A SHIP TO EXPLORE NEW ROUTES

SHIP (Search for Hidden Particles) is a proposed new facility for CERN’s SPS accelerator. Its challenging goals include a direct search for hidden non-Standard-Model particles. Predicted by a large number of theoretical models, such particles could have slipped under the radar of the LHC experiments because of their specific features. In its first symposium held at CERN on 2 July, SHiP scientists showed the broader scientific community how they plan to unveil the hidden world.

FREEDOM AND SECURITY: A SOMETIMES DELICATE BALANCE

Like any academic institution, CERN celebrates freedom: freedom of expression, freedom of thought and freedom of movement. Occasionally, however, circumstances beyond our control oblige us to impose certain restrictions.

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LHC REPORT: OUT OF THE CLOUDS

In order for the LHC to deliver intense proton beams to the experiments, operators have to perform “scrubbing” of the beam pipes. This operation is necessary to reduce the formation of electron clouds, which would generate instabilities in the colliding beams.

Electron clouds are generated in accelerators running with positively charged particles when electrons - produced by the ionisation of residual molecules in the vacuum or by the photoelectric effect from synchrotron radiation - are accelerated by the beam field and hit the surface of the vacuum chamber producing other electrons. This avalanche-like process can result in the formation of clouds of electrons. Electron clouds are detrimental to the beam for a few reasons. First, the electrons impacting the walls desorb molecules and degrade the ultra-high vacuum in the beam chamber. Furthermore, they interact electromagnetically with the beam, leading to the oscillation and expansion of the particle bunches. This increases the probability of quenching in the superconducting magnets and entails a luminosity reduction. Fortunately, when electron cloud production becomes sufficiently intense, after a while, it reduces the probability of quenches in the superconducting magnets and entails a luminosity reduction. Fortunately, when electron cloud production becomes sufficiently intense, after a while, it reduces the probability of quenches in the superconducting magnets.

At this point, the machine experts judged that the scrubbing process could only be efficiently continued by packing bunches closer together. It was therefore decided to fill the LHC with beams of many bunches with 25 ns spacing, which is also the target beam configuration for luminosity production in Run 2.

While this switch made the beam operation more challenging and all available weapons to stabilise the beams had to be used, the amount of electron clouds produced around the LHC quickly increased and the scrubbing progressed well. It took about four additional days to reach the point of filling the LHC with 1200 bunches in tightly packed trains of bunches separated by 25 ns. The beam stability, initially difficult to handle, also improved as the electron clouds became less dense in all the machine sectors.

The next step consisted of performing a test run with 50 ns spaced beams filling the whole LHC, which was expected to reduce electron cloud free after the scrubbing period. This was successfully finished this Friday morning (3 July). The machine is now fully validated for 50 ns operation, and very good progress has been made towards 25 ns spacing. However, some work is still needed to prepare the LHC for operation with the full complement of 25 ns spaced bunches later in this year. Another scrubbing run will be performed later in the summer.

Giovanni Rumolo, Giovanni Iadarola and Hannes Bartosik for the LHC team

HILUMI PREPARES ITS CONSTRUCTION PHASE WITH INDUSTRY

The High-Luminosity LHC project is now seeking industrial suppliers and collaborations to start the construction phase and make the high-luminosity upgrade happen. The “Hilumi LHC goes to Industry” event held on 26 June aimed to foster R&D collaborations and knowledge exchange between CERN and small and medium-sized enterprises (SMEs) - the perfect opportunity for them to match their capacity with the requirements of Hilumi.

To reach the 14 TeV and 3000 fb⁻¹ goal of the High-Luminosity LHC, more than 1.2 km of the current LHC machine will need to be replaced with high-technology components that require cutting-edge technologies. Hilumi experts have already identified more than 65 technology areas and even more challenging components that need to be manufactured, assembled and tested before installation begins during Long Shutdown 2 and Long Shutdown 3.

The aim of the “Hilumi LHC goes to Industry” event held on 26 June was to connect CERN with the potential industrial partners that could deal with the specific technical challenges of the High-Luminosity LHC. We would like to increase the number of industrial companies working on Hilumi, says Isabel Rejas-Aznar, High-Luminosity LHC Technical Coordinator. “In line with EU efforts, our goal is to foster R&D collaborations and to push knowledge exchange between research institutes and companies to prepare the field for the deployment of the European commercial potential.”

Last Friday, leading companies in the fields of superconductivity, cryogenics, power electronics, vacuum and high-precision mechanics met High-Luminosity LHC project engineers at the ideaSquare premises to explore the technical and commercial challenges emerging from the design and procurement for the upgraded LHC accelerator, and to match them with state-of-the-art industrial solutions. The event attracted more than 140 industrial

A SHIP TO EXPLORE NEW ROUTES

the hidden particles would continue to fly and would reach the SHiP apparatus, where they would decay and produce detectable particles.

The accurate identification of a hidden particle candidate is only possible if the background can be suppressed to an unprecedented level. The target is a key element in the SHiP setup. “In order to minimise the neutrino background, the proposed target is designed using titanium-zirconium doped molybdenum, a material with a short nuclear interaction length and with dimensions that contain the proton shower,” explains Richard Jacobsson, who is coordinating the implementation of the detector and the facility. “Secondly, a 50 m long active shield would be necessary, which means that the whole SHiP target is designed using titanium-zirconium doped molybdenum, a material with a short nuclear interaction length and with dimensions that contain the proton shower,” explains Richard Jacobsson, who is coordinating the implementation of the detector and the facility.

A word from the DG

FRIDOM AND SECURITY: A SOMETIMES DELICATE BALANCE

Friday, 26 June was just such an occasion. On that day, terrorists chose to commit unfathomable atrocities in France, near Lyon, as well as in Kuwait and Tunisia. The brutality exhibited in all three attacks is beyond comprehension, and I am sure we all feel for the victims and all those touched by these hideous acts.

At times such as this, and on the basis of information that I receive from external agencies, it is my responsibility as Director-General to decide whether measures are needed at CERN, and to apply them at an appropriate level if I deem it necessary. On Friday, based on the information I had at my disposal, I decided that the situation merited extra vigilance at the entrances to CERN for the sake of ensuring the safety and security of everyone on site. I therefore chose to reinforce access control.

Many of you experienced this, and the overwhelming majority of you accepted the minor inconvenience it caused with great patience and courtesy. However, it has been brought to my attention that there were several incidents of aggressive behaviour towards the security personnel at the gates. This is unacceptable. It is in breach of this Organization’s values and, more formally, it is in breach of our Code of Conduct. As such, any confirmed instances of physical or verbal abuse of security personnel will be dealt with accordingly. After all, another important freedom, in addition to those I’ve already mentioned, is the freedom to carry out one’s professional duties in an atmosphere of respect, free from abuse of any kind.

Rolf Heuer

(Continued from page 1)

(Continued from page 1)
KT GETS EVEN CLOSER TO CERN PEOPLE

For several years, the Knowledge Transfer (KT) group has been helping CERN people to disseminate their results, know-how and technologies to new fields of application. This may be anything from working with a school, hospital or company through a licence or collaboration agreement, to securing CERN’s intellectual property rights or even starting a company. In order to maximise the impact of CERN’s work and to provide a service adapted to its users’ needs, the KT group has launched a survey.

Assessing the needs and wishes of the CERN personnel with regard to knowledge transfer activities: this is the goal of the survey that the KT group has launched this week. “Science and engineering are key disciplines in tackling the fundamental challenges facing the planet, such as energy, security, climate change, the sustainability of natural resources and economic resilience,” says Thierry Lagrange, head of the Finance, Procurement and Knowledge Transfer Department. “CERN has a huge role to play as it generates knowledge transfer process by better understanding the needs of the CERN community. The idea is to start a virtuous circle that ultimately will lead to an increased outflow of CERN knowledge, raising CERN’s profile and delivering positive impacts upon society.”

You are invited to participate and share your opinions and experiences. It should take no longer than 5 minutes and your feedback is greatly appreciated. The survey will run until 31 July and can be found at http://cern.ch/go/8Nwf (CERN login required).

Bearing fruits: the Innogex business incubator welcomes its first companies

Among the tools developed by CERN’s Knowledge Transfer group is a network of business incubators that provide logistical, financial and administrative support as well as advice on how to create a company. Innogex, the new business incubator in the Pays de Gex, created in partnership with CERN, has selected its first start-up company: Terabee.

Co-founded by a former CERN employee, Terabee is a company offering aerial inspection and imaging services involving the use of drones.

The company has started to develop distance sensors for robots and drones. Machines equipped with these sensors will be able to carry out automatic inspections of industrial sites. The sensors make use of technology that measures flight time with infrared rays. Infrared technology is cheaper and lighter than lasers and performs better than ultrasound, the two other technologies that are normally used. The sensors were developed in collaboration with CERN and the read-out electronics were based on CERN technology.

Corinne Pralavorio

INTERNATIONAL GENEVA: INTELLECTUAL PROPERTY UNDER THE SPOTLIGHT

On 17 July, the Director-General of the World Intellectual Property Organization (WIPO), Francis Gurry, will present his organisation to CERN people. You are invited to take part and discover the UN’s specialised agency for services, policy, information and cooperation relating to intellectual property.

This is the third in the “International Geneva comes to CERN” series of seminars, which presents other Geneva-based international organisations to CERN’s internal audience. In his seminar, Gurry will discuss how WIPO finds the right balance between the interests of innovators and the wider public and how the IP system aims to foster an environment in which creativity and innovation can flourish.

In 2010, CERN and WIPO signed a collaboration agreement designed to strengthen the partnership between the two organisations. The agreement focuses on four main areas for cooperation, namely: capacity building, awareness raising and knowledge sharing, transfer of technology and know-how, cooperation in the area of technological, scientific and patent information, and options for alternative dispute resolution for intellectual-property-related matters. “Indeed, although CERN fosters an open science environment, it is also aware that knowledge transfer and the protection of intellectual property are key to maximising the technological return of fundamental science to society,” says Maurizio Bona, who is in charge of CERN’s responsibilities with international organisations.

“The two organisations are natural allies in this challenge. This seminar will provide an opportunity for CERN people to get to know the world of patents, copyrights and trademarks better.”

The winning formula that was adopted for the first two seminars will also be implemented in this one: a 45-minute presentation followed by 30 minutes of lively discussion with the audience. Put 17 July in your diary: the seminar will be held in the Main Auditorium and will start at 11.00 a.m. Registration is mandatory for people coming outside CERN. Visit http://indico.cern.ch/event/396466/

Antonella Del Rosso

BEHIND THE SCENES AT MICROCOSM

Works advance at Microcosm in preparation for a progressive opening of the new exhibitions from mid-July onwards.

The Microcosm exhibition space is undergoing a total revamp and will feature many new objects. Old favourites, such as the LHC tunnel model and the Linac module, will be brought up to date with more modern exhibition techniques. Another main thrust of the new exhibitions will be the focus on the people that make CERN work. This is both to show the huge diversity of expertise needed at CERN and also to help students envisage where a career in physics or engineering might take them.

With the project getting the go-ahead last autumn and the closure of the Globe for building works starting from May this year, the new Microcosm exhibition areas will open progressively as and when installations are completed to ensure that summer visitors who haven’t booked a guided tour will have something to visit as early as possible. In July and August, a guide will be present in Microcosm to offer additional explanations.

The garden will also open to visitors, with new access gates allowing CERN cardholders to enter directly without passing through Reception.

Emma Sanders

Construction of the section on the LHC experiments (mid-June 2015).

The sensors were developed in collaboration with CERN and the read-out electronics were based on CERN technology.

Corinne Pralavorio

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Corinne Pralavorio
**NEW ARRIVALS**

On Thursday, 25 June 2015, recently recruited staff members and fellows participated in an introductory session in the framework of the Induction Programme.

**DO YOU HAVE 30 KCHF POCKET MONEY?**

I am not kidding. Do you have 30,000 CHF to spare? Give it to me, so that I can lose it. It won’t even be well invested. We will just give it away by mistake. An easy mistake, some think. A ‘gentlemen’s’ blunder. Unimportant and, really, not at all a big deal. But, of course, that’s wrong - and expensive. Here is my story.

Recently, a student working at CERN was supposed to make a sophisticated simulation of thermal conductivity within a metallic structure, the resulting mechanic stress and the electromagnetic field variations within it. All of his teammates were using a commercial simulation package named - for the sake of brevity - “AllSIM”. But our student failed to download AllSIM from DFS onto his office PC, since that wasn’t where he wanted to use it. He wanted to install it on his laptop so that he could work on his simulation while travelling. However, the CERN AllSIM installation would not allow for this, as roaming usage is not covered by CERN’s AllSIM licence. The student had a need and was not willing to compromise i.e. by using the Windows Terminal Service. Instead, he used Google and quickly found AllSIM for free on a dubious website. Three clicks later, he was ready to go.

Enter the 30 kCHF. AllSIM permanently monitors the usage of its software and is able to identify installations with invalid licence keys. Hence, we, the CERN Computer Security Team, received an e-mail accusing CERN of running their software with a pirated licence - despite the fact that CERN possesses a pool of licences to cover all its needs. Their request: stop the illegal activity immediately, buy official licences from them and make an indemnity payment for “licence infringements”. The price tag, as you might have guessed, was 30 kCHF.

Understandably, the student was shocked when we investigated the case and he was forced to acknowledge the facts. The AllSIM licence was pirated and the student had violated CERN’s Computing Rules just for the sake of convenience. As he was affiliated with a university, CERN passed all costs to them who, in turn, passed them on to the student. So, do you have 30 kCHF to spare?

Through simple ignorance of the CERN Computing Rules, violating proprietary rights and licence conditions, downloading pirated software, and committing copyright infringement, the student has not only placed the Organization’s reputation at risk, but also created a financial liability for CERN, his university and - in the end - himself. So unless you have 30 kCHF to throw away, don’t forget that software vendors make a living by charging for their products. CERN offers a variety of commercial software and has all the corresponding licences you’ll need for your professional use. If you can’t find what you need, please get in touch with the CERN Software Licence Officer, Helge Meinhard (IT/PES).

For further information, questions or help, check: https://security.web.cern.ch or contact us at Computer.Security@cern.ch

Do you want to learn more about computer security incidents and issues at CERN? Follow our Monthly Report: https://cern.ch/security/reports/fr/monthly-reports.shtml

Stefan Lueders, Computer Security Team

**IT’S ROUND 2 FOR POPSCIENCE**

The EU-funded POPScience project welcomed the three poets who are taking part in this year’s edition of the popular programme, which will also celebrate Researchers’ Night this year. During their four days of training at CERN, the three poets had the chance to meet several scientists and become acquainted with the Laboratory’s activity.

During their visit to CERN from 15 to 18 June, Gwyneth Lewis and Susanne Stephan, both members of the “Accademia mondiale della poesia” (World Poetry Academy), and Deborah D’Agostino, representing the International Federation of Business and Professional Women, were introduced by inspiring CERN scientists and become acquainted with the Laboratory’s activity.

The poets will now work on poems inspired by science, which will be presented on 24 September at 6:30 p.m. at the “Made of shadow and light” event hosted by the University of Geneva in the framework of the 2015 POPScience programme. On that occasion, the Nobel laureate in Literature Gao Xingjian will present his anthology of poems and drawings created specifically for the POPScience project on the topic of “darkness.” The event will feature the participation of Sergio Bertolucci, CERN’s Director for Research and Computing. You can already book your place to take part. Send an email to popscience.poetry@cern.ch.
**Ombud’s Corner**

**“SUMMERTIME – AND THE LIVING IS EASY…”**

Summer is the time when everybody feels more relaxed and, while we continue to work hard, we also take the time to pause and get to know our colleagues better. This is a very natural and effective way to re-energise. However, let’s not forget that we remain ‘Cernese’ at all times, and that CERN values continue to guide our interactions even at this time, whether we are at work or enjoying a well-earned break.

Summer at CERN is a wonderful time: instead of just emptying for holidays, the Laboratory welcomes a lot of young – and not so young – people from all over the world. The pleasant weather invites people to gather on the lawns or other common areas to have a drink or meal together. The hostel doesn’t take a break, nor do the restaurants and all these popular gathering places are usually buzzing with people at all hours of the day and well into the night.

As important as these times are for networking and building worldwide contacts within the scientific community, they are also times for us to discover different cultures and learn about how other people work and interact with each other.

Indeed, as these times are when many people come and go, spending short periods of time at CERN, we need to be particularly aware of our different backgrounds, sensitive to the impact that our actions have on one another, and not let a more relaxed atmosphere allow us to fall into inappropriate behaviours, as has unfortunately been known to happen on occasion. If this should happen, however, and if you find yourself subjected to any kind of sexist remarks or bullying or intimidating behaviour, do not hesitate to recall the CERN values, ask a colleague for support in doing so if necessary or seek assistance from your Ombud.

This awareness is particularly relevant when it comes to interacting across the various diversity fronts, keeping in mind aspects such as the fact that some cultures have a more direct communication style than others, avoiding off-colour jokes of a sexist or nationality-based nature, taking the time to understand each other’s perspectives, ensuring that minority groups or individuals are included in our interactions in a respectful and sensitive manner and yes, just generally remembering that the CERN Code of Conduct applies to us all regardless of the time of the year or the type of activity in which we are engaged.

Whether we plan to stay in this Organization for only a few weeks over the summer or we expect to be here for many years, our interactions with our colleagues will always play a rich and vital part in our CERN experience and memories – let us all work together to ensure that this remains a positive time for all, long- or short-term colleagues alike!

**Contact the Ombud Early!**

All previous Ombud’s Corners can be accessed in the Ombud’s blog [http://cern.ch/go/P8Dm](http://cern.ch/go/P8Dm). Svetlana Datta-Cockerell

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**Take note**

**GOING ON HOLIDAY? TRAVELLING ON DUTY? DO YOU KNOW WHAT TO DO IF YOUR MOBILE PHONE IS LOST OR STOLEN?**

It’s summertime and many of us will be going on holiday, perhaps far away from Geneva. Duty travel also takes many of us far away from CERN from time to time. You probably know how to cancel your credit cards if they are lost or stolen, but do you know how to block your CERN mobile phone from use?

Recently, one user waited until returning to CERN to block theirs which was enough time for the thief to run up a substantial phone bill. Please make sure the same doesn’t happen to you!

If your phone is lost or stolen:

1. **During working hours:** call the Telecom Lab on +41 22 767 2480 or the CERN Switchboard on +41 22 767 6111 as soon as possible and provide:
   - your telephone number,
   - your name / first name / department.
2. **Outside working hours:** call the Swisscom hotline as soon as possible on:
   - +41 800 55 64 64 (in Switzerland)
   - +41 62 286 12 12 (outside Switzerland).

You will also need to report the loss or theft in accordance with CERN’s official procedure, which means you at least need to make a report to the local authorities and then complete the declaration of loss or theft form.

Please note that you must follow these steps even if you are using your own mobile phone. The loss of the SIM card exposes CERN (and you if you have a private subscription) to financial loss if the subscription is abused.

This information, as ever, can be found on the CERN mobile phone website [http://cern.ch/go/bSM](http://cern.ch/go/bSM), where there is a dedicated information page for loss and theft.

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**WORK ON THE BUILDING 4 CAR PARK AND CLOSURE OF ENTRANCE A**

From 6 July to 31 October 2015, the GS department will be carrying out renovation work on the car park next to Buildings 4 and 5. This work is aimed at improving safety on and around the car park for all users, particularly children attending the nursery school, pedestrians and cyclists.

The work on the car park will be conducted in two stages so that half of the parking spaces will always be available, in order to limit the impact on users as much as possible (the closed-off areas will be clearly indicated). When the work is completed, the car park will have been completely renovated, with new surfacing and road markings, high-quality lighting and more parking spaces (+5%).

During the work, part of the car park will be inaccessible, which is likely to make it more difficult to find a parking space. We therefore invite you to park in the Globe car park during this period.

The renovation work will also affect Entrance A (Route Bell), which will be fitted with a fully automated road gate, similar to the one at Entrance C. For increased convenience and safety, two turnstiles for access by pedestrians and cyclists will also be installed. Entrance A will also be closed from 6 July but should be operational again by the end of September.

We thank you for your understanding and apologise for any inconvenience.

**GS Department**

**ANNOUNCEMENT BY THE INTERNAL TRANSPORT SERVICE**

The Shipping Service requests all users of wooden pallets, freight containers and lids that are no longer in use to contact the Internal Transport Service of the GS department (George Truelove), which is responsible for collecting and returning them to the Goods Reception Service in Buildings 904 and 194.

Please also contact Mr. Truelove if you receive an order that is not meant for you.

**Internal Transport Service**

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**DOING BUSINESS WITH CERN**

The Procurement Service, in collaboration with the Communications group’s Design team, has recently launched a new information campaign targeted at companies wishing to supply their products and services to CERN. This campaign comprises:


This campaign is intended for Member State firms with whom CERN is yet to do business. The key objectives are:

- To emphasise that CERN can be considered a major customer across a wide range of activities;
- To present CERN’s procurement procedures in a dynamic and digestible way;
- To highlight the information available on CERN’s procurement website: [http://procurement.web.cern.ch](http://procurement.web.cern.ch).

Furthermore, a new section called ‘Having a contract with CERN’ is also now available. This section is designed for companies wishing to know more about CERN’s values, the General Conditions of CERN Contracts, transport and delivery, invoicing, working on the CERN site and the use of the CERN logo, etc.

Developing a coherent message across a variety of media required the development of a clear visual identity incorporating CERN’s values. To achieve this, the Communications group’s Design team worked to put this identity into place using images of CERN’s buildings, the experiments and particle animations to root the campaign’s message in some of the Laboratory’s iconic elements. As the animation contains a large amount of information, a clean and modern style was selected.

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**SUMMER RESTAURANT OPENING TIMES**

**Restaurant No. 1:** Open as usual in July and August. Open from 7 a.m. to 10 p.m. on Tuesday, 10 September (Junior genevieve).

**Restaurant No. 2:** Open as usual in July and August. Closed on Saturday, 10 September (Junior genevieve) and Friday, 11 September. The Brasserie (table service) will be closed from Monday, 4 August to Friday, 11 September.

**Restaurant No. 3:** Open as usual in July and August, but closed on Saturday, 1 August; Saturday, 15 August; Thursday, 10 September (Junior genevieve) and Friday, 11 September.

**Snack bar in Building 54:** Closed from Monday, 4 August to Friday, 11 September.

**Snack bars in Buildings 13, 30 and 6:** Closed on Thursday, 10 September (Junior genevieve) and Friday, 11 September.

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**PROVINCE OF CREMONA | 23 JULY - 7 P.M. | MAIN AUDITORIUM**

You are very warmly invited to the opening presentation of Fragment: In’s residency at CERN.

The lecture will be followed by a drinks reception at 8.30 p.m. Doors open at 6.30 p.m.

Fragment.In are the winners of Collide@CERN Pro Helvetia, formed by Laura Perrenoud, Simon de Diesbach, and Marc Dubois. They will present their artistic work along with their CERN scientific inspiration partner, who will present his/her work on science. In their proposal, Fragment.In has a unique, original and creative approach to data visualization.

We look forward to having them at CERN.

Collide@CERN is the three month residency programme providing artists with time and space to reflect, research and renew their artistic practice. The lecture is open and is free to the public and you are very welcome to bring guests and friends.

Any questions please contact Julian Calo, Coordinator of Arts@CERN [julian.calo@cern.ch](mailto:julian.calo@cern.ch).

We very much look forward to welcoming you.

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**Public Lecture Collide@CERN**

**PRO HELVETIA | 23 JULY - 7 P.M. | MAIN AUDITORIUM**

More information at: [http://cern.ch/go/qj8m](http://cern.ch/go/qj8m).

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** deineblog.ch**

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**Public Lecture Collide@CERN**
COMING SOON - LAUNCH OF E-LEARNING INITIATIVE FOR SUPERVISORS

In early July, the Learning and Development group is launching a new learning initiative specifically targeted at supervisors here at CERN. With the assistance of experts on the subject, we have designed an exclusive series of five e-learning modules. These modules will help supervisors to synthesise some of the important processes that influence and impact their daily work and build key competencies as people managers.

Each module may take up to a maximum of 60 minutes to complete and covers the following topics:
- CERN as an Organisation
- People Management (Part 1)
- People Management (Part 2)
- Financial Management
- Administrative Information Tools for Supervisors

Supervisors will receive an invitation from the L&D group to access the modules on a dedicated e-learning space created on SharePoint. We recommend that all newly appointed supervisors access and complete the five modules within the first month of taking up their supervisory role.

For more information, please contact your HRA, your DTO or the Learning and Development group.

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FRIDAY JULY 10, 2015
09:15 Summer Student Lecture Programme Course Introduction to Statistics (4/4) Main Auditorium
10:15 Summer Student Lecture Programme Course Nuclear Physics at Isolsde (3/3) Main Auditorium
11:00 Detector Seminar New TOTEM Roman Pot timing detectors Salie Anderson
11:15 Summer Student Lecture Programme Course Detectors (2/5) Main Auditorium

MONDAY JULY 13, 2015
09:15 Summer Student Lecture Programme Course Electronics, DAQ & Trigger (1/3) Main Auditorium
10:15 Summer Student Lecture Programme Course Detectors (3/5) Main Auditorium
11:15 Summer Student Lecture Programme Course Electronics, DAQ & Trigger (2/3) Main Auditorium

TUESDAY JULY 14, 2015
09:15 Summer Student Lecture Programme Course Flavour Physics and CP Violation (1/4) Main Auditorium
10:15 Summer Student Lecture Programme Course Detectors (4/5) Main Auditorium
11:00 LHC Seminar Seminar on ALICE results Main Auditorium
11:15 Summer Student Lecture Programme Course Electronics, DAQ & Trigger (3/3) Main Auditorium

WEDNESDAY JULY 15, 2015
09:15 Summer Student Lecture Programme Course Flavour Physics and CP Violation (2/4) Main Auditorium
10:15 Summer Student Lecture Programme Course Detectors (5/5) Main Auditorium
11:15 Summer Student Lecture Programme Course Neutrino Physics (1/3) Main Auditorium

THURSDAY JULY 16, 2015
09:15 Summer Student Lecture Programme Course Triggers for LHC Physics Main Auditorium
10:15 Summer Student Lecture Programme Course Flavour Physics and CP Violation (3/4) Main Auditorium
11:15 Summer Student Lecture Programme Course Neutrino Physics (2/3) Main Auditorium

SATURDAY JULY 18, 2015
09:15 Summer Student Lecture Programme Course Neutrino Physics (3/3) Main Auditorium
10:15 Summer Student Lecture Programme Course Neutrino Physics (2/4) Main Auditorium
11:15 Summer Student Lecture Programme Course Neutrino Physics (3/3) Main Auditorium

SUNDAY JULY 19, 2015
08:00 HASCO Summer School HASCO Summer School 2015 HS5

FRIDAY JULY 17, 2015
09:15 Summer Student Lecture Programme Course Neutrino Physics (3/3) Main Auditorium
10:15 Summer Student Lecture Programme Course Flavour Physics and CP Violation (4/4) Main Auditorium
11:00 International Geneva WIPO Director-General introduces WIPO to the CERN internal audience Council Chamber
11:15 Summer Student Lecture Programme Course From Raw Data to Physics Results (1/3) Main Auditorium

SATURDAY JULY 18, 2015
09:30 APPEAL - University of Oxford Accelerator and Particle Physics Education at A-Level - APPEAL 6

MONDAY JULY 20, 2015
09:15 Summer Student Lecture Programme Course Beyond the Standard Model (1/5) Main Auditorium
10:15 Summer Student Lecture Programme Course SM Physics at Had. Colliders (1/3) Main Auditorium
11:15 Summer Student Lecture Programme Course From Raw Data to Physics Results (2/3) Main Auditorium

TUESDAY JULY 21, 2015
09:15 Summer Student Lecture Programme Course Beyond the Standard Model (2/5) Main Auditorium
10:15 Summer Student Lecture Programme Course SM Physics at Had. Colliders (2/3) Main Auditorium
11:00 LHC Seminar Seminar on CMS results Main Auditorium
11:15 Summer Student Lecture Programme Course From Raw Data to Physics Results (3/3) Main Auditorium

MONDAY JULY 27, 2015
09:15 Summer Student Lecture Programme Course Beyond the Standard Model (3/5) Main Auditorium
10:15 Summer Student Lecture Programme Course SM Physics at Had. Colliders (3/3) Main Auditorium
11:15 Summer Student Lecture Programme Course From Raw Data to Physics Results (4/3) Main Auditorium

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Learning and Development group