



Cern OpenLab News

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 (<http://openlab.web.cern.ch/feeds/news/rss.xml>)

CERN openlab: supporting the LHC research programme for 15 years (<http://openlab.cern/news/cern-openlab-supporting-lhc-research-programme-15-years>)

Wed, 27/07/2016 - 14:54

Wednesday, 27 July, 2016 (http://openlab.cern/sites/openlab.web.cern.ch/files/styles/large/public/news/images/MAX_0532.png?itok=XD5oWAcK)

CERN openlab held an 'open day' event on 8-9 June. The event provided an opportunity to learn about CERN openlab's work: collaborating with [leading ICT companies and research institutes](http://openlab.cern/about/collaboration_members) to accelerate the development of cutting-edge solutions for the worldwide [LHC](http://home.cern/topics/large-hadron-collider) community, as well as for wider scientific research.

Over the two days, more than one hundred people attended talks on the achievements of [diverse CERN openlab projects](http://openlab.web.cern.ch/technical-areas) over the last year. There were also research posters on display and hands-on technology demonstrations from companies working with CERN openlab, so that attendees could discover the latest ICT innovations.

The event marked exactly 15 years since CERN openlab was established. "Since 2001, this unique public-private partnership has worked to ensure that members of CERN's scientific community have access to the very latest ICT solutions to help them carry out their ground-breaking physics research," says Alberto Di Meglio, head of CERN openlab. "We're proud to continue supporting the LHC research programme in this manner."

At the event, a special award was given to Intel in recognition of the fact the company has been a partner of CERN openlab since the initiative's foundation. The award was presented to [Peter Gleissner](https://newsroom.intel.com/biography/peter-gleissner/), director for the European Union region at Intel Corporation, by [Charlotte Warakaulle](http://press.cern/biographies/charlotte-lindberg-warakaulle-bom-1970-danish), CERN's director for international relations. Intel is currently collaborating with CERN openlab on [projects covering a range of topics](http://openlab.web.cern.ch/about/industry_members/intel), including [code modernisation](http://openlab.web.cern.ch/technical-area/computing-platforms-offline), [high-throughput computing](http://openlab.web.cern.ch/technical-area/data-acquisition-online), and [innovation and entrepreneurship](http://openlab.web.cern.ch/technical-area/intel-innovation-and-entrepreneurship-project-ie).

"Collaboration is central in enabling CERN to fulfil its mission; CERN openlab is a prime example of this," says Frédéric Hemmer, head of the CERN IT Department. "Our ongoing partnership with Intel through the initiative has played a key role in supporting the LHC research programme."

"I would like to thank Intel and the other companies collaborating in CERN openlab — as well as, most importantly, the people themselves — for their terrific efforts in supporting CERN's ground-breaking work," continues Hemmer. "Long may this fruitful collaboration between research and industry continue."

"Intel is very proud in having the possibility to contribute to CERN's LHC programme: since the very inception of CERN openlab, we are convinced that innovation and research are key enabling factors for the European market and for the whole scientific community," says Peter Gleissner, vice president of the Sales and Marketing Group, director of the European Union Region at Intel Corporation.

"On behalf of the CERN openlab team, I'd like to thank our collaborators at Intel and look forward to continuing our work together in support of the research community," says Di Meglio. "I also take the opportunity of this 15th anniversary to thank all the industry partners, contributors, associates, and of course the numerous colleagues at CERN, who, together over the years, have made the undertaking a success."

For more information on the CERN openlab open day event — including presentations given — please visit the [Indico page](https://indico.cern.ch/event/524996/). Photos from the event can be found on [the CERN Document Server](https://cds.cern.ch/record/2160736/).

Categories: [Physics Department - Extern RSS Feeds \(/en/aggregator/categories/1\)](#)

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'Lightning talks' from the CERN openlab summer students (<http://openlab.cern/news/%E2%80%98lightning-talks%E2%80%99-cern-openlab-summer-students>)

Thu, 21/07/2016 - 12:09

Thursday, 21 July, 2016

On Monday 15 and Thursday 18 August, this year's CERN openlab summer students will present their work in dedicated public 'lightning talk' sessions.

In 5-minute presentations, each CERN openlab summer student will introduce the audience to their project, explain the technical challenges they have faced, and describe the results of what they have been working on for the past few weeks.

It will be a great opportunity for the students to showcase the progress they have made so far and for the audience of people from the IT and other CERN departments to be informed about various IT projects, the solutions that the students have come up with, and the potential future challenges they have identified.

This year, the CERN openlab [Summer Student Programme](http://www.cern.ch/openlab/summer-student-programme) (<http://www.cern.ch/openlab/summer-student-programme>) is hosting 39 [students](http://openlab.cern/education/summer-student-programme/list-of-summer-students?field_date_value%5Bvalue%5D%5Byear%5D=2016) (http://openlab.cern/education/summer-student-programme/list-of-summer-students?field_date_value%5Bvalue%5D%5Byear%5D=2016), representing 21 different nationalities for nine weeks.

Bachelor and master students in computer science, mathematics, engineering, and physics have come from all over the world for a summer internship at CERN, working on specialized advanced computing projects with applications in high-energy physics.

As part of the CERN openlab Summer Student Programme, the students have been also invited to attend a series of [lectures](http://openlab.web.cern.ch/summer-students-lectures?field_event_date_value%5Bvalue%5D%5Byear%5D=2016) (http://openlab.web.cern.ch/summer-students-lectures?field_event_date_value%5Bvalue%5D%5Byear%5D=2016) given by IT experts on advanced CERN-related topics and had the opportunity to [visit](http://openlab.web.cern.ch/education/summer-student-events) (<http://openlab.web.cern.ch/education/summer-student-events>) the CERN facilities and experiments, as well as other research laboratories and companies such as [ETH Zurich](https://www.ethz.ch/en.html), (<https://www.ethz.ch/en.html>), [OpenSystems](http://www.open.ch/) (<http://www.open.ch/>), and [EPFL](https://www.epfl.ch/) (<https://www.epfl.ch/>).

The lightning talks will take place in the IT Amphitheatre ([31/3-004](https://maps.cern.ch) (<https://maps.cern.ch>)) from 15:00 to 18:00 CEST on Monday 15 August and Thursday 18 August. Following the students' talks, there will be an opportunity to discuss their work with them over a networking cocktail. For more information, please visit the Indico pages: [15/08/2016](https://indico.cern.ch/event/557789/) (<https://indico.cern.ch/event/557789/>) and [18/08/2016](https://indico.cern.ch/event/557791/) (<https://indico.cern.ch/event/557791/>).

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Winning Intel ISEF students come to CERN (<http://openlab.cern/news/winning-intel-isef-students-come-cern>)

Fri, 01/07/2016 - 17:22

Friday, 1 July, 2016 (<http://openlab.cern/sites/openlab.web.cern.ch/files/styles/large/public/news/images/ISEF%20students%20in%20CERN%202016.png?tok=uOWLZEsV>)

From 11 to 17 June, CERN hosted the 10 young students who won [the CERN Special Award](https://student.societyforscience.org/special-awards-organizations) (<https://student.societyforscience.org/special-awards-organizations>), at [the Intel International Science and Engineering Fair \(ISEF\) 2016](https://student.societyforscience.org/intel-isef) (<https://student.societyforscience.org/intel-isef>). These winners were selected from the 1700 high-school students who participated in the competition.

The competition, which is a programme of [the Society for Science and the Public](https://www.societyforscience.org/) (<https://www.societyforscience.org/>), is the world's largest pre-university science competition. It offers high school students from across the globe a chance to showcase their research into a range of fields.

The winners of the CERN Special Award were selected by Maria Girone and Jan Iven of CERN IT Department and Ian Fisk of Simons Foundation at an Intel ISEF event held in Phoenix, Arizona, US, on 17 May.

The CERN Special Award — funded jointly by Intel and the CERN IT Department — is now in its eighth year. [The winning students](https://indico.cern.ch/event/539439/attachments/1284038/1908841/CERN_INTEL_ISEF_WinnersProfiles2016.pdf) (https://indico.cern.ch/event/539439/attachments/1284038/1908841/CERN_INTEL_ISEF_WinnersProfiles2016.pdf) — aged between 15 and 18 — spoke to researchers at the laboratory and had the opportunity to see exciting technology up close. Sites visited include the [AMS experiment](http://home.cern/about/experiments/ams) (<http://home.cern/about/experiments/ams>), the [Data Centre](http://home.cern/about/computing) (<http://home.cern/about/computing>), the [LEIR accelerator](http://home.cern/about/accelerators/low-energy-ion-ring) (<http://home.cern/about/accelerators/low-energy-ion-ring>), the [Synchrotron](http://home.cern/about/accelerators/synchrotron) (<http://home.cern/about/accelerators/synchrotron>), the [CERN Control Centre](http://home.cern/about/updates/2014/08/technical-troubleshooting-cern-control-centre) (<http://home.cern/about/updates/2014/08/technical-troubleshooting-cern-control-centre>), and the [Antiproton Decelerator](http://home.cern/about/accelerators/antiproton-decelerator) (<http://home.cern/about/accelerators/antiproton-decelerator>). The students also visited several cultural hotspots in the local area, such as Gruyères and Chillon Castle near Montreux.

Sophie Atzpodien, 16, says that what she liked most about the visit was learning about all of the different aspects of the laboratory and how these contribute to fundamental research. "It was an invaluable experience," she says. "I'd love to return to learn more."

"The week has changed my outlook on a career in physics," says Michael Earle, 18. "It all seems so real, so accessible to a student." Amber Yang, 17, agrees: "It's been an amazing experience; I'm leaving CERN with a completely new perspective on life."

During their time at CERN, the students presented five-minute 'lightning talks' on their projects. These focused on areas from IT to materials science and from robotics to astrophysics. The presentations are available via the event's [Indico page](https://indico.cern.ch/event/539439/) (<https://indico.cern.ch/event/539439/>).

"The visit is a great experience for us here at CERN too," says Girone, CTO of CERN openlab, who co-organised the event with other members of the IT Department. "It's a joy to see these passionate young students come here, absorb lots of new information and ask us tough questions."

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Follow the CERN openlab open day via live webcast — marking 15 years of fruitful collaboration (<http://openlab.cern/news/follow-cern-openlab-open-day-live-webcast-%E2%80%94-marking-15-years-fruitful-collaboration>)

Wed, 08/06/2016 - 14:47

Wednesday, 8 June, 2016

CERN openlab is hosting an 'open day' event today and tomorrow at CERN. The event marks 15 years since our unique public-private partnership was established.

Follow the event live via [the webcast \(begins at 12:00 UTC\)](https://webcast.web.cern.ch/webcast/play.php?event=524996) (<https://webcast.web.cern.ch/webcast/play.php?event=524996>) to learn about CERN openlab's work: collaborating [with leading ICT companies and research institutes](http://openlab.web.cern.ch/about/collaboration_members) (http://openlab.web.cern.ch/about/collaboration_members) to accelerate the development of cutting-edge solutions for the worldwide LHC community, as well as for wider scientific research.

Presentations from our industry collaborators will focus on a range of exciting new technologies.

At the event, an award will be presented to Intel in commemoration of the company's 15-year membership — since CERN openlab was founded in 2001. "This award is being given in recognition of Intel's contribution to the LHC research programme," says Alberto Di Meglio, head of CERN openlab. "On behalf of the CERN openlab team, I'd like to thank our collaborators at Intel and look forward to continuing our work together in support of the research community."

For the full event programme, please visit [the Indico page \(https://indico.cern.ch/event/524996/\)](https://indico.cern.ch/event/524996/).

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Wed, 11/05/2016 - 16:17

Wednesday, 11 May, 2016

CERN openlab is organising an 'open day' event for 8-9 June 2016. The event will provide an opportunity to learn about CERN openlab's work: collaborating with [leading ICT companies and research institutes \(http://openlab.cern/about/collaboration_members\)](http://openlab.cern/about/collaboration_members) to accelerate the development of cutting-edge solutions for the worldwide LHC community, as well as for wider scientific research.

The event will take place at CERN in the main auditorium, as well as in the upstairs mezzanine area of the main building. It will feature both talks and posters on the achievements of [diverse CERN openlab projects \(http://openlab.cern/technical-areas\)](http://openlab.cern/technical-areas) over the last year. There will also be hands-on technology demonstrations from companies working with CERN openlab, so that you too can discover the latest ICT innovations.

The event marks 15 years since CERN openlab was established. "Since 2001, this unique public-private partnership has worked to ensure that members of CERN's scientific community have access to the very latest ICT solutions to help them push back the frontiers of physics," says Alberto Di Meglio, head of CERN openlab. "We're proud to continue supporting the LHC research programme in this manner and we're very excited to show you the ground-breaking work we've been doing together with our collaborators during our current phase."

Huawei, Intel, Oracle and Siemens are all partner companies in the current phase of CERN openlab. Brocade, Cisco, IDT, Rackspace and Seagate are contributors, while Yandex and Comtrade are associate members. The European Bioinformatics Institute (EMBL-EBI), the GSI Helmholtz Centre for Heavy Ion Research, Innopolis University, Kazan Federal University, and Newcastle University are all research members.

If you're interested in finding out more about how research and industry can work together in close partnership to drive innovation in support of the scientific community, then this event is for you.

For further details — including registration information — please visit [the Indico page \(https://indico.cern.ch/event/524996/\)](https://indico.cern.ch/event/524996/).

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Wednesday, 11 May, 2016

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The event will take place at CERN in the main auditorium, as well as in the upstairs mezzanine area of the main building. It will feature both talks and posters on the achievements of [diverse CERN openlab projects \(http://openlab.cern/technical-areas\)](http://openlab.cern/technical-areas) over the last year. There will also be hands-on technology demonstrations from companies working with CERN openlab, so that you too can discover the latest ICT innovations.

The event marks 15 years since CERN openlab was established. "Since 2001, this unique public-private partnership has worked to ensure that members of CERN's scientific community have access to the very latest ICT solutions to help them push back the frontiers of physics," says Alberto Di Meglio, head of CERN openlab. "We're proud to continue supporting the LHC research programme in this manner and we're very excited to show you the ground-breaking work we've been doing together with our collaborators during our current phase."

Huawei, Intel, Oracle and Siemens are all partner companies in the current phase of CERN openlab. Brocade, Cisco, IDT, Rackspace and Seagate are contributors, while Yandex and Comtrade are associate members. The European Bioinformatics Institute (EMBL-EBI), the GSI Helmholtz Centre for Heavy Ion Research, Innopolis University, Kazan Federal University, and Newcastle University are all research members.

If you're interested in finding out more about how research and industry can work together in close partnership to drive innovation in support of the scientific community, then this event is for you.

For further details — including registration information — please visit [the Indico page \(https://indico.cern.ch/event/524996/\)](https://indico.cern.ch/event/524996/).

Categories: [Physics Department - Extern RSS Feeds \(/en/aggregator/categories/1\)](#)

[Machine learning and data analytics are hot topics at CERN openlab workshop](http://openlab.cern/news/machine-learning-and-data-analytics-are-hot-topics-cern-openlab-workshop) (<http://openlab.cern/news/machine-learning-and-data-analytics-are-hot-topics-cern-openlab-workshop>)

Wed, 04/05/2016 - 11:58

Wednesday, 4 May, 2016 (<http://openlab.cern/sites/openlab.web.cern.ch/files/styles/large/public/news/images/CO%20ML%20%26%20DA%20workshop.jpg?tok=tbfdG22>)

Last week, CERN openlab held a workshop on machine learning and data analytics. The event, which took place on Friday 29 April, saw experts from both research and industry gather in the [CERN IT Department \(http://information-technology.web.cern.ch/\)](http://information-technology.web.cern.ch/) for a full-day of presentations and lively discussion.

The morning featured presentations from representatives of the four large [LHC \(http://home.cern/topics/large-hadron-collider\)](http://home.cern/topics/large-hadron-collider) experiments — [ALICE \(http://home.cern/about/experiments/alice\)](http://home.cern/about/experiments/alice), [ATLAS \(http://home.cern/about/experiments/atlas\)](http://home.cern/about/experiments/atlas), [CMS \(http://home.cern/about/experiments/cms\)](http://home.cern/about/experiments/cms), and [LHCb \(http://home.cern/about/experiments/lhcb\)](http://home.cern/about/experiments/lhcb) — on their current projects and future challenges in these areas.

During the afternoon, representatives from industry were also invited to give their perspective. This included presentations from CERN openlab partner companies [Intel \(http://openlab.cern/about/industry_members/intel\)](http://openlab.cern/about/industry_members/intel) and [Siemens \(http://openlab.cern/about/industry_members/siemens\)](http://openlab.cern/about/industry_members/siemens), as well as contributors [Cisco \(http://openlab.cern/about/industry_members/cisco\)](http://openlab.cern/about/industry_members/cisco) and associates [Yandex \(http://openlab.cern/about/industry_members/yandex\)](http://openlab.cern/about/industry_members/yandex). The other companies to present at the event were Cloudera, Google, IBM, Microsoft, and Nvidia.

"The event provided a great opportunity for experts from both industry and the LHC experiments to discuss their activities — as well as the challenges they face — in the exciting area of machine learning and data analytics," says Maria Girone, CERN openlab CTO. "We especially appreciated the engagement of all participants in lively and constructive discussions. Over the course of the day many commonalities and areas of potential collaboration emerged."

If you missed the workshop and would like to find out more, please visit [the event's Indico page \(https://indico.cern.ch/event/514434/\)](https://indico.cern.ch/event/514434/). Here you can find slides of the presentations given at the workshop, and more.

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Mon, 02/05/2016 - 18:07

Monday, 2 May, 2016

We would like to thank each of the 1481 students who applied for this year's CERN openlab Summer Student Programme and congratulate the students who have been selected. The full list of successful applicants is available [here \(http://openlab.cern/education/summer-student-programme/list-of-summer-students?field_date_value%5Bvalue%5D%5Byear%5D=2016\)](http://openlab.cern/education/summer-student-programme/list-of-summer-students?field_date_value%5Bvalue%5D%5Byear%5D=2016).

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