concerns and give you more information on other parking possibilities.

The Open Day organising team thanks you for your cooperation and apologises for any inconvenience.

SAFETY BULLETIN 2013-1

The HSE Unit has just released the Safety Bulletin 2013-1 entitled "When the alarm rings, you must leave!".

The Bulletin is available on EDMS under the following number: 1307611. Be reminded that HSE Safety Bulletins are published in English and French and share feedback on incidents/nearmiss/accidents on the CERN site with the aim of improving prevention.

HSE Unit

2013 CERN ROAD RACE

The 2013 annual CERN Road Race will be held on Wednesday 18 September at 6.15 p.m.

The 5.5 km race takes place over 3 laps of a 1.8 km circuit in the West Area of the Meyrin site, and is open to everyone working at CERN and their families. There are runners of all speeds, with times ranging from under 17 to over 34 minutes, and the race is run on a handicap basis, by staggering the starting times so that (in theory) all runners finish together.

Children (< 15 years) have their own race over 1 lap of 1.8 km. As usual, there will be a "best family" challenge (judged on best parent and best child).

Trophies are awarded in the usual men's, women's and veterans' categories, and there is a challenge for the best age/performance.

Every adult will receive a souvenir prize, financed by a registration fee of 10 CHF. Children enter free (each child will receive a medal).

More information, and the online entry form, can be found : **https://espace.cern.ch/Running-Club/CERNRoadRace/default.aspx**.

Klaus Hanke

Seminars

THURSDAY SEPTEMBER 19, 2013

- **14:00** TH BSM Forum **LHC phenomenology of a PGB-Higgs** TH common room
- **14:15** A&T Seminar **Fast Automatic Beam-Based Alignment of the LHC Collimator Jaws** Main Auditorium
- **15:30** Computing Seminar **Next generation hyper-scale software and hardware systems for big data analytics** IT Amphitheatre
- **16:30** CERN Colloquium **Concrete Quarks: The Beginning of the End** Main Auditorium

MONDAY SEPTEMBER 23, 2013

- **14:00** TH Journal Club on String Theory **"Solving 2D QCD with an adjoint fermion analytically" by Katz, Tavares, Xu** (1308.4980) TH Common Room

TUESDAY SEPTEMBER 24, 2013

- **10:00** TH String Theory Seminar **TBA** TH Conference Room

WEDNESDAY SEPTEMBER 25, 2013

- **11:30** TH Cosmo Coffee **TBA**

THURSDAY SEPTEMBER 26, 2013

- **09:00** Technical Seminar **16eme Forum Utilisateurs CATIA au CERN Kjell Johnsen** Auditorium
- **11:00** Collider Cross Talk **[TBA]** TH common room
- **14:00** TH BSM Forum **Implications of the Higgs discovery for Dark Matter** TH common room

TUESDAY OCTOBER 01, 2013

- **11:00** Computing Seminar **Kalray Kjell Johnsen** Auditorium
- **11:00** EP Seminar **Results on neutrinoless double beta decay from GERDA phase I** Council Chamber
- **14:00** TH String Theory Seminar **TBA** TH Conference Room