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(http://home.cern/cern-people/announcements/featured/feed) CERN: Announcements – featured for CERN people (http://home.cern/cern-people/announcements)

Exhibition for the 45 years of the Long-Term Collections (http://home.cern/cern-people/announcements/2016/10/exhibition-45-years-long-term-collections) October 3, 2016

CERN Staff Association Since 1971, under the auspices of the Staff Association, the LTC have supported 74 humanitarian projects to help the least fortunate people on the planet. For more information, please visit this website and see the article published in the Echo No. 254. In the framework of the exhibition, an information session and a call [...]

Stefania Pandolfi

Coding Pi Science Day | 7-8 October (http://home.cern/cern-people/announcements/2016/09/coding-pi-science-day-7-8-october)
September 30, 2016

The CERN Micro Club and the CERN IdeaSquare (in partnership with Google Education and EU Code Week) is organising an exceptional educational event around three scientific kits based upon the Raspberry Pi mini-computer: The Poppy Ergo Jr Robotic Arm, invented by the Flowers project team at Inria Bordeaux Sud-Ouest Research Center, ENSTA Paris Tech (French Institut national de recherche [...]

Stefania Pandolfi

Bike to work safely (follow-up) (http://home.cern/cern-people/announcements/2016/09/bike-work-safely-follow) September 29, 2016 Simon Baird (HSE Unit Head) Following a recent article about safe cycling, the Bulletin received a request for more details on the type of accidents that are reported. An analysis of the 38 accidents involving bicycles reported this year up to the end of August reveals that the most common single cause of accidents [...]

Stefania Pandolfi

CERN Accelerator School (CAS) (http://home.cern/cern-people/announcements/2016/09/cern-accelerator-school-cas) September 29, 2016 Registration is now open for the CERN Accelerator School's specialised course to be held in Erice, Italy from 10-19 March, 2017. The course will be of interest to staff and students in accelerator laboratories, university departments and companies manufacturing accelerator who wish to learn about accelerator science and technology. Further information can be found at http://indico.cern.ch/event/451905/ (http://indico.cern.ch/event/451905/) and http://cas.web.cern.ch/cas/IET2017/IET-advert.html (http://cas.web.cern.ch/cas/IET2017/IET-advert.html)

Stefania Pandolfi

ESI schools in January: JUAS and ESIPAP (http://home.cern/cern-people/announcements/2016/09/esi-schools-january-juas-and-esipap)
September 29, 2016

Registration for the 2017 sessions of the Joint Universities Accelerator School (JUAS) and the European School of Instrumentation in Particle and Astroparticle Physics (ESIPAP) is now open. Applications are welcome from staff, fellows and post-graduate students wishing to further their knowledge in the field. The deadline for submission of the [...]

Stefania Pandolfi

Springer Publishing Booth | 4 - 5 October (http://home.cern/cern-people/announcements/2016/09/springer-publishing-booth-4-5-october)
September 29, 2016

In the spirit of continuation of the CERN Book Fairs of the past years, Springer Nature will be present with a book and journal booth on 4 and 5 October, located as usual in the foyer of the Main Building. Some of the latest titles in particle physics and related fields will be on sale. You are [...]

Stefania Pandolfi

IT User Community Survey (http://home.cern/cern-people/announcements/2016/09/it-user-community-survey) September 29, 2016

Peter Jones (IT-CDA-WF) We want to use this survey to better understand how the user community uses their devices and our services, and how the delivery of those services could be improved. You will need to authenticate to complete the survey. However please note that your responses are confidential and will be compiled together and analysed as a [...]

Stefania Pandolfi

Working safely with electronics racks (http://home.cern/cern-people/announcements/2016/09/working-safely-electronics-racks)
September 29, 2016

Simon Baird (HSE Unit Head) Inside an electronics rack: danger could be lurking if the rack is not powered off. Think of CERN and you'll probably think of particle accelerators and detectors. These are the tools of the trade in particle physics, but behind them are the racks of electronics that include power supplies, control [...]

Stefania Pandolfi

Heating being put into service (http://home.cern/cern-people/announcements/2016/09/heating-being-put-service) September 29, 2016
The CERN heating team SMB-SE The SMB-SE group would like to inform you that, the central heating will start this year, on Monday 3rd
October 2016, and will be progressively and depending on the weather forecast put into service throughout. All buildings will have heating within the following few days. Thank you for your understanding.

Stefania Pandolfi

Exceptional closure of the Medical Service on 11 October (http://home.cern/cern-people/announcements/2016/09/exceptional-closure-medical-service-11-october) September 29, 2016

CERN Medical Service In the event of a medical emergency, please call 74444 (Fire Brigade). Thank you for your understanding. Stefania Pandolfi

(http://home.cern/images/feed) CERN featured images (http://home.cern/images)

LHCb lead collisions (http://home.cern/images/2015/11/lhcb-lead-collisions) November 26, 2015

Lead ions collide in the LHCb detector (Image: LHCb) For more information about this image visit the CERN Document Server.

Cian O'Luanaigh

Keep on truckin' (http://home.cern/images/2015/11/keep-truckin) November 18, 2015

This truck creates vibrations in the ground to measure how seismic waves travel through the rock beneath the surface (Image: Sophia Bennett) For more information about this image visit the CERN Document Server.

Cian O'Luanaigh

RFQ up close (http://home.cern/images/2015/11/rfg-close) November 12, 2015

This entry for the CERN Photowalk 2015 contest shows detail from a radiofrequency cavity - a structure that accelerates charged particles (Image: Gaetan De Freitas) For more information about this image visit the CERN Document Server.

Cian O'Luanaigh

Moving HiRadMat 27 (http://home.cern/images/2015/11/moving-hiradmat-27) November 3, 2015

The HiRadMat 27 apparatus on its way to a cavern where it will receive proton beams from the Super Proton Synchrotron for fixed target experiments (Image: Maximilien Brice/CERN) HiRadMat (High-Radiation to Materials) is a facility at CERN designed to provide high-intensity pulsed beams of particles, to test material samples as well as accelerator component assemblies in [...]

Cian O'Luanaigh

First magnets from CERN to SESAME (http://home.cern/images/2015/10/first-magnets-cern-sesame) October 22, 2015

On Monday 19 October, CERN bid farewell to two containers of magnets. Their destination: SESAME, the synchrotron light source under construction in Jordan (Image: Jacques Fichet/CERN) The containers hold 31 sextupoles, produced in Cyprus and France, and 32 quadrupoles, produced in Spain and Turkey. The magnets will rejoin 8 dipoles (from the UK) that are already [...]

Cian O'Luanaigh

CERN Photowalk 2015 (http://home.cern/images/2015/09/cern-photowalk-2015) September 30, 2015

A photographer takes part in the Global Physics Photowalk at CERN (Image: Maximilien Brice/CERN) For more information about this image visit the CERN Document Server.

Cian O'Luanaigh

Safety tractors (http://home.cern/images/2015/09/safety-tractors) September 15, 2015

The first Towing Tractor training course took place at the Safety Training Center at Prévessin in December 2014 (Image: Christoph Balle/CERN) For more information about this image visit the CERN Document Server.

Cian O'Luanaigh

<u>Power Electronics and Applications (http://home.cern/images/2015/09/power-electronics-and-applications)</u> September 11, 2015 CERN Director-General Rolf Heuer addressed the Conference on Power Electronics and Applications in Geneva this week (Image: Sophia Bennett/CERN) For more information about this image visit the CERN Document Server or the conference website.

Cian O'Luanaigh

<u>Tracker hackers (http://home.cern/images/2015/09/tracker-hackers)</u> September 7, 2015

Workers assemble the ATLAS SemiConductor Tracker at CERN, which will take precision measurements of particles in the ATLAS detector (Image: ATLAS/CERN) The SCT system is designed to provide eight precision measurements per track in the intermediate radial range, contributing to the measurement of momentum, impact parameter and vertex position. More about the tracker. For more [...]

Cian O'Luanaigh

Monitoring the monitors (http://home.cern/images/2015/09/monitoring-monitors) September 2, 2015

From the ATLAS control room, a man peruses screens showing the activity of subdetectors on the ATLAS experiment (Image: Silvia Biondi) For more information about this image visit the CERN Document Server.

Cian O'Luanaigh

(http://home.cern/about/updates/feed) CERN: Updates for the general public (http://home.cern/about/updates)

One month to go until TEDxCERN 2016 "ripples of curiosity" (http://home.cern/about/updates/2016/10/one-month-go-until-tedxcern-2016-ripples-curiosity) October 6, 2016

Under the theme 'ripples of curiosity', TEDxCERN will explore curiosity and the innovations it sparks. (Image: Maximillien Brice/ CERN) This year TEDxCERN will explore how ideas that started as mere ripples in science, technology and education are converging and creating waves of change. On Saturday 5 November 2016 CERN will host the fourth edition of TEDxCERN, [...]

Harriet Kim Jarlett

<u>Ukraine becomes an associate member of CERN (http://home.cern/about/updates/2016/10/ukraine-becomes-associate-member-cern)</u>
October 5, 2016

Today, Ukraine becomes an associate member State of CERN. This follows official notification to CERN that Ukraine's Parliament has ratified the agreement, signed with CERN in October 2013, granting Ukraine that associate member status. "Our hard and consistent work over the past two decades has been crowned today by a remarkable event - granting Ukraine [...]

Harriet Kim Jarlett

Beamline for Schools 2016: how to be a CERN scientist (http://home.cern/about/updates/2016/10/beamline-schools-2016-how-be-cern-scientist) October 4, 2016

Stefania Pandolfi Students from the Beamline for Schools competition in 2016 working at their experiment (Image: Noemí Carabán Gonzalez/CERN)

Harriet Kim Jarlett

Looking for charming asymmetries (http://home.cern/about/updates/2016/09/looking-charming-asymmetries) September 28, 2016 Stefania Pandolfi A view of the LHCb experimental cavern. (Image: Maximilien Brice/CERN) One of the biggest challenges in physics is to understand why everything we see in our universe seems to be formed only of matter, whereas the Big Bang should have created equal amounts of matter and antimatter. CERN's LHCb experiment is one of [...]

Stefania Pandolfi

<u>Great expectations from fewer collisions (http://home.cern/about/updates/2016/09/great-expectations-fewer-collisions)</u>
September 22, 2016

Stefania Pandolfi Nicola Turini, deputy spokesperson for TOTEM, in front of one of the experiment's so-called 'Roman Pot' detectors in the LHC tunnel. (Image: Maximilien Brice/CERN) Usually, the motto of the LHC is 'maximum luminosity' (in other words, as many collisions as possible). But this week, the LHC will ignore its motto, and perform special [...]

Stefania Pandolfi

Global open access initiative, SCOAP3, set to continue (http://home.cern/about/updates/2016/09/global-open-access-initiative-scoap3-set-continue) September 20, 2016

After three years of successful operation and growth, CERN announces continuation of global SCOAP3 Open Access initiative for another three (Image: Maximilian Brice/ CERN) After three years of successful operation and growth, CERN announced today the continuation of the global SCOAP3 Open Access initiative for at least three more years. SCOAP3, the Sponsoring Consortium for Open [...]

Harriet Kim Jarlett

First physics experiment at HIE-ISOLDE begins (http://home.cern/about/updates/2016/09/first-physics-experiment-hie-isolde-begins)
September 9, 2016

Harriet Jarlett Miniball is one of two detection stations receiving beams from HIE-ISOLDE. It's a very efficient gamma detector array, and will be permanently linked to the beams from HIE-ISOLDE (Image: CERN) This weekend the first physics experiment started running using radioactive beams from the newly upgraded HIE-ISOLDE facility. ISOLDE, the nuclear research facility at [...]

Harriet Kim Jarlett

Romania's flag raised at CERN (http://home.cern/about/updates/2016/09/romanias-flag-raised-cern) September 5, 2016

Corinne Pralavorio The Romanian flag is raised alongside the flags of CERN's other Member States, in the presence of the Romanian

President, CERN's Director-General, the President of the CERN Council and a large Romanian delegation. (Image: Maximilien Brice/ Sophia

Bennett) On Monday, 5 September, the Romanian flag was raised in front of CERN for the [...]

Corinne Pralavorio

Internaut Day and the World Wide Web (http://home.cern/about/updates/2016/08/internaut-day-and-world-wide-web) August 23, 2016 Kathryn Coldham Tim Berners-Lee, inventor of the World Wide Web, pictured in 1994. In front of him shows a computer displaying an early version of the web. (Image: CERN) Internaut day is being celebrated around the world on 23 August to mark the invention of the World Wide Web but the source code was actually [...]

Kathryn Coldham

LHC pushes limits of performance (http://home.cern/about/updates/2016/08/lhc-pushes-limits-performance) August 19, 2016
Harriet Jarlett The LHC tunnel. The machine is surpassing all performance expectations (Image: Jacques Fichet/ CERN) The Large Hadron
Collider's (LHC) performance continued to surpass expectations, when this week it achieved 2220 proton bunches in each of its counterrotating beams – the most it will achieve this year. This is not the maximum the machine [...]

Harriet Kim Jarlett

CERN featured as leader in Global Innovation Index (http://home.cern/about/updates/2016/08/cern-featured-leader-global-innovation-index)

August 15, 2016

Anaïs Rassat The Global Innovation Index 2016 (GII) report, highlights CERN's successful innovation initiatives. (Image: GII) The 9th edition of the Global Innovation Index 2016 (GII) report, launched today, highlights CERN as an example of successful, regional innovation initiatives. Over the last nine years, the GII report has established itself as a leading reference on [...]

Harriet Kim Jarlett

Roundup of ICHEP 2016 conference (http://home.cern/about/updates/2016/08/roundup-ichep-2016-conference) August 10, 2016

Harriet Kim Jarlett

MoEDAL closes in on search for magnetic particle (http://home.cern/about/updates/2016/08/moedal-closes-search-magnetic-particle)

August 10, 2016

Harriet Jarlett The MoEDAL experiment is searching for magnetic monopoles, which could, in theory, carry either a North or a South pole. (Image: Daniel Dominguez/ CERN) The Monopole & Exotics Detector at the LHC, nicknamed the MoEDAL experiment at CERN has narrowed the window of where to search for a hypothetical particle, the magnetic monopole, [...]

Harriet Kim Jarlett

Chicago sees floods of LHC data and new results at ICHEP (http://home.cern/about/updates/2016/08/chicago-sees-floods-lhc-data-and-new-results-ichep) August 5, 2016

One of the many meetings at CERN where physicists prepared to showcase results at ICHEP. (Image: Maximilien Brice/ CERN) Particle physicists are showcasing a wealth of brand new results from the Large Hadron Collider (LHC) experiments at CERN [1] at the "ICHEP 2016" [2] conference in Chicago. With a flood of new data, the experiment collaborations can [...]

Kathryn Coldham

Explore LHC data on new ATLAS educational platform (http://home.cern/about/updates/2016/08/explore-lhc-data-new-atlas-educational-platform) August 1, 2016

Katarina Anthony The "Histogram Analyser" allows to make data cuts and selections directly from the browser. (Image: ATLAS Experiment/CERN) On Friday, 29 July, the ATLAS experiment at CERN released the data from 100 trillion proton-proton collisions to the public. This is the world's first open release of 8 TeV data, which was gathered using the [...]

Stefania Pandolfi

(http://home.cern/scientists/updates/feed) CERN: Updates for scientists (http://home.cern/scientists/updates)

CERN and ETM (Siemens) team up on Industrial Control Systems (http://home.cern/scientists/updates/2016/10/cern-and-etm-siemens-team-industrial-control-systems) October 5, 2016

The human-machine interface helps visualise the measurements from industrial control and automation systems. Day-to-day LHC operations require a large number of highly specialised control systems, one such example being the system to manage the complex LHC's cryogenic system. For over 15 years, CERN has been using a Supervisory Control and Data Acquisition (SCADA) system called Simatic [...] Stefania Pandolfi

Accelerating News Issue 18 now available (http://home.cern/scientists/updates/2016/10/accelerating-news-issue-18-now-available)

October 4, 2016

The latest issue of Accelerating News has just been published. In this issue, find out more about the approval of the ARIES proposal, and why it has been a great success; read about the "Achromatic Telescopic Squeezing" scheme, a new optical scheme which will be a key solution to the various challenges of the HL-LHC upgrade; or find out more [...]

Harriet Kim Jarlett

ICE-DIP project comes to a close with workshop held at CERN (http://home.cern/scientists/updates/2016/09/ice-dip-project-comes-close-workshop-held-cern) September 14, 2016



Andrew Purcell The young researchers have been co-funded by the European Commission as fellows at CERN and enrolled in doctoral programmes at the Maynooth University and Dublin City University (Image: Andrew Purcell/ CERN) ICE-DIP, the Intel-CERN European Doctorate Industrial Program, is a European Industrial Doctorate scheme led by CERN. Building on CERN's long-standing relationship with Intel through CERN openlab, [...]

Harriet Kim Jarlett

Neutrinos take centre stage (http://home.cern/scientists/updates/2016/08/neutrinos-take-centre-stage) August 30, 2016 Matthew Chalmers, Stefania Pandolfi When CERN was founded in 1954, the neutrino was technically still a figment of theorists' imaginations. Six decades later, neutrinos have become the most studied of all elementary particles. Several new and upgraded neutrino-

beam experiments planned in Japan and the US, in addition to the reactor-based JUNO experiment in China, aim [...]

Harriet Kim Jarlett

Ghosts in the machine (http://home.cern/scientists/updates/2016/08/ghosts-machine) August 23, 2016

Christine Sutton Fred Reines, left, and Clyde Cowan, at the controls of the Savannah River experiment, which discovered the electron antineutrino in 1956. (Image: Los Alamos National Laboratory) Christine Sutton describes the pioneering 1956 experiment that proved the existence of the neutrino, and how subsequent particle-beam experiments at CERN and elsewhere contributed to unearthing a [...]

Harriet Kim Jarlett

New AIDA-2020 call for breakthrough detector technologies (http://home.cern/scientists/updates/2016/07/new-aida-2020-callbreakthrough-detector-technologies) July 20, 2016

David Mazur Physicists, engineers, and industry will be interested in a new Proof-of-Concept fund for breakthrough projects from the general field of detector development and testing. The fund will provide up to 200k€ of seed funding to support innovative and societal applications with a focus on industry-oriented applications. The deadline for applying is October 20th [...]

Corinne Pralavorio

Issue 17 of Accelerating News now online (http://home.cern/scientists/updates/2016/07/issue-17-accelerating-news-now-online) July 4, 2016

The latest on CESSAMag magnets being installed at SESAME is just one of the highlights from this issue of Accelerating News (Image credit: SESAME) In this issue of Accelerating News we bring you great stories including: an interview with Professor Tommaso Valletti, the new Chief Economist of the European Commission's DG Competition; highlights from three [...]

Harriet Kim Jarlett

A new issue of the Experimental Physics Newsletter is online (http://home.cern/scientists/updates/2016/07/new-issue-experimentalphysics-newsletter-online) July 1, 2016

You can read about the restart of the LHC from the run coordinators of the LHC experiments and find more news from the other activities of the department. Examples are the completion of the first stage of the HIE-ISOLDE project with the installation of the first two superconducting modules. The results from the CLOUD that $\left[\ldots\right]$

Stefania Pandolfi

On Track: The latest news and results for AIDA-2020 (http://home.cern/scientists/updates/2016/06/track-latest-news-and-results-aida-2020) June 1, 2016

Harriet Jarlett The AIDA-2020 EU project started one year ago, in May 2015, with the aim to group together the High Energy Physics R&D community in Europe - uniting them in the goal of advancing detector technology, and building infrastructures for the future. A new newsletter "On Track" aims to serve the AIDA-2020 project as [...]

Harriet Kim Jarlett

CERN launches Physics Beyond Colliders study group (http://home.cern/scientists/updates/2016/05/cern-launches-physics-beyondcolliders-study-group) May 24, 2016

We are pleased to announce the kick-off workshop of the "Physics Beyond Colliders" Study Group which has recently been set up by CERN Management. The workshop will be held at CERN, Geneva, on September 6-7, 2016. The aim of the workshop is to explore the opportunities offered by the CERN accelerator complex and infrastructure to get [...]

Harriet Kim Jarlett

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