

ECFA Training Panel

Membership	
Johann Collot	Co-chair, ECFA Detector Panel
Erika Garutti	Co-chair, ECFA Detector Panel
Robert Appleby	ECFA accelerators
Richard Brenner	ECFA particle physics
Paola Gianotti	NuPECC
Claire Gwenlan	ECFA particle physics
Armin Ilg	ECFA ECR panel
Paolo Martinengo	ECFA particle physics
Elias Metral	ECFA accelerators
Ian Shipsey	ICFA
Niels van Bakel	ECFA particle physics APPEC
Ex-officio	
Karl Jakobs	ECFA Chair
Patricia Conde Muíño	ECFA Scientific Secretary



Roadmap implementation

List of tasks:

- 1) Attract, nurture, recognize and sustain the careers of R&D experts
- 2) Redesign the ECFA web page including a prominent page on training
- 3) Collect and coordinate schools in instrumentation
- 4) Organize an EU master in instrumentation



Task 1) Careers Paths

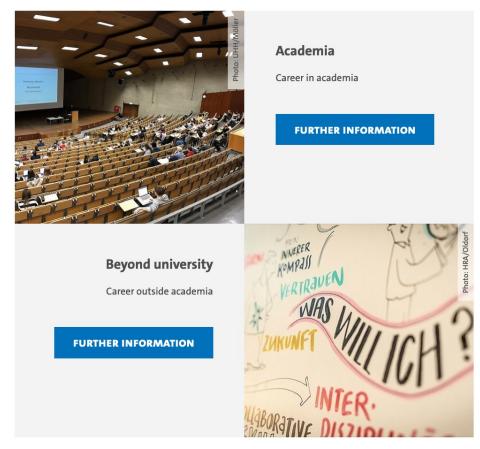
- Attract, nurture, recognize and sustain the careers of R&D experts
- Collect Career path options & Testimonial examples in the various countries
- Develop and promote new alternatives

The "postdoc pathways" to professorship

→ is this all?

Can we propose alternative career paths for instrumentation experts in academia?

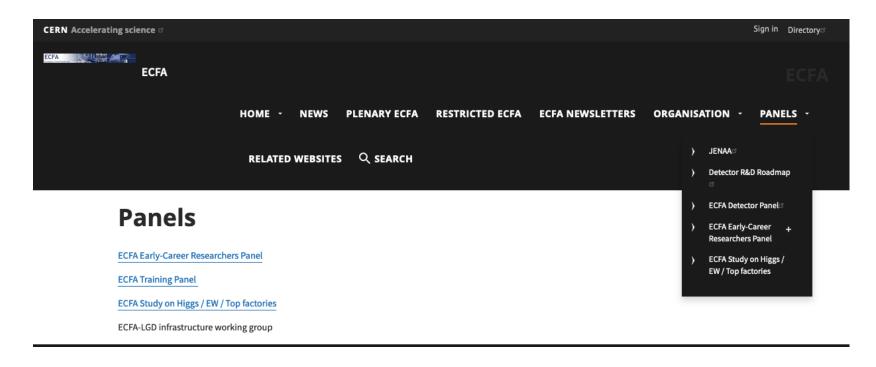
Work in cooperation with young ECFA





Task 2) Web page

Define the content of the ECFA Training web page





Task 2) Web page

- Define the content of the ECFA Training web page Proposal:
 - List of regular schools / hands-on events in the field of detector & accelerator
 - List of institutes offering a Master in instrumentation or similar
 - Suggested curriculum for a Career in Instrumentation Physics
 - Career path options & Testimonial examples (see task 1)
 - Networking (create a Linked-in group, link to DRD ECR panel activities, ...)
- Define a structure to display the information
 - Split the page for Undergraduate students / PhD / Postdocs / Researchers / Institutes
 - As example: https://ideasquare.cern/
- Implement
 Patricia Conde Muino (LIP Lisbon) will help with the technical aspects

 BUT we need professional support for the implementation











Task 3) collect and coordinate schools



WHAT: Aim of ECFA organization

- coordinate the aims, time, offers of the schools proposed on a regular base
- discuss missing activities and needs to develop further hands-on offers
- coordinate access to training: geographical distribution / stipends / diversity
- advertise the schools on the ECFA training web page



Stipends for disadvantaged students?

Masters or Postdocs?

Hands-on or theoretical?

Specialized or basic?

Particle physics vs societal applications?



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WHY: Added value for school organizers

- network of trainers & list of portable hands-on experiments to be invited at schools
- visibility & recognition at EU level
- broad advertisement on the ECFA web page



Who is teaching what in one glance







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HOW: Instrumentation schools orga meeting

- invite all school organizers for a 2 h meeting (8. April 2024, 15:00-17:00, via zoom)
- collect info from each regular school according to template (see next page)
- action item for needed coordination topics
- prepare overview page: geographical distribution & number of attendees / hands on vs basics / ...



Template for contribution of the Instrumentation schools orga meeting

- Name of the school / organizers
- Main focus (100 words)
- Target group: master students / PhDs / postdocs / researchers
- Frequency / started in ...: yearly since ... / every second year since ... / only in 202X
- Number of participants (average) / geographical distribution in EU [East, Centre, West, non-EU]
- Possibility of stipends (if so, how many and for which target)
- Financing source



List of ashable known to us

Contact person WANTED

• We are collecting a list of contact people to invite to the Instrumentation schools orga meeting

List of schools known to us
School name
ISOTDAQ
EURIZON detector school
ICFA School on Instrumentation in Elementary Particle Physics
ESIPAP
INFIERI
EDIT-Excellence in Detector and Instrumentation Technologies
SiRAD
RD51 MPGD School
ISAPP
CRYOCOURSE
EIRO Forum
International SoP "Enrico Fermi"
SENSE Detector School
International School of Nuclear Physics
PRISMA+ School
Seminario Nazionale Rivelatori Innovativi

Please signal more schools & the name of contact people to:

richard.brenner @ physics.uu.se



Task 4) EU master in instrumentation

Identify candidates to **coordinate** the EU master preparatory phase

 Prepare a document with a "possible" curriculum in instrumentation to discuss with stockholders who could be interested in contributing

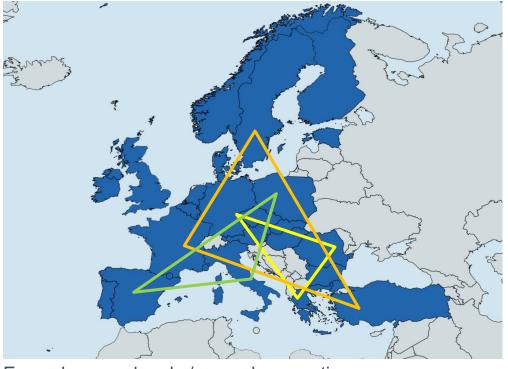
Idea:

- trilateral-master program (similar to Erasmus-mundi)
- Bring together institutes with large infrastructures & "less privileged" universities with strong experimental competences

Collect examples & experiences

- International Master Advanced Methods in Particle Physics, Universities of Dortmund, Bologna, University of Clermont Auvergne (Kevin Kroeninger), since 2021
- European Master in particle Physics and Accelerator Technologies for Research and Industry, Baltic states (Kārlis Dreimanis), in preparation

EU Master in Instrumentation



Exemplary graph only / no real connections



THANK YOU FOR YOUR ATTENTION

Please contact me for:

- Questions
- Suggestions
- Volunteering !!!!

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