



Steering Committee | 14 December 2023

Antoine Le Gall (CERN) & Yiota Foka (GSI/CERN)

Exhibition and conferences

I.FAST was presented at:

- Greece - several exhibitions.
- July: GSI Open Day (Germany).
- September: Medicon (Bosnia & Herzegovina).

Banners EN & GE are available for [download](#) and for rent (@ Valérie).



Articles



Particle accelerators to accelerate circular fashion

For the second time, the I.FAST yearly student challenge explored environmental and societal applications of accelerator technology.

Opportunities | 10 August, 2023



- Published on CERN, Accelerating News, partners, specialised press, etc.
- Impactful comms since two leads are being explored at CERN.



New industry-academia exchange programme “broadens the view of accelerator researchers”

After two months at Cosylab, Luca Garolfi, from CERN, tells us about the I.FAST industry-academia exchange programme.

Opportunities | 23 October, 2023



How can particle accelerators help to improve human health? A 10-day challenge for multidisciplinary teams of young people!

Come to take part in an EU-funded challenge to imagine new multidisciplinary solutions to address health issues by using particle accelerators.

Opportunities | 05 December, 2023



CERN
385,234 followers
STUDENTS

Here's your chance to have a positive impact on #healthcare. ...see more

Accelerators for healthcare?

10-day innovation challenge open to all students

From 23 July to 1 August, near Geneva

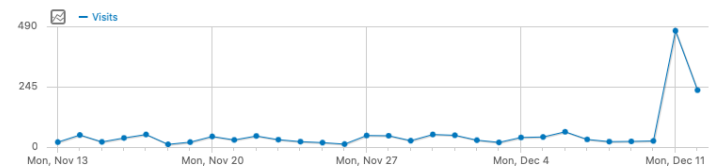
ACCELERATOR PHYSICS ENGINEERING CHEMISTRY LIFE SCIENCE MEDICINE

212 2 comments · 26 reposts

Like Comment Repost

Organic impressions: 16,484 Impressions Preview results

Visits Over Time



Challenge-based innovation 2024

- Launched 5 December.
- Deadline: 26 February.
- News on:
 - I.FAST, CERN, Accelerating News (special issue), partners.
- In the future:
 - Video w/ former students, media push.



Accelerating News

- October:
 - Last issue of Accelerating News (#45).
 - Included the articles mentioned previously.
- December:
 - Special issue to announce the CBI.
- January:
 - Next issue of Accelerating News (#46).
 - Will include an article about environmental applications and another topic (TBD).

Website

- Updated to the latest version of **Drupal** (#10).
- CERN is slowly moving away from this infrastructure and might recommend to use **WordPress** from the end of 2024.
- More info to come next year!

Posters / Leaflets

Posters for events



IFAST
LOW EMITTANCE RINGS WORKSHOP
13-16 February 2024
CERN
Geneva, Switzerland

The 9th Low Emittance Rings Workshop brings together experts working on low emittance positron rings, including high source storage rings, damping rings and e+e- circular colliders.

Sessions

- Low emittance ring commissioning and operation
- Collective effects and beam stability systems
- Accelerated technologies for low emittance rings
- Machine learning tools for design and operation

A full day will be dedicated to **Power consumption, efficiency and sustainability**.

Proposals for contributions to the workshop can be addressed directly to:
 • **Alain Brette** (CEP) alain.brette@cern.ch
 • **Alan Woodhead** (EP) alan.woodhead@cern.ch
 • **Yannik Pappe** (EP) yannik.pappe@cern.ch

Organising Committee

- **Sven Richter** (CEP)
- **Isabelle Hubert** (CEP)
- **Yannik Pappe** (EP)

**FOR PHYSICS ENGINEERING
AND LIFE SCIENCE MEDICINE**

From 23 July to 1 August near Geneva
Apply now at: ifast-project.eu

IFAST has received funding from the European Union's Horizon 2020 Research and Innovation programme (GA No. 101019703).

Leaflets for programmes



Accelerators for society
Challenge-based innovation

A multidisciplinary student programme centred around accelerator applications

How can particle accelerators help society?

Each year since 2022, the IFAST Challenge-Based Innovation (CBI) programme invites, in the Geneva area, over 20 students from different academic fields and universities all around Europe to think about this question.

In 2024, the topic will be **Accelerators for health**.

Divided in four teams, the students have 10 days to propose a solution using particle accelerators, all while attending high-level seminars and visiting CERN.

Challenge Based Innovation 2023
Accelerators for the environment

Textile fibre sorting to help recycling | Pollen sterilisation to fight invasive plants

Challenge Based Innovation 2022
Accelerators for the environment

Vessel-mounted accelerator to fight algal bloom | Truck-mounted accelerator to clean polluted soils

Become a sponsor now

The IFAST project has received a grant from the European Commission to finance the CBI, part of which was used to support its first two editions. However, the remaining fraction of this grant is not adequate to fully finance the 2024 edition.

IFAST is seeking contributions from scientific institutions, companies and donors.

Option 1: Direct contribution to the programme: €5000-10.000 EUR
Option 2: Direct sponsorship of one or more students: 2.500 EUR/student

Students with a direct contribution will have their logo placed on the material and will be able to provide comments and advice on the programme. Sponsors contributing students may also have their contribution to students from a specific degree or country, within limits defined by the programme.

[Click here for more information!](#)

IFAST has received funding from the European Union's Horizon 2020 Research and Innovation programme (GA No. 101019703).

Roll-up banners for conferences



IFAST
INNOVATION FOSTERING IN ACCELERATOR SCIENCE AND TECHNOLOGY

IFAST aims to enable Europe to develop and enhance leadership in particle accelerators technologies for science and society.

48 BENEFICIARIES FROM 15 COUNTRIES
16 INDUSTRIAL PARTNERS

R&D AREAS

- Novel accelerator concepts
- Superconducting magnets & thin film-coated cavities
- Advanced materials
- Sustainable technologies
- Societal applications
- Technology infrastructure
- and much more!

IFAST-PROJECT.EU

INNOVATION FOSTERING IN ACCELERATOR SCIENCE AND TECHNOLOGY

IFAST baut die europäische Spitzenposition in der Beschleunigertechnologie aus, für die Wissenschaft und ihren gesellschaftlichen Nutzen.

48 GEFÖRDERTE TEILNEHMER IN 15 LÄNDERN
16 INDUSTRIELLE PARTNER

F&E FOKUS

- Neuartige Beschleunigerkonzepte
- Supraleitende Magnete und dünne beschichtete Hohlräume
- Fortschrittliche Materialien
- Gesellschaftlicher Nutzen
- Infrastruktur
- und vieles mehr!


IFAST-PROJECT.EU

This project has received funding from the European Union's Horizon 2020 Research and Innovation programme under Grant Agreement No. 101019703.

Dieses Projekt wurde von der Europäischen Union im Rahmen des Programmierzeitraums 2020 für Forschung und Innovation unter der Programmvereinbarung Nr. 101019703.

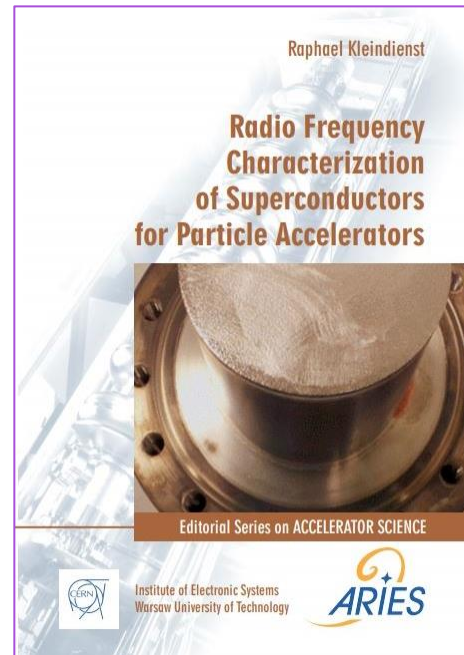
Monographs

- Zenodo, under "Reports".
- Physical format similar to ARIES'.



Resource types Clear

<input checked="" type="checkbox"/> Publication	93
<input type="checkbox"/> Project milestone	37
<input type="checkbox"/> Project deliverable	18
<input type="checkbox"/> Conference paper	17
<input type="checkbox"/> Journal article	16
<input checked="" type="checkbox"/> Report	4
<input type="checkbox"/> Thesis	1
<input type="checkbox"/> Poster	1



Some announcements

- Communication Workshop:
 - Topic: Communication on accelerator upgrades, and impact of accelerators (economic, societal and SDGs).
 - Date: February 2024.
 - Indico: To be added.
- Particle Therapy Masterclass:
 - Topic: Use of accelerator technology for cancer tumour therapy
 - Date: 12 February – 30 March 2024
 - Indico: <https://indico.cern.ch/e/PTMC>

Particle Therapy Masterclass

- **46 institutes registered** so far:
 - Interested institutes may register via the following [LINK](#) or the following [FORM](#)
- **PTMC 2024 Schedule** and Video Conference [indico](#) pages:
 - 12 February: <https://indico.cern.ch/event/1246300/>
 - 24 February: <https://indico.cern.ch/event/1246302/>
 - 27 February: <https://indico.cern.ch/event/1246303/>
 - 28 February: <https://indico.cern.ch/event/1246649/>
 - 4 March: <https://indico.cern.ch/event/1246638/>
 - 8 March: <https://indico.cern.ch/event/1345194/>
 - 15 March: <https://indico.cern.ch/event/1355597/>
 - 23 March: <https://indico.cern.ch/event/1246651/>

Upon request **additional dates** may be offered, please send an email to: yiota.foka@cern.ch



I.FAST @ Medicon Sarajevo, 12 September 2023

Main message:

Innovation in accelerator technologies
and capacity building projects
support societal applications
such as future cancer therapy facilities
with ion beams.

Synergies: I.FAST, HITRIplus (magnets)

Format

Exhibition corner next to the main
entrance to the plenary hall.
Banners, leaflets, TV screen



I.FAST @ Medicon Sarajevo, 12 September 2023

Main message:

Innovation in accelerator technologies
and capacity building projects
support societal applications
such as future cancer therapy facilities
with ion beams.

Synergies: I.FAST, HITRIplus (magnets)

Format

Exhibition corner next to the main
entrance to the plenary hall.
Banners, leaflets, TV screen



MEDICON, Sarajevo 12 sep 2023

I.FAST @ Beyond & Forward Green Thessaloniki, 2023

Main message:

Innovation and technical developments pushed by requirements of fundamental research find applications with direct benefit to society.



Highlight RFQ as example.
Leaflets, 3D printed RFQ samples



I.FAST @ TIF expos, Thessaloniki

TIF, Thessaloniki, sep 2023

Outcome:

Participation to 5 exhibitions in Thessaloniki motivated a large number of students

TIF, Thessaloniki, sep 2022



I.FAST @ TIF expos, Thessaloniki

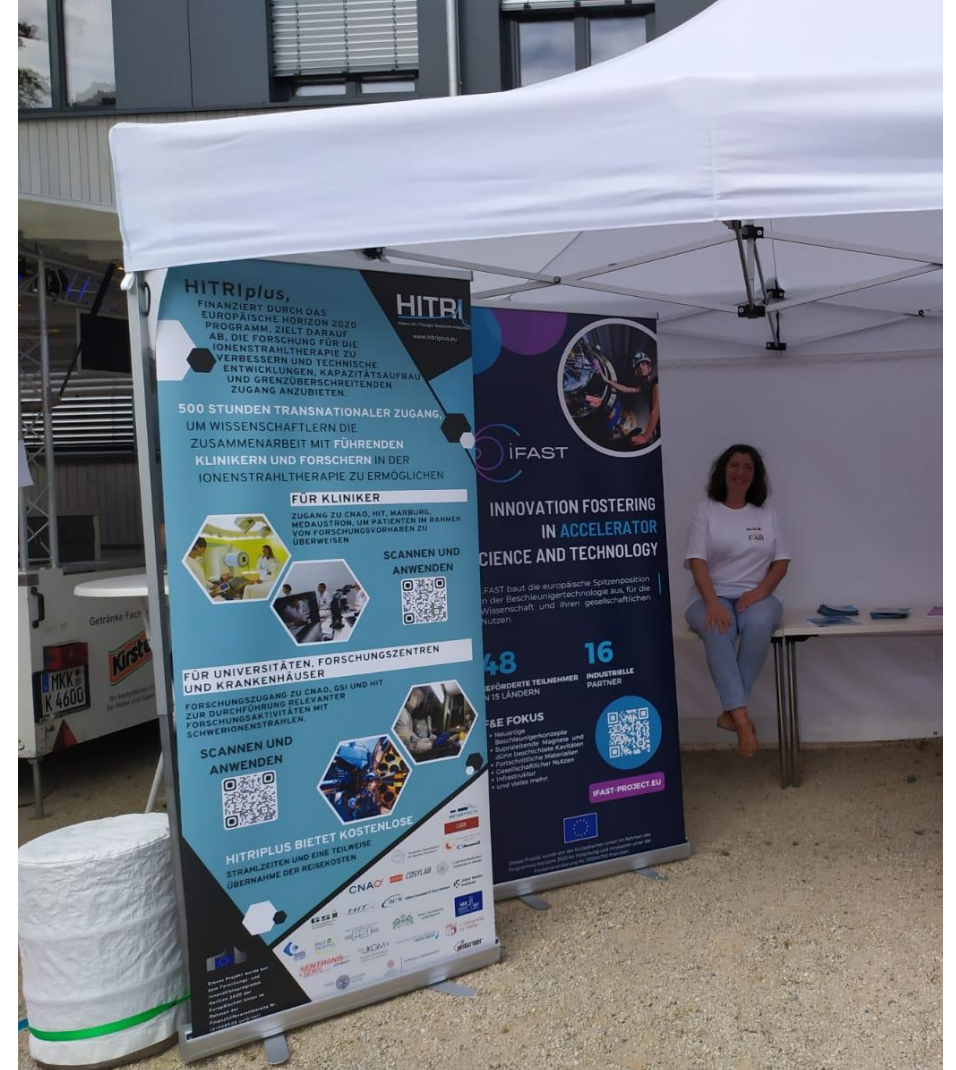
Outcome:

Participation to 5 exhibitions in Thessaloniki motivated a large number of students



TIF, Thessaloniki, sep 2023

I.FAST @ GSI Open Days GSI, July 2023



iFAST



This project has received funding from the European Union's Horizon 2020 Research and Innovation programme under GA No 101004730.