

DON'T CALL IT A CLOSURE!

During the Laboratory's annual closure, some members of the personnel joined their families, others seized the chance to travel the world. The Restaurants were closed, the corridors were dark and the heating was turned off in most of the buildings. However, a lot of people spent the Christmas break working on site and the Bulletin would like to dedicate this first article of the new year to them all!



In the CERN Control Centre (CCC), each shift had two people in position to guarantee regular 24/7 service and to intervene in case of need. Gildas Langlois and Rodolphe Maillet, CCC operators from the Beams Department, spent Christmas Eve there and celebrated it with a cake. "I volunteered to work during the holidays in order to allow colleagues to stay with their families," says Maillet. On New Year's Eve, it was Julien Pache and Jean-Michel Nonglaton's turn to spend the night at work. They had a nice dinner with a CCC-made fondue and some dessert. "Anne-Laure Bourachot, a fire detection piquet whose husband was working in Access Control, and Guy Crockford, who was on the afternoon shift, joined us for the dinner," says Pache.

For the Fire Brigade, nothing really changed but the workload. "We use this calmness to do some longer training sessions and some maintenance that we can't normally do the rest of the year," explains Stephane Wiand of the Fire Brigade. "According to tradition, to mark the festivities we decided some weeks in advance who was going to cook each day of the break so that we tasted specialties from the different countries of our colleagues."

At Point 5, the giant CMS detector wasn't left alone during the break - someone looked after it every day. "Before Christmas we always bring the detector to a safe state which allows us to keep it unattended for most of the day," explains Wolfram Zeuner, CMS Deputy Technical Coordinator. "However, when it

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SPOILERS! IT'S LHC SEASON 2

2015: the year we begin the LHC's second run, and UNESCO's International Year of Light. For CERN, these will be the defining themes of the year. When it comes to LHC Run 2, the reasons are clear, and despite the title of this article, it is not within my power to predict what new discoveries may come our way. For the International Year of Light, however, I think I can safely make some predictions.

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A word from the DG

SPOILERS! IT'S LHC SEASON 2

After two years of work, which have been well documented in the pages of the CERN Bulletin, the LHC is well on schedule for the first beams of Run 2 to be circulating in March, with high-energy collisions following in May. By Christmas, the whole machine was at liquid helium temperature, one full sector had been power tested to the equivalent of 13 TeV, and beams had been sent along the transfer lines to knock at the LHC's door. It promises to be an exciting time, not only for the discovery potential that the extra energy brings, but also for the precision that more data will bring as we further investigate physics such as the Brout-Englert-Higgs mechanism.

At first sight, the International Year of Light may not seem to have very much relevance to CERN, but we are concerned in two very different but equally important ways. Firstly, light beams are not the only ones that carry the property of brilliance: luminosity is also the domain of particle beams and the High Luminosity project is the long-term future of the LHC. This year, an important European Commission-funded component of that project, HiLumi LHC, reaches its conclusion and the project moves on to its implementation phase. In October, we'll be celebrating that milestone. The other important link we have with the International Year of Light is CESSAMag,

another European Commission-supported project, through which CERN is overseeing the construction of the main ring for the SESAME laboratory in Jordan. That project, I'm pleased to say, is also on course, and we will be delivering the main ring components to SESAME later this year, with a view to commissioning in 2016.

Spoilers? Not really, and as many commentators have already pointed out, spoilers don't really spoil anything. They merely serve to whet the appetite, and in 2015, we're in for a feast.

Rolf Heuer

DON'T CALL IT A CLOSURE!

comes to safety, nothing replaces the human eye. For this reason, a team of two volunteers once a day walked all around for about an hour, passing several stations and writing a report of what they found. In case of problems, intervening quickly reduces the danger of severe damage."

The ATLAS detector was safely locked up for the holidays but Denis Demazio, who takes care of the performance of some of the ATLAS trigger software, worked on site the first two days of the closure. "As the cafeteria was closed, one of the bigger problems was finding food, so I had to go to the petrol station outside CERN,"

explains Damazio, a detour that led him past the Globe, where some disappointed tourists learned they would have to reschedule their trip to the Laboratory.

Obviously computers were not shut down during Christmas and a few people had to look after their performance. Mohammed Daoudi, System Administrator for the IT Department, is one of them. Luckily, the type of work allowed him to work from home. "I am part of a team of eight people, but only two of us were working during the holidays, one per week," says Mohammed. "I worked from home in the mornings and I was on call in the afternoons.

During this time, I received only one call and I was able to solve the problem remotely, so I didn't have to come on site."

Many more services, including the eight security guards at the B and Preessin entrances, were indeed as active as always during the Christmas period (we can't call it a "break" for them!). We obviously couldn't reach everyone who worked during the closure, but we would still like to pay homage to each of them and wish all of our readers a very happy New Year!

Rosaria Marraffino

LS1 TO LHC REPORT: LHC KEY HANDED BACK TO OPERATIONS

After 23 months of hard work involving about 1000 people every day, the key to the LHC was symbolically handed back to the Operations team. The first long shutdown is over and the machine is getting ready for a restart that will bring its beam to full energy in early spring.

All the departments, all the machines and all the experimental areas were involved in the first long shutdown of the LHC that began in February 2013. Over the last two years, the Bulletin has closely followed all the work and achievements that had been carefully included

in the complex general schedule drawn up and managed by the team led by Katy Foraz from the Engineering Department. "The work on the schedule began two years before the start of LS1 and one of the first things we realised was that there was no commercial software

capable of dealing with the complexity of LS1," she recalls. "The solution we found consisted of splitting the whole project into many subprojects. I then did some coding to compile all the information into a single file. For LS2, we are working on replacing this cumbersome procedure with an ad-hoc CERN-made piece of software that extracts information from the IMPACT database." PlanBook, the new software, will return information about the different activities, their safety requirements

(Continued from page 1)



Katy Foraz, LS1 activities coordinator, symbolically hands the LHC key to the operations team, represented, left to right, by Jorg Wenninger, Mike Lamont and Mirko Pojer.

and the technical constraints that determine the access rights to the various zones of the tunnel.

While the planning experts are already working hard on the LS2 schedule (which already includes activities related to the HL-LHC and LIU projects), the Operations team and system experts are busy re-commissioning the machine after the major "surgery" of LS1. "Our principal goal for 2015 is to safely deliver a reasonable amount of luminosity at a beam energy of 6.5 TeV," says Mike Lamont, Operations Group leader. "Operationally, the

LHC is not a new machine. The teams involved are carrying considerable experience forward. However they will face both familiar and new challenges and there is a lot of work and a number of milestones to be passed over the next few months on the way to significant collision rates at 6.5 TeV."

The first of these is the qualification of all magnet circuits for operation at the 6.5 TeV level. One of the principal hurdles here is the need to train the superconducting dipoles to their 6.5 TeV current level. Training involves ramping up the main dipole circuit of a given sector until a quench (a transition to the resistive state) of a single dipole occurs. The Quench Protection System swings in action, energy is extracted from the circuit, and the current is ramped down. After careful analysis, the exercise is repeated. Next time the magnet that quenched holds the current (i.e. it has trained), and at a higher current another of the 154 dipoles in the circuit quenches. For 2015, 11,080 kA is the target current (6.5 TeV with some margin). Sector 6-7 was successfully brought to this level before Christmas, and took 20 training quenches to get there. Getting all 8 sectors to this level will be an important achievement.

While the qualification of the magnet circuit is ongoing, it is hoped that the tests can be paused for a weekend to perform a sector test. This would inject beam into the LHC again for the first time since February 2013. The aim is to bring single bunches from the SPS through the LHC injection regions at Points 2 and 8 into the LHC for a single pass through the available downstream sectors. This is an interesting exercise, which would allow the testing of synchronisation, the injection system, beam instrumentation, magnet settings, machine aperture and even the beam dump.

A full circuit of the machine with beam and the start of beam commissioning proper is foreseen for March. It should then take around two months to: re-commission the operational cycle; commission the beam-based systems (transverse feedback, RF, injection, beam dump system, beam instrumentation, power converters, orbit and tune feedbacks, etc.); and commission and test the machine protection system to re-establish the very high level of protection required. This will open the way for the first collisions of stable beams at 6.5 TeV sometime in May - initially with a low number of bunches.

CERN Bulletin

KEEP CALM AND SHARE SCIENCE!

FameLab is the exciting competition for young researchers that is conquering the world of science communication. CERN, which was already a partner in the Swiss and French competitions, is now launching its own event. Enter the competition now!

FameLab is not just another talent show for scientists: its magic formula truly helps real scientists show off their communication skills. Successful candidates will have to impress the judges by giving an original and entertaining 3-minute talk. In the words of one of the participants in the Swiss competition: "I enjoyed the fact that it wasn't only a competition, and there were also plenty of opportunities to network with other young researchers and to get valuable feedback on our public speaking and science communication skills."

The contestants are judged on the content, clarity and charisma of their talks. The result is an amazing collection of speeches that are

inspiring, educational and accurate, despite their brevity.

Since 2012, CERN has been a partner of FameLab in Switzerland and since 2014 also in France. If you are a French scientist or you work for a French institute, you can enter the French competition; if you are a Swiss scientist or you work for a Swiss institute, you can enter the competition organised in Switzerland. In order to offer further opportunities for you to become a star of science communication, CERN is organising the first Physics FameLab, to be held on 21 May at CERN. It is open to young researchers (up to 35 years of age) with a valid CERN account. The winner of the competition will go on to participate in the

international final that will be held during the 2015 Cheltenham Science Festival.

Enter the competition now! Read the rules, record a video (3 minutes long maximum!) of your talk and send its URL to the organisers before 15 March 2015. The best videos will be selected to participate in the CERN event. Visit the website for more detailed information: <http://famelab.web.cern.ch>.

See the video:



Antonella Del Rosso

2015: INTERNATIONAL YEAR OF LIGHT

The year 2015, a century after the publication of Einstein's Theory of General Relativity in 1915, has been proclaimed the International Year of Light and light-based technologies by the UN General Assembly. CERN is taking this opportunity to communicate information about the High Luminosity LHC project and CERN's involvement in the SESAME synchrotron project in Jordan. In addition, light has been chosen as the main theme of CERN's participation in the 2015 Researchers' Night.

"Light" as "luminosity" will be the underlying theme of the communication campaign launched to increase awareness of CERN's High Luminosity LHC (HL-LHC). By increasing the luminosity of the LHC by a factor of 10, the ambitious project aims at extending the discovery potential of CERN's flagship accelerator. The challenging upgrade requires a number of key technological breakthroughs, including innovative high-field superconducting magnets; crab cavities based on a technology never used before in an accelerator; a new collimation system using advanced materials; and a novel cold power system concept, which uses an electrical transmission line with a world record-breaking superconducting cable. Under the framework of the EU HiLumi LHC Design Study, the European Union and fifteen institutions worldwide are supporting the initial design phase of the HL-LHC machine.

Synchrotron light for science and peace is the message conveyed through the SESAME (Synchrotron-light for Experimental

Science and Applications in the Middle East) project. SESAME, the Middle East's first major international research centre, is under construction in Allan, Jordan, thanks to contributions from the nine Members and other institutions worldwide. In 2012, the European Commission and CERN agreed to support the construction of the magnetic system of the storage ring, under the umbrella of the FP7 CESSAMag project ("CERN-EC Support for SESAME Magnets"). The project also covers active partnership in the design and production phases, knowledge transfer, and support for the commissioning.

Finally, this year's researchers' night at CERN will be celebrated on 25 September with the special participation of Gao Xinjian, awarded the 2000 Nobel Prize for Literature, and its theme will be light in physics and... poetry!

The first event of CERN's programme for the International Year of Light will be held on Wednesday, 4 February at 8.30 p.m. at the Globe of Science and Innovation. It

will feature an award ceremony for the winners of the PopScience physics in poetry competition (Italian, English, French and Spanish categories) which attracted over 200 competitors from Europe, including the special participation of 52 pupils of the "Collège International de Ferney-Voltaire", who produced drawings in addition to their poems inspired by the physics of the LHC and beyond. Their works are going to be presented as an e-book during the award ceremony, by the Genevan poet Catherine Fuchs. A public talk entitled "Light and luminosity: the concept of Light in Physics from Einstein to the LHC" will be given by the head of the HL-LHC project, Lucio Rossi, with the participation of Giorgio Apollinari, Director for the LHC Accelerator Research Program (LARP) via videoconference from Fermilab (USA). Entrance is free but seating is limited. Please go on the website to book your place: cern.ch/go/light.

See the video:



Paola Catapano

LÉA: AT THE CROSSROADS OF SCIENCE AND DREAMS

"*Léa, un ange dans ma maison*" (*Léa, an angel in my house*) is a film written, directed, produced and self-financed by Jacques Fichet, a member of CERN's Communications Group. CERN features only as a backdrop, but you may recognise some of the locations from your daily life and some familiar faces. Screenings with English subtitles will soon follow at cinemas all over the region.

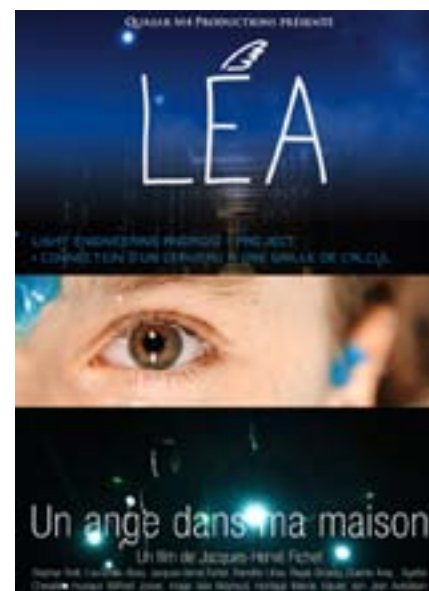
For film buffs who want to assign the film a genre, it's a scientific thriller. The life of Abel, an IT technician deeply affected by the death of his wife and only daughter in an accident, is turned upside down by the arrival of Léa. Meanwhile, scientists are conducting experiments on the use of artificial intelligence. The tension mounts when their prototype suddenly escapes. "Science and scientists are

certainly part of the story, but what I wanted to do throughout the film was to show the links between the protagonists, their feelings and regrets, right up to the final denouement," explains Jacques.

Science is seen from two perspectives in the film: the scientists bent on their experiments with little thought for ethics are set against

what science can do for the humans in the story. "The film is very emotional," says Stéphan Petit, a member of the GS Department who plays the role of Abel. "It's a story of family and personal growth, but also one of surprise and discovery." The role is Stéphan's first significant foray into cinema, but he has around 10 years' experience as a theatre actor... alongside his work as an IT technician at CERN of course!

It took around 15 years of thought and planning to transform Jacques' initial idea into a film lasting 1 hour and 40 minutes. To begin with, the film was basically a family affair and was only worked on at weekends and on bank holidays. But in 2013 Jacques decided to take his project to the next level by devoting himself to it full time (taking several months'



sabbatical) and employing a professional technical team. "We filmed the second half of the film during summer 2013, keeping the filming time to a minimum in order to lower costs, but we didn't compromise on quality," explains Jacques. In fact, some scenes took up to 27 takes to get the desired result! Others were cut in the final edit even though they represented several days' work.

The character of Léa is played by Jacques' daughter, and he himself plays the role of the scientist Cal Zimmerman. "My daughter thoroughly enjoyed the first three days of filming, but the other 67 days were exhausting for her and we had a lot less fun!" says Jacques. "It was a huge amount of work for everyone

involved, including the editor, for example, who I asked to change the end of the film just two weeks ago!"

Since the film takes place at the crossroads between dreams and reality, we asked the team about their own dreams a few days before the preview screening: "I'm looking forward to spending another summer making a new film!" says Stéphan. And the last word from Jacques: "The film is currently being shown at several festivals and I've been contacted by interested distributors, so I'm keeping my fingers crossed!"

Antonella Del Rosso

Léa at cinemas in the local region

Here are the screening times for *Léa, un ange dans ma maison* at cinemas in the local region:

- **Cinéma Voltaire (Ferney-Voltaire, France):** every day from 21 January 2015.
- **Cinéma de Gex:** preview on Sunday, 18 January 2015 at 5 p.m. and then every day from 21 January 2015.
- **Cinéma Cinélux (Genève):** 3 showings with English subtitles: Wednesday, 21 January 2015 at 9 p.m., Sunday, 25 January at 11 a.m., and Wednesday, 28 January at 9 p.m.
- **Cinéma Gaumont (Archamps, France):** every day from 22 January 2015, at 2 p.m. and 9.30 p.m.
- **Cinéma de Thonon-Les-Bains (France):** every day from 21 January 2015.
- **Cinéma de Bellegarde (France):** from 4 February 2015.
- **Cinéma de Saint-Julien-en-Genevois (France):** from 4 February 2015, with a talk by the production team on Friday, 6 February 2015.

THE END OF AN ERA FOR THE CERN RESTAURANT

She's known ten Directors-General, six managers and dozens of colleagues. Her small frame and silver hair, which seem to defy time, are well-known to the thousands of people who use the restaurant. Martine Schmitt is leaving CERN's Restaurant 1 on 30 January, after an incredible 45 years of service.

"I've been here my whole life," she sighs. "I've seen generation after generation of CERN people and have watched their children grow up." Martine started working at the CERN Restaurant in October 1969, when she was 18 years old. At the time, the restaurant was run by the Coop and Martine was assigned to the kiosk, where she worked until 1990. For the past 25 years, though, she has been a cashier in the restaurant, a role that she has always performed impeccably, greeting her clients with unfailing politeness. "She's reserved and very sensitive, and always wants to hear our news," her colleagues say.

The restaurant is an excellent vantage point from which to observe life at CERN and its changes over time. Over the course of a career spent on the ground floor of the Main Building, Martine has watched CERN grow, as its population has increased tenfold and its gender balance improved. While working on the till, she's crossed paths with some of the Laboratory's best-known personalities, including John Adams, who she describes as "very elegant", Wim Klein, the human computer, and Emilio Picasso, who invariably addressed her as "Mademoiselle" and who sadly passed away last year. She also recalls visits from VIPs

from the world outside CERN, such as Pope John-Paul II, French President Jacques Chirac and King Felipe VI of Spain, back when he was still the Prince of Asturias. She has witnessed the expansion of the restaurant, keeping pace with the growth of the Organization, and the arrival of Novae as the new service provider in 2004. The restaurant now welcomes some 2000 customers every day, many of whom head for Martine's till. Few know that, outside CERN, she is a skilled skier and cyclist and has successfully navigated France's most difficult mountain passes.

The restaurant team is organising a retirement party for Martine on Thursday, 29 January from 4 p.m. If you would like to attend, please sign up with Line in the kiosk.

Corinne Pralavorio

TAKING CERN PHYSICS TO SOUTH ASIA

CERN physicists travelled to South Asia last month to bring a plethora of particle physics events to schools, universities and public venues. The initiative was the first of its kind in the region, and brought CERN particle physics to a new audience in Nepal and India.



Kathmandu University students take part in an ATLAS virtual visit.

On 19 December 2014, students from Kathmandu University and Tribhuvan University, Nepal and 16 schools in Punjab, India took part in a joint virtual visit to ATLAS. The visit, which was the first of its kind in South Asia, followed a two-day Masterclass in particle

physics that took place simultaneously in the two countries. The Masterclass was organised as a part of Physics Without Frontiers, an International Centre for Theoretical Physics project in partnership with CERN.

Besides the Masterclass, physics workshops led by ATLAS physicists Kate Shaw, Joerg Stelzer and Suyog Shrestha were held for high school students and science teachers in three different districts in Nepal. Meanwhile, for the general public, the documentary Particle Fever was screened in Kathmandu. The event, which included a Q&A session with the ATLAS team, was fully booked within days.

"The response we received in Nepal was overwhelming," said Kate Shaw, who has also organised Physics Without Frontiers in Palestine, Algeria and Vietnam. "There was a lot of interest in the work we do at CERN.

All of the students we met had unusually strong foundations in mathematics, and were extremely bright and well-motivated. Countries like Nepal recognise the importance of investing in education and scientific research and we hope to encourage them."



While in Nepal, the team visited the Happy Children's Home to deliver gifts and charity funds. In 2010 and 2011, profits from the Atlas Resonance DVD/CD were donated to Happy Children's Home. In this photo, the kids play with the Atlas 3D viewer. Image: Joerg Stelzer.

Abha Eli Phoboo

CAS COURSE ON PLASMA WAKE ACCELERATION

The CERN Accelerator School (CAS) recently organised a specialised course on Plasma Wake Acceleration, held at CERN, Geneva, Switzerland, from 23 to 29 November 2014.



Following a number of introductory lectures on laser and plasma physics, as well as an overview of conventional accelerators and their limitations, the course covered a large number of aspects of plasma wake acceleration schemes: the creation of plasma by high power lasers or particle beams, a description of the plasma creation process through simulations and the characteristics of the accelerated particle beams, including results of the latest achievements. Lectures on beam diagnostics, the applications of plasma accelerated beams, and topical seminars completed the programme.

The course was very successful, with 109 students of 26 nationalities attending; most participants coming from European countries, but also from the US, Israel, India, South Korea, Russia and Ukraine. Feedback from the participants was

extremely positive, reflecting the very high standard of the lectures and teaching.

In addition to the academic programme, the participants also had an opportunity to take part in a typical Swiss folklore evening and a CERN visit on the Saturday morning, both of which were highly

appreciated by all who took part. Forthcoming CAS courses in 2015 will be a specialised school on Accelerators for Medical Applications to be held at Vösendorf, Austria, from 26 May to 5 June 2015, an Advanced School on Accelerator Physics, to be held in Warsaw, Poland, from 27 September to 9 October 2015 and a specialised school

on Intensity Limitations in Particle Accelerators to be held at CERN, Geneva, Switzerland, from 2 to 11 November 2015. More information on all of these schools is available on the CAS website: cern.ch/cas

CERN Accelerator School

Computer Security

PROTECT YOUR PLANT: A "SERIOUS GAME" ABOUT CONTROL SYSTEM CYBER-SECURITY

Control system cyber-security is attracting increasing attention: from cybercriminals, from the media and from security researchers.



Credit image: Kaspersky

After the legendary "Stuxnet" attacks of 2010 against an Iranian uranium enrichment plant, the infiltration of Saudi Aramco in 2012, and most recently the hacking of German blast furnaces, we should be prepared. Just imagine what would happen if hackers turned off the lights in Geneva and the Pays-de-Gex for a month? Or if attackers infiltrated CERN's accelerator or experiment control systems and stopped us from pursuing our core business: delivering beams and recording particle collisions.

Now you can test your ability to protect an industrial plant against cyber-threats! The Computer Security Team, in collaboration with Kaspersky Lab, is organising a so-called "serious game". This game is targeted at control and safety system experts, IT people and line managers, and should increase their awareness of the risks and security problems of running modern control systems. Basically, each of the competing teams of 4-6 people is tasked with running a water purification plant in the most efficient way. This plant consists of two

independent filtration lines controlled by PLCs, HMIs, engineering stations and a data historian. During the five rounds of the game, these two filtration lines generate revenues. However, the teams also have to face cyber-attacks potentially impacting plant performance. In order to defend their plant, each team has to take strategic, managerial and technical decisions while taking operational constraints into account and maintaining a high level of revenue.

Of course this game simplifies many aspects of running complex control systems. Still, having played the game, you should have a better understanding of:

- why fundamental cyber-security awareness is beneficial for fulfilling CERN's mission,
- why we need the technical/experiment networks to be properly separated from the CERN office network,
- why protecting PLCs and other embedded devices is a must,

- why regular changes of passwords, in particular those used for service accounts, are essential,
- why keeping control PCs up-to-date is important, and
- what the benefits of anti-virus software are (among others).

And of course it is quite fun to play in an informal competition with others: the team having earned the most revenue and having best secured their plant wins a prize!

This game has been developed by Kaspersky Labs, a renowned security company, and will be presented by them in an interactive fashion using a board simulating the plant (see image) as well as iPads for news announcements and for book-keeping revenues and expenses. It will be hosted in the CERN "Pump Hall" (Building 216) and is scheduled to take place on Tuesday, 3 February 2015, from 4 p.m. to 6 p.m. This is a unique opportunity! Register here: cern.ch/go/z87f. As places are limited, control and safety system experts, technicians and engineers will be given priority.

Check out our website <https://security.web.cern.ch> for further information, answers to your questions and help, or e-mail 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/fr/monthly-reports.shtml>

Stefan Lueders, Computer Security Team

DANIEL BRANDT (1950-2014)

It was with great sadness and emotion that we learnt of the death of our colleague and friend Daniel Brandt.



Throughout his career, Daniel was a faithful servant of the Organization, notably through his work as an expert in beam optics and collective effects.

In particular, he contributed to the optimisation of the performance of LEP and later to theoretical studies on beam dynamics for the LHC.

Daniel’s personal qualities made him a most pleasant colleague, always passionate and respectful. He tirelessly encouraged his students, giving them an excellent foundation in the field of accelerator physics to prepare them for their professional lives.

The success and prospects of young physicists were a constant concern for him; in fact he believed they were absolutely essential.

His commitment to students and his passion for quality teaching in accelerator physics were again in evidence in the years when Daniel was the head of the CERN Accelerator School (CAS), a role in which he succeeded admirably.

Daniel, we offer you our sincere thanks; we already miss you terribly. Our thoughts are with your wife, your two daughters and your whole family, to whom we offer our sincere condolences.

Your friends and colleagues

Official news

TO ALL MEMBERS OF PERSONNEL IN RECEIPT OF REMUNERATION FROM CERN

In 2015 net monthly remuneration will be paid into individual bank accounts on the following dates:

- Monday 26 January
- Wednesday 25 February

- Wednesday 25 March
- Friday 24 April
- Tuesday 26 May
- Thursday 25 June
- Friday 25 July
- Tuesday 25 August

- Friday 25 September
- Monday 24 October
- Wednesday 25 November
- Thursday 18 December

Finance, Procurement and Knowledge Transfer Department

PROCEDURE FOR OBTAINING VISAS FOR SWITZERLAND AND FRANCE - SIGNATURE RIGHTS

In accordance with the Status Agreements with CERN, Switzerland and France facilitate the entry of members of the Organization’s personnel on to their territories. Where relevant, detailed procedures for obtaining visas apply.

Within the framework of those procedures, only the following individuals are authorised to initiate the *Note verbale* procedure as well as to sign the *Official Invitation Letters* and the *Conventions d’accueil*.

1. Kirsti ASPOLA (PH – CMO)

2. Catherine BRANDT (DG – IR)

3. Oliver BRÜNING (BE – HDO)

4. Michelle CONNOR (PH – DI)

5. Gaëlle DUPERRIER (PH – DI)

6. Patrick FASSNACHT (PH – ADO)
7. Fernando FERNANDEZ SAVORGNANO (HR – TA)

8. David FOSTER (IT – DI)

9. Nathalie GRÜB (PH – DI)

10. Cécile NOELS (DG – DI)

11. Maria QUINTAS (HR – TA)

12. Kate RICHARDSON (PH – DI)

13. Jeanne ROSTANT (PH – DI)

14. Marina SAVINO (PH – DI)

15. Ulla TIHINEN (PH – DI)

16. Emmanuel TSESMELIS (DG – DG)

17. Rüdiger VOSS (DG – IR)

The French and Swiss Authorities will reject any request signed by a person who is not on this list.

We would like to remind you that in accordance with the memorandum of 7 December 2000 issued by the Director of the Administration, (ref. DG/DA/00-119), “the Organization shall not request any legitimisation document (or residence permit) or visa from the Host States for persons registered as EXTERNAL” (people who do not hold a contract of employment, association or apprenticeship with CERN).

We would also like to remind you that those coming to CERN should find out in

good time about the conditions of entry to Switzerland and France applying to them and ensure that they obtain the requisite visas, where applicable, in the country in which they are habitually resident.

Useful information can be obtained from the Swiss and French diplomatic representations

abroad, as well as from the following Web pages:

- https://www.bfm.admin.ch/bfm/en/home/themen/einreise.html (Swiss Federal Office for Immigration) ;
- http://www.diplomatie.gouv.fr/en/coming-to-france/ (French Ministry of Foreign Affairs).

The Authorities of the Host States have informed the Organization on a number of occasions that they insist upon scrupulous compliance with visa legislation.

Relations with the Host States Service
relations.secretariat@cern.ch
Tel. 72848

HEALTH INSURANCE FOR USERS AND OTHER ASSOCIATED MEMBERS OF THE PERSONNEL

A new health insurance option for Associated Members of the Personnel (including users): Allianz Worldwide Care Healthcare Plan for CERN MPAs.

Based on a survey conducted by the Users’ Office and a request by the Advisory Committee of CERN Users (ACCU), CERN has looked into health insurance products on the market and has identified a health insurance for MPAs and their accompanying family members which covers the financial consequences of illness and accidents and which is deemed adequate in CERN’s Host States. This insurance may be a useful option for MPAs who may not have adequate coverage in place from their home institution or who choose not to or cannot enrol in

the CERN Health Insurance Scheme (CHIS). For the time being the insurance company can only offer limited duration policies to MPAs. We hope that this restriction can be removed in the future.

The health insurance is offered by the insurance company Allianz WorldWide Care for a monthly fee of 139 euros per insured person (MPA and each of his/her accompanying family members). Further information is available at: http://usersoffice.web.cern.ch/health-insurance-information.

CERN is not party to the insurance contract between the MPA and the insurer.

Enrolment in the CHIS remains a possible option, as well as other insurance products that are deemed adequate. It is the sole responsibility of each MPA to select and take out the health insurance which meets his/her needs and, if applicable, those of his/her accompanying family members.

Representatives of the insurance company will be present at an information booth at CERN next to the Users’ Office and Restaurant No. 1 on Thursday, 22 January at lunchtime and on Tuesday, 27 January from 11.30 a.m. to 2 p.m.

Take note

NEW YEAR, NEW INTERFACE FOR EDMS!

Some of you may already have made the leap to the new EDMS6 interface and be benefitting from the additional functionality and new design it has to offer. But for those who haven't, you will be able to do so as of Wednesday 28 January when EDMS6 becomes the default interface.

EDMS is the de facto interface for all engineering related data and more. There are currently more than 1.5 million documents and over 2 million files stored there. What's new in EDMS6?

While we have kept the key concepts, we have introduced more functionality and improved navigation within the interface, allowing for better performance to help you in your daily work.

We have also added a personal slant to EDMS6 so that you can now customise your list of favourite objects. Modifying data in EDMS is much simpler, allowing you to view all object data in a single window. For example, files can be added to documents with a simple drag and drop and you can now request access to documents directly from the owner, without going via EDMS support. These are just a couple of improvements among others that you will discover in EDMS6.

More information and tutorials regarding this interface can be found at the EDMS6 website: <https://espace.cern.ch/edms-services/EDMS6/>.

The EDMS team hopes you will appreciate the new interface, however for those of you who still want the option to return to EDMS5, you can do so via the EDMS5 link in the top right hand corner of the interface. Please remember that the data in EDMS5 and EDMS6 are identical, so anything created or modified in one interface will be visible in the other and vice versa. For more information, see "How to go back to EDMS5?": espace.cern.ch/edms-services/faq.

Should you have any comments, suggestions or questions, please don't hesitate to contact us at edms.support@cern.ch.

CERN SCHOOL OF COMPUTING | THEMATIC CSC | 18-23 MAY, 2015

tCSC2015 continues the concept trialled over the last two years. It aims to complement the existing portfolio of CSC events: the traditional main summer school, organised since 1970, the inverted CSCs (iCSCs) organised since 2005, and the special schools, like that organised in 2006 in Bombay.

Shorter, smaller, focused are the three distinguishing features of the "thematic CSC" (tCSC). But, though different from the main CSCs, the tCSCs maintain the same guiding principles:

1. Academic dimension on an advanced topic
2. Theory and practice
3. Networking and socialisation.

The third thematic CSC will take place in Split, Croatia, from 18 to 23 May 2015.

All applicants are welcome, including former and future CSC

participants in the main summer school.

The theme is "Efficient, Parallel Programming and I/O", covering:

1. **Programming for concurrency:** modern and performing C++, expressing parallelism pragmatically, resource protection and thread safety, strategies to obtain peak performance with large-scale application
2. **Concepts for efficient computing:** data-oriented design, future technologies overview
3. **Structuring data for efficient I/O:** ways to store data, preserving data, key Ingredients to achieve effective I/O

Applications will be accepted until **31 January 2015**.

More information is available on <http://cern.ch/csc>.

Alberto Pace, CSC Director

RETIREMENT PARTY FOR MARTINE (NOVAE)! | 29 JANUARY



Martine part en retraite !

Après 45 années passées à vos côtés,
Martine quitte le CERN pour une retraite
bien méritée.

Venez fêter son départ Jeudi 29
Janvier à partir de 16h

Inscrivez-vous au kiosque auprès de Line

Training

SAFETY TRAINING: PLACES AVAILABLE IN JANUARY AND FEBRUARY 2015

Places are available in the forthcoming Safety courses. For updates and registrations, please refer to the Safety Training Catalogue: cta.cern.ch.

*Safety Training, HSE Unit
safety-training@cern.ch*

LANGUAGE TRAINING

If one of your New Year's resolutions is to learn a language, there is no excuse any more.

You can attend one of our English or French courses and you can practise the language with a tandem partner!

General & Professional French courses

The next General & Professional French course will start on 26 January. These collective courses aim to bring participants who have at least level A1 to higher levels (up to C2).

Each level consists of a combination of face-to-face sessions (40 hours) with personal work (20 hours) following a specially designed programme.

A final progress test takes place at the end of the term.

Please note that it is mandatory to take the placement test.

French courses for beginners

The aim of this course is to give some basic skills to beginners in order to communicate in simple everyday situations in both social and professional life. These courses can start at any time during the year, as soon as a group of beginners has been identified.

Participants can apply either for a semi-intensive (10-week courses with 6 hours of classes per week) course and choose between different schedules (morning/lunch time – late afternoon).

If you have doubts regarding your level in French - you can find here the "European levels – Self-Assessment Grid that will give you an idea at what level you will be placed.

French Oral Expression

These collective courses aim to bring participants with a good level in French to a higher level of oral expression in a professional context. The next Oral Expression course will start on January 26.

Please note that it is mandatory to take the placement test.

French Writing Course

These collective courses aim to bring participants with a good level in French to a higher level of written expression.

Please note that it is mandatory to take the placement test.

Cours d'anglais - général & professionnel

Les prochains cours général & professionnel débuteront le 26 janvier. L'objectif principal de ces cours collectifs est de permettre aux participants d'un niveau A1 de progresser pour atteindre un niveau supérieur pouvant aller jusqu'à C2.

Nous vous prions de remplir aussi une demande de formation pour un test de placement – ce test est obligatoire même si vous avez déjà suivi des cours de langue au CERN.

Cours d'expression – anglais

Le prochain cours d'expression orale débutera le 26 janvier. Ce cours s'adresse à un public ayant un bon niveau en anglais.

Cours d'expression écrite

Nous proposons deux cours d'expression écrite : Administrative et Technical

Si vous souhaitez suivre un de ces cours, merci de bien vouloir remplir une demande de formation pour le cours et pour le test de placement.

For registration and further information on the courses or the language tandem programme, please contact Kerstin Fuhrmeister (70896), (language.training@cern.ch) or visit cta.cern.ch

Seminars

FRIDAY JANUARY 23, 2015

11:00 LHC Seminar Seminar on CMS results Main Auditorium

14:00 TH String Theory Seminar TBA TH Conference Room

TUESDAY JANUARY 27, 2015

11:00 CERN Heavy Ion Forum Global Collective Flow in Heavy Ion Reactions TH Conference Room

WEDNESDAY JANUARY 28, 2015

14:30 ISOLDE Seminar TBA

THURSDAY JANUARY 29, 2015

14:00 TH BSM Forum tba TH common room

14:15 A&T Seminar "The Long Shutdown1 (LS1) consolidation program for LHC" BE Auditorium Prevešin

FRIDAY JANUARY 30, 2015

14:00 Particle and Astro-Particle Physics Seminars TBA

MONDAY FEBRUARY 02, 2015

02:00 KISTI Computing Schools LHC Grid Computing School Daegeum (3rd-floor)

08:00 Conferences & Workshops CERN Winter School on Supergravity, Strings, and Gauge Theory 2015 Main Auditorium

TUESDAY FEBRUARY 03, 2015

14:00 TH String Theory Seminar No seminar due to Winter School

