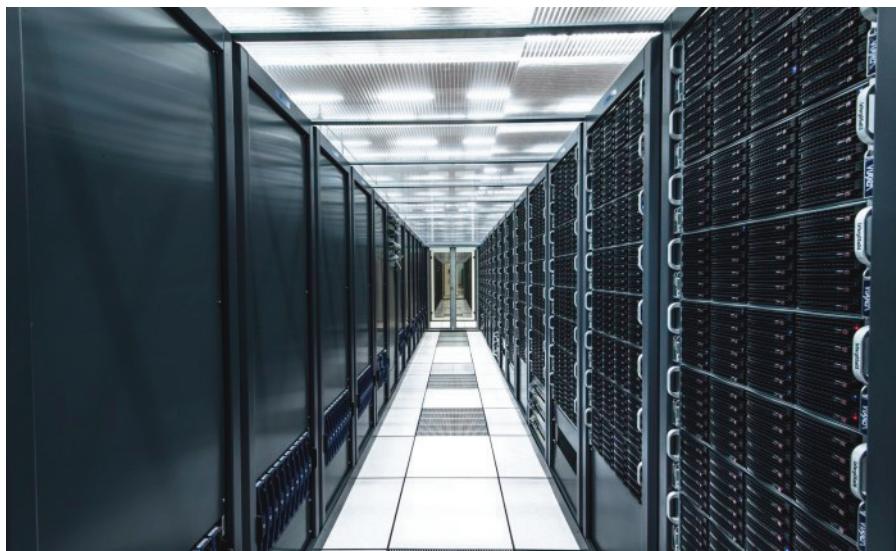


## SIX NEW PROJECTS WILL BRIDGE GAP BETWEEN CERN AND SOCIETY

Knowledge Transfer Fund awarded over six hundred thousand Swiss francs to six projects in 2016.



Computer racks at the CERN Data Centre, the heart of CERN's entire scientific, administrative, and computing infrastructure.

CERN has awarded funding to six new projects with the aim to bridge the gap between technology and society. Over 600,000 CHF (€ 542,766) of capital was granted through its competitive Knowledge Transfer Fund (KT Fund). The fund is issued as part of CERN's goal to maximize its overall impact on society.

The selected projects cover new applications for CERN technology in a broad range of fields beyond high-energy physics, ranging from cancer diagnostics and aerospace applications, to next-generation cloud computing, radiation safety, and digital preservation. The technologies were developed at CERN as part of the variety of high-energy physics needs, and arise from several research departments: Engineering, Information Technology, Beams and Experimental Physics.

Since the fund's creation in 2011, 38 projects have been funded, each project receiving

grants between 15-240 kCHF in value over one or several years.

One of the projects can be used for non-invasive Positron Emission Tomography (PET) scans, which can help for early diagnostics of cancer in patients, and was funded by the Medical Applications section. "The technology readiness level is often in the early stages compared to industry standards," said Manuela Cirilli, section leader of Medical Applications at CERN. Cirilli started working at CERN as a physicist and then became passionate about how CERN detector and accelerator technology could be used to solve societal challenges through medical applications. "The KT Fund ensures increased marketability of CERN technology so it has a better chance to be useful to society as soon as possible," Cirilli adds.

In addition to increased marketability, the KT Fund aims to grow its public-private

### A WORD FROM MARTIN STEINACHER

#### WHY DIVERSITY MEANS MORE THAN JUST GENDER

In this, my first message to the personnel, I'd like to focus on diversity. In all my time representing Switzerland in Council bodies, and looking at CERN from the outside, I was always impressed by the way in which the Organization deals with this issue. Fairness is intrinsic to a place like CERN, as it is to science, and I think that's the key, because fairness is at the heart of nurturing diversity.

(Continued on page 2)



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# A WORD FROM MARTIN STEINACHER

## WHY DIVERSITY MEANS MORE THAN JUST GENDER

Whether we're talking about the biosphere, what we eat or the place where we work, diversity is key. But in all these cases, nurturing diversity requires effort, and that's as true for CERN as it is for anywhere else. That's why we have a diversity office to help us. It's why we have policies that promote diversity, and it's one of the reasons why we have a code of conduct to guide us in our working relationships.

People often equate diversity with visible aspects such as gender and ethnicity, but there's a lot more to it than that. Diversity is also about the things we can't see: things like where we come from, our approach to work and our way of thinking. Different cultures have different norms for social interaction, and it's important to be respectful of these. An introvert might have just as much to say as an extrovert, so it's important to give everyone the chance to be heard.

CERN takes diversity very seriously. Ever since the renowned theoretical physicist,

Mary K. Gaillard, produced a report on gender issues at CERN at the beginning of the 1980s, diversity has been high on the agenda. Nevertheless, our most recent report on the subject, covering the period 2012-2015, makes for sobering reading. It shows that we are making progress towards our objective of being *an equal opportunity employer, implementing a policy that extends beyond legal compliance and moves towards proactively embedding the added value of diversity into its day-to-day operations*. But it also shows that we cannot be complacent. Good progress has been made, from ensuring fair recruitment from all our Member States to improving the gender balance across the whole Laboratory and at all levels. But there's more to be done.

We can all contribute to making sure that we keep moving in the right direction: by not prejudging our colleagues, for example. And by listening, encouraging, creating opportunities and being inclusive we can all nurture diversity. More tangibly, we can

keep an eye open for events organised by the Diversity Office, such as the recent talk by Mary K. Gaillard or training sessions designed to help us to be sensitive to diversity issues. Because, at the end of the day, we're all naturally attracted to what we know, and working with diversity is something we can all learn to do.

CERN is a role model in this area, whether we like it or not. Coming from the outside, I'm well placed to say that I think we are a good one. We're not perfect, but we're doing pretty well and we have procedures in place that will allow us to further improve. It's been a pleasure to see how CERN nurtures its diversity to get the best results for everyone. And it's even more of a pleasure to be joining such a remarkable organisation.

*Martin Steinacher,  
Director for Finance and Human Resources*

# SIX NEW PROJECTS WILL BRIDGE GAP BETWEEN CERN AND SOCIETY

(Continued from page 1)

cooperation as a tested way to accelerate the innovation process. Relevant industrial companies, hospitals, external universities, startups and sometimes spin-offs are involved in the technological development financed by the KT Fund. The partnerships are set up internationally and are a true testimony to CERN's international nature.

The development of human capital is also central to the KT Fund activities. The grants contribute to material and equipment costs, but also mean CERN teams can hire associate members, technical students or PhD students to contribute to R&D activities. These new contributors gain knowledge related to product industrialization and project management,

and leave CERN with direct links with industry. This helps them develop their careers, and contributes to the dissemination of CERN's knowledge towards industry.

CERN's Knowledge Transfer process focuses on maximizing impact rather than profit, so part of the revenue generated by other Knowledge Transfer activities is directly re-invested into the KT Fund.

CERN members working on new technology or knowledge that is potentially transferable can contact the Knowledge Transfer Group. The KT Fund encourages CERN researchers, engineers or technicians interested in applying for the next KT Fund call to contact their INET coordinator

or the Knowledge Transfer group as early as possible to discuss opportunities.

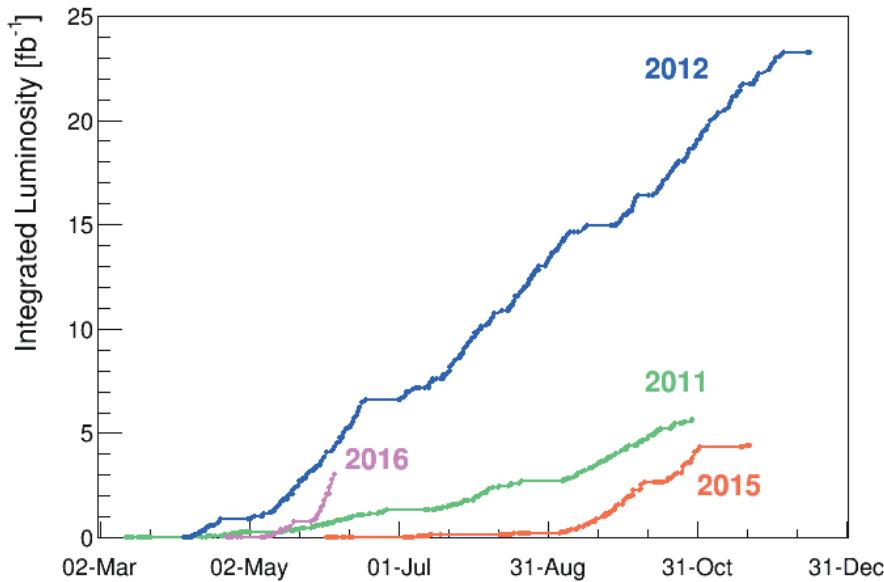
*Further information:*

- *CERN Knowledge Transfer Annual Report ([cern.ch/go/b6QC](http://cern.ch/go/b6QC))*
- *CERN Knowledge Transfer Website ([cern.ch/go/78Pm](http://cern.ch/go/78Pm))*
- *CERN Knowledge Transfer Fund ([cern.ch/go/dDI7](http://cern.ch/go/dDI7))*

*Anaïs Rassat, Knowledge Transfer Group*

# LHC REPORT: STAYING COOL DESPITE RECORD HIGHS

These two last weeks have been a highlight of LHC operation so far, delivering record luminosity.



LHC integrated luminosity in 2011, 2012, 2015 and 2016.

It's been a record-breaking period for the LHC. On the evening of Wednesday, 1 June, the maximum number of bunches achievable with the current configuration, based on the injection of 72 bunches trains with a spacing of 25 ns, was reached. 2040 bunches were circulating in the machine. The rest of the week continued in a similar vein: the luminosity record at 6.5 TeV was broken with a peak luminosity of just over  $8 \times 10^{33} \text{ cm}^{-2}\text{s}^{-1}$ , reaching 80% of the design luminosity. This was followed by a new record for integrated luminosity in a single fill, with  $370 \text{ pb}^{-1}$  delivered in 18 hours of colliding beams. Finally, a third record was broken later in the week: with an availability for collisions of around 75% (the annual average is normally around 35%) and 6 long fills of particles brought into collision one after the other,

around  $2 \text{ fb}^{-1}$  of luminosity were delivered during the week, breaking the previous record of  $1.4 \text{ fb}^{-1}$  in a single week established in June 2012.

These records follow the decision taken at the end of May to focus on delivering the highest possible integrated luminosity by the summer conferences, given the delays caused by the recent technical problems.

As a consequence of this decision, the first machine development period, in which machine experts carry out machine studies, has been postponed to allow luminosity production to be given priority until the first technical stop (TS1). Given the long stop caused by the problem with the PS main power supply, which had ended just the

week before the decision was taken, it was also decided to reduce the length of the LHC technical stop from five days to two and a half days.

With 2040 bunches circulating in the machine, the heat load deposited on the LHC beam screens in the arcs reached 150 W per half cell (one quadrupole and 3 dipoles) in sector 12 (between ATLAS and ALICE), just below the maximum of 160 W that can be tolerated by the cryogenics system. Electron clouds induced in the vacuum chamber by the closely spaced LHC bunches are responsible for this heat load. With a new cryogenic feed-forward system in place to tune the beam screen cooling parameters according to the intensity stored in the machine and the beam energy, operation is now significantly smoother than in 2015. The waiting periods needed to allow the cryogenics system to stabilise before starting the energy ramp-up or the ramp-down after a dump have virtually disappeared as a result, significantly speeding up the machine cycle.

The technical stop finished on schedule around midday on Thursday, 9 June. It was followed by a number of fills with a low number of bunches to validate the machine set-up. The aperture and optics were measured and a full set of loss maps was performed. These confirmed that the machine is in good shape and ready for a sustained period of operation at high luminosity.

A run with 600 bunches on Saturday allowed the experiments to perform some calibration measurements. This was followed by another record fill with 2040 bunches, a peak luminosity well over  $8 \times 10^{33} \text{ cm}^{-2}\text{s}^{-1}$ , and around  $450 \text{ pb}^{-1}$  delivered in around 21 hours.

Jorg Wenninger for the LHC team

# CERN'S IT CONSULTANCY TEAM: A NEW IT PROJECT SUPPORT SERVICE

Newly created IT Consultancy Team provides advice on IT matters to communities at CERN starting new projects or reviewing computing activities of old.



The members of CERN's IT Consultancy Team.

The consultants share their knowledge and experience to improve awareness of the IT landscape at CERN and to advise on system architecture and design to ensure best usage of existing IT services and solutions that favour, and are compatible with, the infrastructure already in place.

They also help to formalise requirements and assess impact on security, software licenses and cost, especially where contacts among different services are needed and questions go beyond the current computing service offerings.

For instance, the IT consultants may help answering questions like the ones below:

**We are starting with project X – how could we make its computing aspects compatible with the CERN IT infrastructure? E.g. if you**

**need a web content management system favour Drupal instead of WordPress or Joomla as Drupal is currently used in the CERN Web infrastructure. We plan to buy software X to solve problem Y – does it make sense at CERN?**

*The IT Consultancy team can also help check whether software to solve the problem is already available at CERN.*

**We are planning a project to solve computing problem Z – does anyone else have it at CERN?**

*If we take load balancing as an example, the IT department offers load balancers covering many cases.*

**There is a very useful online service – can I get the same service internally at CERN?**

*For instance, it is possible to use CERNBox instead of Dropbox, with the benefit that the data stays at CERN.*

**An external consulting company proposes a solution using virtual machines in an external cloud provider, such as Amazon EC2 – what to do?**

*Outsourcing into an external cloud might collide with CERN's data protection policy (in draft). The IT Consultancy team would explain to you how to run virtual machines in the CERN private cloud to avoid losing control of your data.*

**I'm from a new experiment at CERN, what services and advice can the IT department provide for data taking?**

*The team would help you go through the whole range of services, e.g. facilities for physics data storage such as EOS and CASTOR.*

The team consists of one expert per group from the IT department as well as from BE-CO, the objective in the future being to have experts from all CERN computing groups.

The current IT Consultancy Team members are Xavier Espinal IT-ST, Luigi Gallerani BE-CO, Arash Khodabandeh IT-DB, Sebastian Lopienski IT-DI, Jose Carlos Luna IT-CS, David Martin Clavo IT-CF, Ignacio Reguero IT-CM (Coordinator) and Bruno Silva de Sousa IT-CDA.

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*Do not hesitate to contact the team by submitting a request to Service Element 'IT Consulting Service' in the CERN Service Portal or by sending an e-mail to **It-consulting@cern.ch**.*

*Ignacio Reguero, IT Department*

# COME AND PLAY WITH HEAL IN MICROCOSM!

A new interactive game in *Microcosm* informs about hadron therapy – come and test it!



HEAL is a new interactive game currently under evaluation at Microcosm to inform visitors about hadron therapy, one aspect of the CERN-related contributions to the medical field.

*Microcosm* is continuously evolving and new content is installed regularly. One of the most recent exhibits is called HEAL - an interactive game with the aim of informing visitors about the hadron therapy to treat cancer. It has been developed by Jenny Rompa, a PhD student at CERN, within the activities of MediaLab. The application is controlled through body movements and the player is asked to set the right energy and the right angle of the hadron beam to make the (brain) cancer disappear.

As part of her doctoral thesis, Jenny also built a questionnaire to hand out to visitors in order to examine their user experience. The goal of the study is to evaluate the effectiveness of using interactive games and applications in learning processes and exhibitions.

We would like to encourage all CERN people and their visitors to drop in to *Microcosm* to see the newest exhibits installed, play with HEAL and give their feedback by completing the survey.

Stefania Pandolfi

## HORSES HELP TO MAINTAIN CERN'S FORESTS

On the initiative of the *Office National des Forêts*, France's forestry commission, horses are helping to remove trees cut down in CERN's forests.



The CERN site covers 625 hectares, of which around 200 are fenced sites used for CERN's research activities. The rest of the land consists of fields rented out to farmers and about 90 hectares of forests, mainly in France and managed by the French forestry commission, the *Office National des Forêts* (ONF), under an agreement with CERN signed in 2010.

The upkeep of CERN's forests requires regular maintenance work, which includes thinning out seedlings, selecting the strongest saplings and harvesting mature trees.

This June, the ONF has decided to involve horses in the removal of felled trees from CERN's woods in Prévessin. As Florent Daloz, the logger entrusted with this activity by the ONF, explains, the use of horses to haul timber completely died out in the 1960s but resumed in the 1980s and 1990s, both in forests and in vineyards. Today, about fifteen horse breeders in the Rhône-Alpes region offer such services.

Horse logging is more environmentally friendly and more conducive to sustainable development than mechanised logging and can also be used alongside it. "This method allows us to cut down on the number of tracks needed for the machines, as the logs are hauled from the undergrowth to the forest tracks by the horses", explains Erwan Le Marrec, the ONF forester responsible for CERN's forests. "This reduces the impact on the forest floor and makes logging more acceptable to the public."

Django and Blues, two draft horses of the Nord and Ardennes breeds, have been brought in to help out in the logging activities in Prévessin. They are guided by their owner, who prepares them for manoeuvres using voice commands that are then confirmed with a pull on the ropes.

The harvesting operations on the 11 hectares concerned will produce 74 m<sup>3</sup> of oak logs of a quality suitable for carpentry and joinery and 150 m<sup>3</sup> of oak firewood, which will be sold to professionals.

"What's more, this 'green' approach to forest management adopted by CERN and the ONF is appreciated by the many people who go walking in CERN's woods or use them for sporting activities", says Mathieu Fontaine, head of CERN's Green Spaces service.

François Briard

# HIGH ENERGY SAILORS



The High Energy Ladies, the CERN Yachting Club's ladies' team, were the first all-female team to complete the Geneva-Rolle-Geneva race on 4-5 June.

CERN Bulletin

## BABY FALCON RESCUED ON CERN SITE

This baby falcon was found on Tuesday, 7 June near a car parked in the Building 40 carpark.



Connie Potter, who first saw the bird, contacted CRR (*Centre de Réadaptation des Rapaces*) at Bardonnex. Following their advice Connie and Chris Thomas managed to pick it up and get it into a box, and waited with the bird at the main gate for the CRR to collect it.

The chick will be fed and trained to fly at the Centre in a tunnel, and ultimately released into the wild, probably near CERN. The bird, who has been tagged with ID number 2054, weighed 119 grams.

Harriet Jarlett

## DRIVE-BYE

### Like a lion waiting to ambush gazelles at a waterhole, malware can catch you by surprise.

As some of you might have noticed, the Computer Security Team had to block the news site "20min.ch" a while ago, as it was found to be distributing malware. This block comes after similar incidents at other Swiss organizations. Our blocking is protective in order to safeguard your computers, laptops, tablets and smartphones.

Unfortunately, this is not the first time we have seen these so-called drive-by/waterhole attacks: once you have visited an affected website, embedded third-party malicious code is downloaded to your computer and subsequently infects it (if running Windows or Android as well as, less likely, Mac operating systems). Hence the name "drive-by". As "20min.ch" is a very frequented website among CERN staff members and users, it makes it a perfect source for attacks against CERN (or other Geneva-based organisations): instead of attacking those organisations directly, which might be difficult as they are likely to be security aware, why not first

target an external site with a lower security level, but with high visibility? Like a lion waiting to ambush gazelles at a waterhole, hence the name "waterhole attack". In the past, other prominent websites in the Geneva area were also susceptible to such attacks. "20min.ch" has already shown up on our radar a few times in the past.

Protection is difficult as the hosted malware is usually based on "zero-day" exploits, i.e. malware that is exploiting vulnerabilities not publicly known at that moment. We usually recommend having your system completely up-to-date – using Windows Update, Mac Update, Yum auto-update, or any other permanent update mechanism for your preferred operating system and applications. We also recommend running an antivirus solution: check here for CERN's free offerings. However, these won't help with fighting zero-day exploits, as neither the patching nor the antivirus software could know about them. Still, don't be negligent. If you want to be

careful, browse the web from a Linux PC (like LXPLUS) as they are currently less susceptible to that kind of attack. Or just refrain from visiting this type of website. Remember? When in doubt about the link/URL you are about to open: "Stop, think, don't click!"

For further information, questions or help, check: <https://security.web.cern.ch> or contact us at [Computer.Security@cern.ch](mailto:Computer.Security@cern.ch).

Do you want to learn more about computer security incidents and issues at CERN? Follow our Monthly Report:  
[https://security.web.cern.ch/security-reports/en/monthly\\_reports.shtml](https://security.web.cern.ch/security-reports/en/monthly_reports.shtml)

Stefan Lueders, Computer Security Team

## Ombud's Corner

### ARE YOU BEING SERVED?

A few weeks ago, I overheard a conversation in the cafeteria where a colleague was asked how it was that he was always smiling... his answer was immediate - "That's easy", he said, "I work in such a great place – great science, great people, great opportunities...". Amidst the general laughter and acquiescent nodding that followed, I found myself musing on this response and thinking about all the different services that play their part in achieving the mission that inspired this sentiment.

The list is long, and of course we cannot possibly name them all, but it is still worth sparing a few thoughts, for instance, for some of the services that we may typically encounter in the course of an ordinary day.

It starts with the guards at the gate who contribute to our safety as they check our badges and wave us on, the cleaners who spend their evenings working to provide us with a pristine and welcoming work space, or the repair and removal men who work on their tasks as quietly and discreetly as possible so as to allow us to get on with our own. And finally let's not forget the cafeteria staff that always has a smile for us in the midst of the hustle and bustle of lunchtime and other much needed breaks!

Of course, we cannot perhaps stop to thank them all every time – that would risk holding up traffic or indeed in some cases hold up their

work – but are we aware of their contributions, and do we acknowledge or greet them if on occasion the opportunity should arise?

Then come the (thankfully!) less frequent days when something goes wrong and we reach out to dial 77777 – do we take the time to explain the problem politely and as fully as possible to the front line support so that they can determine the suitable action or relay the message to the appropriate expert, as needed? And then do we trust them to understand the urgency in prioritizing all the demands on their time and refrain from calling back within the hours that follow? How often do we then remember to send off an email to acknowledge the work done?

And what about those not-so-ordinary days when we have the incredible privilege to be invited to talks, workshops and events in the auditoria, the 'Pas Perdus', the Globe – with

top-of-the-field speakers or showcasing front edge developments – all organized for us on our own doorstep and free of charge? Do we think of the hours of planning and work involved and the inevitable disappointment of the organizers when only a scattering of colleagues turns up? Do we consider their position or indeed the image of the Organization when they are obliged to turn people away and yet the seats remain empty because colleagues who registered do not show up? Do we stop to wonder what impressions of our Organization the speakers take away?

So many questions, revealing so many lost opportunities, often probably based on a mere thoughtlessness on our parts – and my musings lead me to wonder if indeed just a little consideration for others might not make this an even greater place for all?

All previous Ombud's Corners can be accessed in the Ombud's blog: <http://cern.ch/go/p9ZS>.

Sudeshna Datta-Cockerill

# THOMAS WALTER BANNERMAN KIBBLE (1932 - 2016)

**Tom Kibble, an internationally-renowned theoretical physicist, passed away on Thursday 2 June.**



Professor Thomas Walter Bannerman Kibble passed away unexpectedly on 2 June at the age of 83. He was senior research investigator at the Blackett Laboratory and Emeritus Professor of Theoretical Physics at Imperial College, London.

He made seminal contributions to our current understanding of symmetries and symmetry breaking in the Standard Model of particle physics. He was among those who, in 1964,

proposed the mechanism of spontaneous symmetry breaking in gauge theories, together with G. Guralnik and C. Hagen in the autumn of that year, following the papers by R. Brout and F. Englert and by P. Higgs.

When this new understanding was incorporated into a model proposed by S. Glashow in 1961, it lead to the first formulations of the Standard Model by S. Weinberg and A. Salam. Kibble deepened our understanding of the quantum properties of broken gauge theories for many years to come. He showed in particular how one could combine the masslessness of the photon with the short range of the weak interactions.

He was very interested in the structure of phase transitions and in symmetry breaking in the early universe. He made outstanding contributions in this field, by studying the possible existence of cosmic strings, domains,

and textures, and their role in determining the large-scale structure of the universe as we see it.

He received many honours: he was elected Fellow of the Royal Society in 1980 and won their Hughes medal in 1981, the Rutherford (1984) and Guthrie (1993) medals of the Institute of Physics, the Albert Einstein Medal (2014) and the Royal Medal of the Royal Society of Edinburgh (2014). He was awarded a CBE in the Queen's Birthday Honours in 1998 and was knighted in 2014.

He is survived by his three children: Robert, Helen and Alison. He was a deep thinker and a charming and humble person. He will be dearly missed.

*His friends and former colleagues*

# IRENE VICHOU (1964 - 2016)

**It was with great sadness that we learnt that Irene Vichou, our much appreciated ATLAS colleague, had passed away in April after an illness.**



Irene started work at CERN as a PhD student of the University of Athens with the West Area Omega experiment. From 1993, she worked with the ATLAS LAr calorimeter group from LAL Orsay, participating in calorimeter prototype beam tests and doing ATLAS's first full simulation of photon and electron identification by calorimeters.

In 1996, Irene joined the ATLAS Tile calorimeter community, and was a very active member of the collaboration from then on, initially working with the IFAE Barcelona team. She was involved in the first prototypes of caesium radioactive source calibration systems, optimising the optical uniformity of the Tile calorimeter.

In the year 2000, Irene joined the University of Athens team at ATLAS. She worked on commissioning an important test bench to qualify the 10,000 photo-multiplier blocks assembled for the ATLAS Tile calorimeter, and was also involved in the quality checks of the early production Tile calorimeter modules.

Finally, in 2004, Irene Vichou joined the University of Illinois at Urbana-Champaign, and became actively involved in the preparation phase for Tile calorimeter sub-detector operation at the ATLAS experiment. She was responsible for many crucial hardware activities and worked in parallel on the final refinement of the cell electron energy scale from test beam data, offline data quality, studies of coherent noise and saturated pulses. At the global level of the ATLAS experiment, Irene coordinated several activities within the Jet/Emiss group.

Irene was a supervisor of several PhD students, who were studying the cross sections of ttbar production in the dilepton channel with ATLAS 7 TeV data. She was a real mentor and friendly example to follow for them.

From 2014, Irene was the Project Leader of the ATLAS Tile calorimeter system. Under her lead, the project underwent a major front-end electronics consolidation and repair campaign during the long shutdown after LHC Run 1.

This allowed a fully working detector to be in place by the start of Run 2, which was more robust against possible failures, thus improving the quality of the experimental data. The Tile calorimeter upgrade R&D and test activities for the High Luminosity LHC took a huge step forward under her supervision.

Irene was a calm and thoughtful colleague and a good friend to many of us in ATLAS. She was a genuinely nice person to all those with whom she interacted, and we are struggling to come to terms with her passing. She always looked carefully and deeply into every topic, and earned everyone's appreciation and respect along the way. We came to rely on her calmness, quiet wisdom and authority in all Tile calorimeter matters and beyond.

Many messages of condolence have come from right across the Collaboration - meaning from across the globe - universally reflecting the huge respect and friendship everyone held for Irene. We will all miss her dearly.

Our thoughts are with Irene's husband Ilias and their daughters Paulina and Natalia.

*Her friends and colleagues in ATLAS*

# CATHERINE MAGNIER (1968 - 2016)

**Catherine, you arrived at CERN in May 2000 as a mechanical draughtswoman in the TS department's mechanical studies office.**



In keeping with your nature, your arrival was very discrete, but you soon became well known and appreciated by all thanks to the skill, professionalism and perfectionism that you brought to the projects on which you worked.

Following on from your involvement and success in studies for the LHC's collimators and electrical feed boxes, the Hiradmat test area and the complete renovation of the PS complex access control system, you joined the High-Luminosity LHC project in February 2014.

We must also mention your interests outside of work, including motorbikes, botany and fish-keeping, which you pursued with the same passion and thirst for knowledge that you brought to your work. The messages and tributes received since your death have only served to reinforce our memory of you as a beautiful and charming person – a memory that will stay with us forever. Rest in peace.

*Your friends and colleagues*

We deeply regret to announce the death of Catherine Magnier on 31 May 2016. Catherine Magnier, who was born on 4 November 1968, worked in the EN department and had been at CERN since 24 May 2000.

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

*Social Affairs  
Human Resources department*

## DIRECTOR GENERAL PRESENTATION TO PERSONNEL

Dear Colleagues,

Many important discussions are scheduled for the upcoming Council Week (13-17 June) on topics including the Medium-Term Plan, the Pension Fund and other matters of great relevance to us.

I would therefore like to share the main outcome of the week with you and I invite you to join me and the Directors in the Main Auditorium at 10 a.m. on Thursday 23 June. The meeting will last about one hour and a webcast will also be available.

Best regards,

Fabiola Gianotti

**DG presentation to personnel**  
**Thursday 23 June at 10 am**  
**Main Auditorium**

*Retransmission in Council Chamber, IT Auditorium, Kjell Jonhsen Auditorium, Prevessin 864-1-C02*

*Webcast on [cern.ch/webcast](http://cern.ch/webcast)  
More information on the event page:  
[cern.ch/go/b6QC](http://cern.ch/go/b6QC).*

## NEXT HR DEPARTMENT PUBLIC MEETING

Dear Colleagues,

I am pleased to invite you to the next public meeting organized by the HR Department, which will take place on **Tuesday 28 June at 15:00 in the Council Chamber**.

**A drink will be served after the meeting as of 16:30**

This meeting will be the opportunity to revisit the specificities of the Career Structure measures and Benchmark Jobs, what they entail and how they will be implemented, and to answer your questions.

This meeting is also important for me on a personal note, as I will bid you farewell, at least for a few years, taking special leave as of 1 August 2016 to take up the position of Director-General for Human Resources at the European Central Bank in Frankfurt.

Should you not be able to attend the meeting, it can also be followed via Webcast and the recording will be made available on Indico.

I look forward to meeting you.

Best regards,

Anne-Sylvie Catherin  
*Head of the Human Resources Department*

## CHANGE TO MOBILE TELEPHONY COVERAGE AND BILLING IN FRANCE

**Following recent discussions with the French and Swiss authorities, it has become clear that it is not permitted for a mobile telephony provider from one host state to transmit signals from the territory of the other. As a result, the Swisscom transmitters in France will be turned off on 11 July. From that date, coverage in France will be provided by Orange France. Users with a private subscription will be pleased to note that they will again have the ability to identify calls as private as from 18 July.**

In order to ensure that you can still be contacted by your colleagues, please make sure that you have enabled roaming for voice calls. Instructions for common phone models

are available at <https://cern.ch/gsm-france/content/instructions>. If you make use of data services, you will also need to enable data roaming to, for example, access your email whilst in France, but note that use of data services will be charged.

Special arrangements have been put in place by Swisscom to ensure that key features of our mobile telephony service (e.g. the 16xxxx or 7xxxx short-form dialling) will work from both networks.

A notable benefit of the new arrangement is that even the "Basic" CERN mobile phone subscriptions will be able to make and receive calls in Switzerland, Ain, Savoie and Haute-Savoie. However, the obvious drawback is that calls and mobile data usage in France, even in the Pays de Gex, will now be charged. CERN management has agreed that calls to or from CERN numbers (and also fixed line phone numbers in the local area) will be included in the monthly subscription. Calls elsewhere, however, may be more expensive from July 11 and data traffic will be billed in full.

For further details of what this change will mean for you, please see the list of "Frequently asked questions": [cern.ch/go/9GR9](http://cern.ch/go/9GR9). Users with private subscriptions are particularly encouraged to consider carefully whether or not they wish to maintain their private subscription: CERN will not consider any request for reimbursement of charges for voice calls or data usage.

*IT Department*

## NEW GATE FOR PEDESTRIANS AND BIKES ON PRÉVESSIN SITE

On Wednesday 1 June, the SMB Department announced the opening of a new pedestrian and bike automated gate on the Prévessin site, near the "Déchetterie" of Saint-Genis-Pouilly, on the road "Chemin du Moulin des Ponts".

The gate is open to all CERN personnel 24h/24h with their access card. (Find it on the GIS website).

This gate was generously financed with the help of the EN, BE and TE Departments, and the planning and construction were completed in record time by the team taking care of CERN site access.

The timing is perfect for the start of the Bike2Work initiative, which started on 1 June. A record number of 136 teams signed up. If you want to participate, it is not too late, you can sign up on: [cern.ch/go/fv8J](http://cern.ch/go/fv8J).

We remind that safe commuting is imperative. It is now possible to cycle from the CERN hostel in Saint-Genis-Pouilly to the CERN Prévessin site using quiet back roads to get to the new entrance on "Chemin du Moulin des Ponts". So from now on you can all avoid to cycle on the route nationale (D35).

## TELEPHONY USER SURVEY

**Let us know your needs to better plan the transition to a new CERN telephony system.**

CERN is planning to upgrade its telephony network and replace the system with a new and modern VoIP infrastructure. We strive to make this transition as beneficial and smooth as possible for you. Please let us know more about your current working environment, expectations and suggestions by responding to this survey: <https://cern.ch/tel-survey>.

The more answers we get, the better the new system will serve everyone in the future. The survey will take you about five minutes to complete; we are counting on your feedback!

IT Departement

## CERN ENTREPRENEUR MIXER | 21 JUNE | PAS PERDUS

CERN Knowledge Transfer group is hosting an Entrepreneur Mixer, an event dedicated to building bridges between CERN innovative entrepreneurs. This will be a unique

opportunity to discover business projects initiated by former CERN people, and to see how CERN technology is being exploited by start-up companies.

**The deadline for registration is Friday, 17 June.**

For more information, please visit the Indico page of the event: <https://indico.cern.ch/event/537167/>.

## 10% DISCOUNT AT NOVAE RESTAURANTS FOR STUDENTS

**A 10% discount will be granted for students dining in restaurants 1 and 2 (on the Meyrin site) during the summer from 15 June 2016 to 15 September 2016.**

A special badge will be issued by the respective secretariats if the student fulfills the following criteria:

- Is under 25 years old;
- Is in possession of a student card issued by a University or college;
- Has a CERN contract > 1 month (Users, Summer Students, Trainees, etc).

This badge and the CERN access card will have to be shown at the Novae restaurants in order to benefit from this discount.

## APPLICATIONS OPEN FOR THE PORT 2016: HUMANITARIAN HACKATHON

Do you fancy donating your brain to a good cause for 60 hours? Would you like to apply your knowledge and skills to solving humanitarian challenges? Are you motivated to demonstrate the value of science to society?

Apply for our humanitarian hackathon taking place in IdeaSquare at CERN, from the 14 to the 16 October. You will work in an interdisciplinary team on challenges proposed by international organisations, humanitarian NGOs and academic institutions, e.g. ICRC, Handicap International, Global Humanitarian Lab, University of Geneva and Anglia Ruskin University.

### Example topics:

- Better emergency shelters
- Reducing risks posed by counterfeit drugs
- Sound for health
- Safe & clean field disposal of medical waste

Sixty hand-picked innovators will be assembled into teams six weeks ahead of the event to give time for a "virtual preparation", where you can dive into the problem, assisted by field experts, and start to conceptualise a possible solution.

The application period is open until 15 June - find out more on our website : [theport.ch](http://theport.ch) and get ready to change the world.

Apply on [cern.ch/go/b6QC](http://cern.ch/go/b6QC)! This is your chance to have an impact on our future!

## PRESENTING CINEGLOBE ESTIVAL! | 6 - 10 JULY

**Join CineGlobe under a projected starry sky for a film festival and games with a neuroscience twist.**

The 6th edition of the CineGlobe International Film Festival at CERN will take place during the first week of July 2016 (on the Globe grounds at CERN, from Wednesday 6 to Friday 8 July) and then during the *Nuit de la Science* (at the Museum of the History of Science, on July 9 and 10).

The festival will include an open-air cinema, film projections in the Globe of Science and Innovation at CERN, the interactive Emotional Circus (carnival-inspired games played with just the participant's brainwaves) and a special sci-fi edition of the 48 Hour Film Project. The full program will target people of all ages with fun and informative activities such as children's films in the Minima Cinema, and a workshop on the creation of a pinhole camera with an empty Tetra-Pak milk carton.

### Practical information:

*Entry is free. All films in English and French. Onsite food trucks at the Globe during lunch and evening shows.*

*More information on the CineGlobe Estival website: [cineglobe.ch](http://cineglobe.ch).*

# SUN, IMPACTS ON HEALTH, USE IT BUT DON'T ABUSE IT.



## Seminars

### MONDAY JUNE 20, 2016

09:00 **BCD PlatForm** Baryogenesis

### WEDNESDAY JUNE 22, 2016

08:30 **Quarterly induction** HR INDUCTION PROGRAMME - 2nd Part **IT Amphitheatre**

14:30 **ISOLDE Seminar** 111mCd and 199mHg PAC spectroscopy applied to proteins and nucleic acids **26/1-022**

### MONDAY JUNE 27, 2016

16:00 **e-learning** A documentary on computer security - 1st brainstorming **restaurant 2**

### TUESDAY JUNE 28, 2016

09:00 **Summer Student Lecture Programme Course** Introduction Presentation **Main Auditorium**

10:20 **Summer Student Lecture Programme Course** Particle World (1/3) **Main Auditorium**

11:00 **LHC Seminar** Results and prospects in the heavy ion and fixed target programmes of LHCb **Council Chamber**

11:25 **Summer Student Lecture Programme Course** Particle World (2/3) **Main Auditorium**