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Chalmers will lead Sweden's participation in the project to build the world's largest radio telescopes.

BIG SCIENCE SWEDEN • NEWSLETTER



Patrik Carlsson
Co-Director Big Science Sweden

Dear Big Science Sweden members and friends,

Autumn is upon us, and Big Science Sweden is as active as ever, arranging events and activities to strengthen business opportunities. Keep an eye on our calendar to make sure you don't miss anything.

One recent event that proved very popular was our AIMday Big Science Technology. Stimulating discussions were held in the workshops about the challenges identified by the research facilities, and follow-up work is now exploring opportunities for collaborations and joint projects.

Chalmers University of Technology has been accepted as a cooperative entity in the international SKA Observatory (SKAO), offering a great opportunity for Sweden's high-tech companies to get involved in challenging and extremely exciting projects.

Remember you are always welcome to join our Business Corner, every Wednesday! And please feel free to contact us at any time if you have any questions.



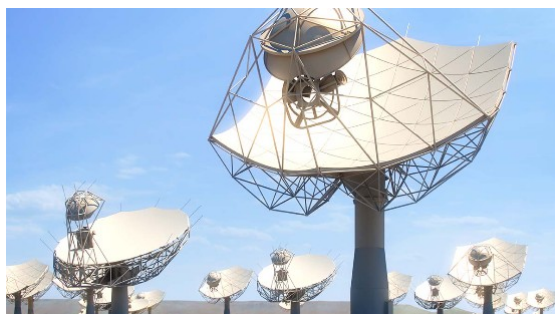


Key role for Chalmers in telescope project

Chalmers will be leading Sweden's participation in the project to build the world's largest radio telescopes. This arrangement will apply for the next two years, giving time for Sweden to establish its formal membership in the international organisation. [Read more](#)

Openings for Swedish high-tech industry

With Chalmers' new role as a cooperative entity to the intergovernmental organisation SKA Observatory, Swedish high-tech companies will be able to tender for contracts allocated to Sweden. [Read more](#)



IVA Gold Medal for Lars Börjesson

Lars Börjesson, professor in materials physics at Chalmers University of Technology, has been awarded the Gold Medal by IVA, the Royal Swedish Academy of Engineering Sciences, for his extensive work that has helped to create a better society. [Read more](#)



Tomorrow's astronomy research infrastructures

At the BSBF Astronomy Webinar on 6 October, speakers from the astronomy research infrastructures, ESA, ESO, SKA, EST, and CTAO, talked about the technologies that will drive future projects in their organisations. [Read more](#)

Question 4344 Facilitator: Anna Hall (Patrik Carlsson) • How can we enhance the quality of control system data for machine learning purposes in order to lower costs for both data handling and computing?	Question 4407 Facilitator: Ernesto Gutiérrez (Håkan Nilsson) • 4357: How can we adopt industrial robots (Off the shelf) that can be used in an activated environment? 4360: How can we adopt industrial mobile platforms (Off the shelf) that can be used in an activated environment? Q ESS: How can we make use of autonomous vehicles, robots and devices to enable inspection of areas that	Question 4355 Facilitator: Adam Wikström (Mike Olsson) • How to optimize an assembly for Hipping and to choose adequate parameters?
Question 4341 Facilitator: Anna Hall (Sven-Christian Ebenha) • What infrastructure, software and supporting functions are required to maximize the outcome of a collaborations ecosystem for intelligent process control?	Question 4332 Facilitator: Fredrik Engelmark (Mike Olsson) • Is it possible to produce copper-based and Inconel-based beam intercepting parts via AM, whose porosity, thermal and mechanical properties fulfil the application	Question 4333 Facilitator: Adam Wikström (Mike Olsson) • How to optimize an assembly for Hipping and to choose adequate parameters?
Question 4353 Facilitator: Fredrik Engelmark (Sven-Christian Ebenha) • How can we use the perovskite crystal structure for the development of fast particle (high-energy) c	Question 4329 Facilitator: Ernesto Gutiérrez (Fredrik engelmark) • How to efficiently machine pure Tungsten by turning?	Question 4347 Facilitator: Anna Hall (Sven-Christian Ebenha) • How can we enhance under

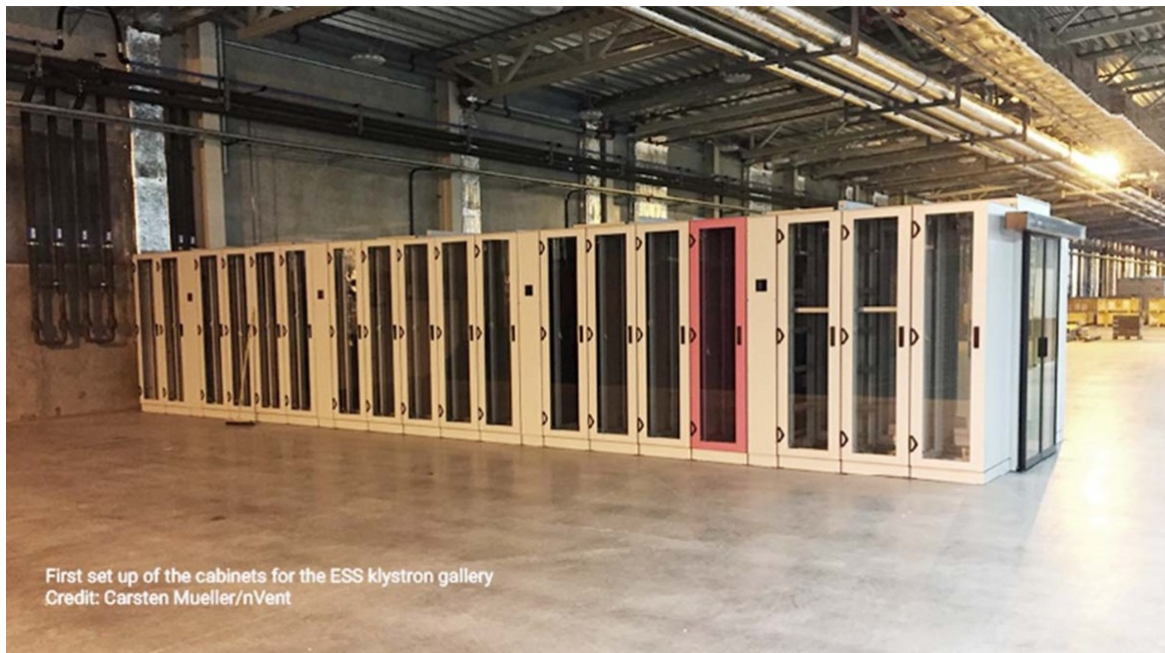
Bild från 2019

AIMday Big Science Technology 2021 proves popular

The annual meeting between research facilities, industry, and academia opens the door to collaborations on new development projects. The popular event attracted around 60 participants this year. [Read more](#)

Interesting discussions at AIMday Materials 2021

At AIMday Materials 2021, arranged by Uppsala University, industry and the research community discussed issues that can be addressed in future joint development projects. [Read more](#)



nVent delivers cabinet solutions to ESS

Our member company nVent has completed an extensive order to ESS, thereby fulfilling a contract awarded after a call for tenders in 2017. The delivery concerns comprehensive cabinet solutions for the electrical/electronic equipment that controls the accelerator. [Read more](#)

Funding for projects to develop research infrastructure

The Swedish Foundation for Strategic Research has announced a call for proposals, aimed at people who have chosen a career path other than a traditional academic route and who are of crucial importance to the research community.

[Read more](#)





Enjoy a coffee break with your Big Science Sweden friends at Elmia Subcontractor

When you are visiting Elmia Subcontractor, come and join Big Science Sweden friends for an informal coffee break at 15.00 on 9 November at the Bageriet café, just inside the North Entrance (Entré Nord). [Read more](#)



**BIG SCIENCE
BUSINESS FORUM**

Webinars autumn 2021

ASTRONOMY FUSION HIGH-ENERGY
ACCELERATORS
AND
SYNCHROTRONS

Next BSBF webinar: Fusion • Thursday, 11 Nov 2021

Our member company Air Liquide has been awarded a three-year contract with the research facility ESS to supply liquid nitrogen. [Read more](#)

Introducing high-energy X-rays for fundamental and applied materials science



11 November 2021 • By providing a range of examples from ongoing research, the seminar aims to give researchers who are unfamiliar with using synchrotrons an insight into research possibilities – especially when using the PETRA III Swedish materials science beamline. [Register](#)



Big Science@workshops at universities

We are arranging Big Science@ workshops together with some of the leading universities and research institutes in Sweden.

BigScience@Luleå University of Technology

NB. New date! 28 January 2021 • [Register](#)

BigScience@Chalmers University of Technology

NB. New date! 10 March 2022 • [Register](#)



As Sweden's Big Science ILO we play a key role in the transfer of knowledge and technology between research facilities, industry, and academia.

Learn more about knowledge/technology transfer • Innovate with Big Science

2 December 2021 • The focus will be on how FAIR, CERN, ESO, ESS and F4E are working with knowledge/tech transfer. Learn more about the skills, expertise, knowledge, and technology the facilities can share.

[Read more](#)

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