

[CERN openlab News](#)

[на сайт →](#)

[Innopolis University joins CERN openlab as a research member](#)

Thursday, 7 April, 2016

Russia's Innopolis University has joined CERN openlab as a research member. The collaboration will focus on modernisation of code used for biological simulation.

Find out more: http://openlab.cern/resources/press_release/european-organization-nuclear-research-cern-and-innopolis-university-signed .

Thu, 07 Apr 2016 15:00:19 +0000[перейти →](#)

[Welcome to openlab.cern](#)

Wednesday, 23 March, 2016

We're pleased to announce that the CERN openlab website now has a new web address: openlab.cern ! The new '.cern' [top-level domain](#) reflects the Organization's international nature and global recognition.

With its history as the birthplace of the World Wide Web, CERN has always been at the forefront of computer networking. So in 2008, when the [Internet Corporation for Assigned Names and Numbers \(ICANN\)](#) opened up applications for top-level domains to new generic names and brands, CERN registered for its own.

Find out more about the history of the web at CERN [here](#) .

Wed, 23 Mar 2016 14:37:18 +0000[перейти →](#)

[Blog: A vibrant exchange of ideas and experiences at the BIWA Summit 2016](#)

Wednesday, 9 March, 2016

In the second of a series of blog posts focusing on CERN openlab's participation in global community events, research fellow Antonio Romero Marin reports back from the recent [BIWA Summit 2016](#) . Antonio is working on [the data analytics as a service project](#) with CERN openlab partner company [Oracle](#) .

I recently had the opportunity to attend — and speak at — the BIWA Summit 2016, which was held at Oracle headquarters in California, US. This conference is centred around the user community of Oracle technologies for business intelligence, big data, and advanced analytics. The program, which had several simultaneous tracks, included sessions by Oracle and industry experts, customer case studies, technical hands-on-labs, and networking events.

The overall quality of the presentations was very high and I was impressed by the technical depth shown in some of them. There were presentations given by Oracle representatives, including Mauricio

Anrango and Alex Ardel, experts in streaming and data analytics technologies. Through these, I could learn technical details about solutions, development challenges, and future plans. At the same time, presentations given by customers and industry experts helped me to learn more about how they use Oracle technologies (some of which we also use at [CERN](#)) to create advanced solutions for their business use cases. The conference also provided a nice environment for establishing contact with private industry and business users, to learn about their work and to share knowledge about common problems and concerns.

In addition, I was able to meet Oracle experts like Mark Hornick, with whom I have been collaborating through CERN openlab. I exchanged ideas and plans with him, as well as with other potential future collaborators. In my opinion, these face-to-face discussions and meetings have a significant positive impact on our collaboration and play a key role in reinforcing the links with our collaborators in CERN openlab.

One of the most important things for me whenever I am invited to speak at an event is to spread the word about CERN and CERN openlab. Even if an important segment of the audience is usually closer to business than research, people are always greatly interested in CERN's work studying the basic constituents of matter — the fundamental particles. They are also often curious to know more about how we collaborate with industry to accelerate the development of cutting-edge solutions for the worldwide [LHC](#) community, as well as for wider scientific research. This positive feedback and the striking level of interest in our work ensures attending such events is always very rewarding.

In conclusion, it was a great experience to attend the BIWA Summit 2016. I enjoyed the sessions and I improved my understanding about a range of technologies. I also gained a wider overview of several fascinating business and industry use cases. For example, I learnt how a company working in the semiconductor industry uses Oracle technologies and machine-learning techniques to speed up root-cause analysis for faults. On top of this, I met lots of interesting people both from Oracle and independent companies, and I had the opportunity to present the work of CERN and CERN openlab to an external community. For all these reasons, I am very glad to have attended the BIWA 2016 Summit and look forward to attending again next year if possible.

Wed, 09 Mar 2016 13:32:44 +0000[перейти →](#)

Blog: Working together to move mountains at the OpenStack Summit

Tuesday, 1 March, 2016

In the first of a series of blog posts focusing on CERN openlab's participation in global community events, research fellow Marek Denis reports on last year's [OpenStack Summit in Tokyo, Japan](#) . Denis is working on [the cloud federation project](#) , which is building on the identity federation functionality developed with [Rackspace](#) and the OpenStack community as part of [CERN openlab's fourth phase](#) to enable easy deployment of applications across different [OpenStack](#) clouds.

[CERN](#) was selected as the winner of [the first ever OpenStack Superuser Award](#) back in 2014, recognising the contributions made by CERN back to the wider OpenStack community. Members of the CERN openlab team are set to participate in [next month's OpenStack Summit in Austin, Texas](#) .

Working as a CERN openlab research fellow means that I work extensively on technologies and software not only with engineers from CERN, but also from collaborating companies. Working on OpenStack upstream usually entails working in a geographically distributed team. The OpenStack identity service (known as 'Keystone') is developed by team of engineers who live in Australia, China, Russia, Switzerland, UK, Canada, USA, *etc.* This means our contact is almost exclusively virtual and spread across different time zones (we hang out on #openstackkeystone on Freenode, an

internet relay chat network). In other words, we don't get to see each other face-to-face too often.

Fortunately, all people involved in OpenStack (both engineers working on OpenStack and operators running clouds) have the chance to gather every six months for an OpenStack summit. This is the time where OpenStack mailing lists and IRC channels get quiet and empty, as most of us are gathering in one place to see what's new in the OpenStack world, listen to our colleagues sharing their experiences, take part in design sessions, and (last but not least) collect a few t-shirts with the OpenStack logo on it.

Summits typically last four or five days, with two major thematic streams: one for operators and companies using OpenStack and one for software engineers working on the OpenStack codebase. As I mainly write code, this second stream is where I spend the majority of my time whenever I am at the summit. During design sessions we sit together at one table and focus on the most important aspects and plans for the next OpenStack release. Topics range from discussions about what can be done to make code more robust and stable, through to how we can make operators' lives easier. These sessions are also a great opportunity for pitching ideas for new features. Things run much more smoothly when everybody is in one room focusing on one single topic.

Each OpenStack summit is also an opportunity for me to finally work directly with people I only know as nicknames on my communicator. I can chat with people who may have helped me in the past to overcome an issue, or whom I perhaps managed to help by sharing my own experiences or ideas. No matter how much we all like technology and computers, it's always better to chat face-to-face.

Another nice aspect of the OpenStack summits is that after demanding and tiring sessions we usually head for parties where we can relax and discuss less official topics over a beverage. 'This less formal setting is key to strengthening and establishing the new connections that underpin our collaborative work on OpenStack.'

Find out more about the upcoming OpenStack Summit in Austin, Texas, [here](#).

Tue, 01 Mar 2016 09:49:47 +0000[перейти →](#)

[Applications now closed](#)

Tuesday, 1 March, 2016

Thank you for your interest in the CERN openlab 2016 Summer Student Programme. As of March 1, 2016, we have ended up with 1481 candidates.

We will be announcing the new selected students by the end of April.

Tue, 01 Mar 2016 13:05:37 +0000[перейти →](#)

[Kazan Federal University joins CERN openlab as a research member](#)

Tuesday, 23 February, 2016

Kazan Federal University in Russia has joined CERN openlab as a research member. The collaboration will focus on modernisation of code used for biological simulation.

Tue, 23 Feb 2016 09:52:07 +0000[перейти →](#)

Less than three weeks left to apply for the CERN openlab Summer Student Programme

Monday, 8 February, 2016

Applications for the 2016 CERN openlab Summer Student Programme are open until 28 February, 2016 (23:59 CET). [Apply now](#) and open a world of possibilities!

More information about the programme is available [here](#) . See what previous students have to say about it in the video below:

Mon, 08 Feb 2016 15:04:29 +0000[перейти →](#)

Applications now open for CERN openlab Summer Student Programme 2016

Tuesday, 1 December, 2015

Applications for the 2016 CERN openlab Summer Student Programme are now open. Apply and open a world of possibilities!

By joining the programme, you will work on ambitious IT projects using some of the latest hardware and software technologies, and see how advanced IT solutions are used in high-energy physics. In addition, you will have the opportunity to attend a series of [lectures](#) developed for the CERN openlab summer students, given by IT experts on advanced CERN-related topics. Included in the programme are also [visits](#) at the CERN facilities and experiments, as well as other research laboratories and companies.

The CERN openlab Summer Student Programme is much more than just a summer at CERN. It can lead to follow-on projects in your home institute. It may even inspire you to become an entrepreneur in cutting-edge computing technologies!

More details on the CERN openlab Summer Student Programme are available [here](#) .

[Apply now on the 'Careers at CERN' website](#) . The deadline for submitting applications is 28 February, 2016 (23:59 CET).

Tue, 01 Dec 2015 12:55:19 +0000[перейти →](#)

Innovation meets entrepreneurship in event at CERN

Friday, 27 November, 2015

On Thursday 26 November, CERN openlab hosted an event on innovation and entrepreneurship. The event, which was organised in collaboration with [the CERN Knowledge Transfer Group](#) and [IdeaSquare](#) , was attended by over 80 people. It was supported by CERN openlab partner company [Intel](#) as part of [a joint project on innovation and entrepreneurship](#) .

“CERN is a unique environment, where technology is pushed to the limits and innovation really happens,” explains Alberto Di Meglio, head of CERN openlab, “Research is a powerful source of innovation. We want to maximise the impact of our research; not only for physics, but also in terms of industrial excellence, societal impacts, return on investment, and value creation.”

During the event, participants had the opportunity to discuss their own business ideas one-to-one with invited experts. They provided tailored advice and helped the participants to assess the technical and business feasibility of their proposals.

The importance of well-balanced teams

The event also featured presentations on commercialisation, public-private partnership, intellectual property, and other topics related to innovation and entrepreneurship.

Andrzej Kusmierz, an assistant professor in the strategy department at the Kozminski University in Poland, spoke about the importance of building balanced teams for start-up companies, explaining that a researcher who has an idea must find people to work with who have different, business-related skills. “It’s important to open your networks, break silos, and build bridges.”

This was echoed by Pawel Bochniarz, who is in charge of innovation and public aid practice at PwC Poland. He stressed the importance of researchers with business ideas building relationships, adding that they must be ready to cede control to others — those with the appropriate skills — when it comes to commercialisation. During his talk, which gave attendees a brief overview of what industry is looking for in partnerships with science, he also spoke of the need for companies of all sizes to innovate: “Competitive advantage is only temporary; innovation is a must, not a choice.”

Further perspectives on innovation, entrepreneurship, and more

Ophir Marko, a patent attorney specialising in start-up companies, who himself has much experience as an entrepreneur, presented attendees with an overview of intellectual property laws. And Bert Quint, a business development director with a strong background in life sciences, gave attendees an overview of some of the emerging healthcare-related areas in which new start-up businesses could potentially provide innovative solutions.

Another perspective was provided by Enrico Giuliani, who is the founder and CEO of a start-up company called Neuron Guard. Having worked as an anaesthesiologist, he came up with a new system of protecting the human brain during emergencies, such as in the case of stroke, cardiac arrest, or traumatic brain injury. He too emphasised the importance of building a good team. “You need to collaborate with others who have a range of competencies,” says Giuliani. ““It’s changed me deeply: it’s given me wealth of experience and knowledge beyond my wildest imagination.” He continues: “Working on a start-up company is a journey: you know where you want to be, but you don’t necessarily know how you’re going to get there.”

“According to the initial feedback we got, the knowledge imparted through the presentations at the event, along with the one-to-one discussion sessions, has equipped the participants with at least a map and a compass for the journey,” concludes Di Meglio.

Stay tuned for more information: a second event will be organised by summer 2016.

[Agenda of the event and Indico link](#)

Fri, 27 Nov 2015 00:58:36 +0000[перейти →](#)

Comtrade joins CERN openlab as an associate member

Thursday, 19 November, 2015

Comtrade is collaborating with CERN to productize the laboratory’s EOS Large Scale Storage System — the keystone of LHC data processing. This will facilitate data access and use by external contributors.

For further information, the Comtrade [press release](#) can also be consulted.

Thu, 19 Nov 2015 14:32:17 +0000[перейти →](#)