



BigScience.NL

Cryogenic Conference

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BigScience.NL (ILO-net)

Vision

Performing Big Science is only possible through international collaborations of long duration. The Netherlands spends >100M€ /year on memberships. On top of the revenues for science, high tech companies profit from the national investments.

Big Science is considered as a crucial activity in this respect. High tech companies are challenged to innovate and perform at the highest technical levels. Moreover, knowledge and expertise are exchanged in the intensive collaboration between science and industry.

Ambition

BigScience.NL is the national counterpart and centre of expertise for the support of high tech companies who want to be involved in Big Science activities. BigScience.NL is part of the joint European efforts to connect science with industry. The geographical return of Dutch investments in Big Science facilities should be significantly improved.



BigScience.NL (ILO-net)

Main tasks

- Focused on Calls for Tender to high tech companies, and support the tender process
- Promotion of cooperation between companies, both national and international
- Participation in Industrial Fairs and exhibitions at the occasion of scientific assemblies, by organizing a joint company booth
- Holland Branding; promotion of High Tech Dutch companies involved in Big Science
- Maintaining a website, issue a regular newsletter and organize meetings





CERN
The European Organization for Nuclear Research



ESRF
European Synchrotron Radiation Facility



ITER
ITER ("The Way" in Latin)



F4E
Fusion for Energy



ESA
The European Space Agency



ESO
European Organisation for Astronomical Research



SKA
We provide information



AMICI
Accelerator and Magnet Infrastructure for Cooperation and Innovation



XFEL
X-ray Free-Electron Laser



DESY
Deutsches Elektronen-SYNchrotron



PPPL
Princeton Plasma Physics Laboratory



Diamond
UK's national synchrotron science facility



ECMWF
The European Centre for Medium-Range Weather Forecasts



ESS
European Spallation Source



KM3NET
(gen tender website / no tender website available)



LOFAR
(gen tender website / no tender website available)

NL Industry Liaison Officers

International Organization	Name Role	Institute
CERN, ET	Jan Visser BigScience.NL coördinator / Accelerator and gravitational wave facilities	Nikhef
ET, ETpathfinder	Rob van der Meer Gravitational wave facilities	Nikhef
LOFAR, SKA	Ronald Halfwerk Radio telescopes	ASTRON
SKA	Michiel van Haarlem Radio telescopes	ASTRON
Differ	Paul Hieltjes ITER Fusion science	ITER
ESO	Ramon Navarro Optical telescopes	NOVA
ESA	Jan Geralt bij de Vaate Space	SRON
HFML /FELIX	Martine Heiligers Magnets with ultra high fields Free electron lasers	RU Nijmegen/HFML/FELIX
NIOZ	Marck Smit Sea and ocean research (including deep sea research and technology)	NIOZ

Additional experience

Gerard Cornet

Infrastructures & Industry for
Collaboration (ENRIITC) Horizon 2020

Toon Verhoeven

Pan-European Research Infrastructures
ILO organisation (PERIIA)

Eric W. Boom

Dutch Industry Representative /
Fusion Industry Innovation Forum

- Close links to
 - Ministry of Economic Affairs & RVO & NSO
 - Ministry of Science & Education & NWO
 - International Science Treaty Organizations
 - European Networks
 - Innovation at companies, TNO & Universities
 - Holland High Tech, Mikrocentrum

Events



Calendar / Upcoming Events

07 May 2023 -> 12 May 2023;

IPAC'23 - booth ILO-net

Venice Convention

Centre, Venice (IT)



Past Events

Past Events

06 Apr 2023;
ESA-regelingen waarvoor NSO-steun nodig is

29 Mar 2023 -> 30 Mar 2023;
AM for Production



28 Mar 2023 -> 29 Mar 2023;
European Cryogenics Days



21 Mar 2023;
ZIE: de technologische industrie



24 Jan 2023 -> 25 Jan 2023;
15th European Space Conference

16 Nov 2022 -> 17 Nov 2022;
Precisiebeurs 2022

12 Nov 2022 -> 17 Nov 2022;
Space Tech Expo 2022 Bremen

10 Nov 2022;
Einstein Telescope & Industry day

04 Oct 2022 -> 07 Oct 2022;
BSBF 2022



28 Sep 2022 -> 29 Sep 2022;
ESA's Industry Space Days (ISD)

18 Sep 2022 -> 22 Sep 2022;
IAC 2022 Paris

18 Sep 2022 -> 23 Sep 2022;
32nd Symposium on Fusion Technology (SOFT 2022)

28 Aug 2022 -> 02 Sep 2022;
The International Society of Infrared, Millimeter, and Terahertz Waves

17 Jul 2022 -> 22 Jul 2022;
SPIE Astronomical Telescopes + Instrumentation

21 Jun 2022;
ET2SMES General workshop: other technologies

20 Jun 2022 -> 24 Jun 2022;
Wire Trade Fair

17 Jun 2022;
Big Science & Knowledge Transfer

12 Jun 2022 -> 17 Jun 2022;
IPAC, Bangkok

01 Jun 2022;
ET2SMES Technology Workshop: Tunneling Water technology

31 May 2022;
ET2SMES Technology Workshop: Optics Mirror coatings Lasers

30 May 2022 -> 02 Jun 2022;
Hannover Messe

19 May 2022;
ET2SMES Technology Workshop: Geophysical Imaging Simulation & Modelling

12 May 2022;
ET2SMES Technology Workshop: Vacuum & Cryogenics

21 Apr 2022;
ILO-net Industrie middag



07 Apr 2022;
ELT Instruments Day 2022



Past Events

16 Feb 2022;
Technology Infrastructures in European Innovation Ecosystems

08 Feb 2022;
Pan-European Partnering in Big Science

02 Dec 2021;
Annual Symposium on Superconductivity & Cryogenics



16 Nov 2021 -> 18 Nov 2021;
Space Tech Expo



15 Nov 2021 -> 17 Nov 2021;
Techconnect Conferentie in Malmö

11 Nov 2021;
BSBF webinar: A look into the future of Big Science infrastructures. Episode 2: Fusion: Strategies, roadmaps and development programmes



10 Nov 2021 -> 11 Nov 2021;
Precisiebeurs 2021

08 Oct 2021;
ET Industrial Advisory Board face-to-face Meeting

07 Oct 2021;
ILO-net symposium Challenges in design, modelling and control of thermal systems

06 Oct 2021;
BSBF webinar miniseries: a look into the future of Big Science infrastructures



08 Sep 2021 -> 09 Sep 2021;
Industry Space Days



25 Jun 2021;
ILO-net industrieochtend en Holland@CERN

16 Jun 2021 -> 17 Jun 2021;
Vakbeurs Vision, Robotics & Motion Netwerkevent



19 May 2021 -> 20 May 2021;
RI.Logistica



18 May 2021;
ILO-net webinar



16 Apr 2021;
NXTGEN HIGHTECH | Live uitzending



07 Apr 2021 -> 08 Apr 2021;
Remote ITER Business Meeting



23 Feb 2021 -> 25 Feb 2021;
AERONAUTICS & SPACE INNOVATIVE TECHNOLOGY SUMMIT



18 Feb 2021;
Third Big Science Business Forum Webinar on Technology Transfer



04 Feb 2021;
#ENRIITCyourCoffee Season 2 Episode 2: "E-Platforms for technology/knowledge transfer between industries and RIS"



28 Jan 2021 -> 04 Feb 2021;
43rd COSPAR Scientific Assembly



13 Dec 2020 -> 18 Dec 2020;
SPIE Astronomical Telescopes + Instrumentation | Call for Papers





SPIE Astronomical Telescopes & Instrumentation, Montréal Canada

Big Science Business Forum, Granada, Spain



Cryo Conference Program

- 12:00 - *Inloop & lunch* -
- 13.00 Welkom door Michael Wise, Directeur SRON
- 13.10 Introductie BigScience.NL, Ramon Navarro, NOVA
- 13.20 Cryogene start-ups en cryogeen onderzoek op de Universtiteit Leiden, Tjerk Oosterkamp, Universtiteit Leiden
- 13.45 Sorpton Cooling, Marcel ter Brake, Universiteit Twente
- 14:10 De ontwikkeling van een trillingsreducerende doorvoer voor de Einstein Telescope, Tom Meerman, Cryoworld
- 14:30 - *Pauze* -
- 14:50 Ontwikkeling les module MBO cryogene techniek, Gunter Helms, LIS, Jeroen Oostinga, Haagse Hogeschool
- 15:15 De ontwikkeling van actieve trillingsisolatie voor een cold finger voor de Einstein telescope, Huub Janssen, JPE
- 15:40 - *Pauze* -
- 16:10 TIFUUN and DESHIMA: Superconducting On-chip Instruments for Mapping the Submillimeter-wave Universe in 3D, Akira Endo, Delft University
- 16:35 De ontwikkeling van een modulair, shielded, thermisch geïsoleerd, platform voor cryogene detectoren in space, Henk van Weers, SRON
- 17:00 - *Borrel* -

8th European Space Cryogenics Workshop

5 - 7 June 2023 | ESA-ESTEC | The Netherlands



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8th EUROPEAN SPACE CRYOGENICS WORKSHOP

5 - 7 JUNE 2023 AT ESA/ESTEC



Ariel Spacecraft (left – court. ADS) and MTG Cryocooler Unit (right – court. ALAT)

Organised by the European Space Agency (ESA) in association with Industries, Institutes and Agencies.