## ECFA Training Panel

<table>
<thead>
<tr>
<th>Membership</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Johann Collot</td>
<td>Co-chair, ECFA Detector Panel</td>
</tr>
<tr>
<td>Erika Garutti</td>
<td>Co-chair, ECFA Detector Panel</td>
</tr>
<tr>
<td>Robert Appleby</td>
<td>ECFA accelerators</td>
</tr>
<tr>
<td>Richard Brenner</td>
<td>ECFA particle physics</td>
</tr>
<tr>
<td>Paola Gianotti</td>
<td>NuPECC</td>
</tr>
<tr>
<td>Claire Gwenlan</td>
<td>ECFA particle physics</td>
</tr>
<tr>
<td>Armin Ilg</td>
<td>ECFA ECR panel</td>
</tr>
<tr>
<td>Paolo Martinengo</td>
<td>ECFA particle physics</td>
</tr>
<tr>
<td>Elias Metral</td>
<td>ECFA accelerators</td>
</tr>
<tr>
<td>Ian Shipsey</td>
<td>ICFA</td>
</tr>
<tr>
<td>Niels van Bakel</td>
<td>ECFA particle physics APPEC</td>
</tr>
</tbody>
</table>

**Ex-officio**

<table>
<thead>
<tr>
<th>Membership</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Karl Jakobs</td>
<td>ECFA Chair</td>
</tr>
<tr>
<td>Patricia Conde Muñó</td>
<td>ECFA Scientific Secretary</td>
</tr>
</tbody>
</table>
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

We need candidates to support this activity
Task 2) Web page

- Define the content of the ECFA Training web page

We need candidates to support this activity
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
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
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

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
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

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

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
We are collecting a list of contact people to invite to the Instrumentation schools organiser meeting.

List of schools known to us

<table>
<thead>
<tr>
<th>School name</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISOTDAQ</td>
</tr>
<tr>
<td>EURIZON detector school</td>
</tr>
<tr>
<td>ICFA School on Instrumentation in Elementary Particle Physics</td>
</tr>
<tr>
<td>ESIPAP</td>
</tr>
<tr>
<td>INFIERI</td>
</tr>
<tr>
<td>EDIT-Excellence in Detector and Instrumentation Technologies</td>
</tr>
<tr>
<td>SiRAD</td>
</tr>
<tr>
<td>RD51 MPGD School</td>
</tr>
<tr>
<td>ISAPP</td>
</tr>
<tr>
<td>CRYOCOURSE</td>
</tr>
<tr>
<td>EIRO Forum</td>
</tr>
<tr>
<td>International SoP &quot;Enrico Fermi&quot;</td>
</tr>
<tr>
<td>SENSE Detector School</td>
</tr>
<tr>
<td>International School of Nuclear Physics</td>
</tr>
<tr>
<td>PRISMA+ School</td>
</tr>
<tr>
<td>Seminario Nazionale Rivelatori Innovativi</td>
</tr>
</tbody>
</table>

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

richard.brenner @ physics.uu.se
• 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
Please contact me for:

- Questions
- Suggestions
- Volunteering !!!!

erika.garutti@uni-hamburg.de