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MILESTONE REPORT

Selection of the Training Scientific Board

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Abstract:

The EURO-LABS Training Scientific Board (TSB) has been established. This required defining the procedures as well as defining the composition. The corresponding procedures for a few key types of EURO-LABS documents were technically implemented in the project repository. Mailing lists for communication among its nine participants (members) were put in place. Task 5.4 leader (chair) and WP5 Coordinator (co-chair) were selected to lead the board.

EURO-LABS Consortium, 2023

For more information on EURO-LABS, its partners and contributors please see <https://web.infn.it/EURO-LABS/>

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1. INTRODUCTION

EURO-LABS is a network of 33 research and academic institutions from 18 countries (25 beneficiaries and 8 associated partners) from European and non-EU countries, involving 47 Research Infrastructures in the Nuclear physics, Accelerators and Detectors pillars. Within this large network, EURO-LABS will ensure diversity and actively support researchers from different nationalities, gender, age, grade, and variety of professional expertise.

The project brings together, for the first time, the three research communities of nuclear physics, accelerator and detector technologies for high energy physics, in a pioneering super-community of sub-atomic scientists.

It provides effective access to a network of 47 Research Infrastructures (including 3 RIs with Virtual Access) to conduct curiosity-based research, addressing fundamental questions and technological challenges and advancing projects with broad societal impact, fostering knowledge sharing between scientific fields and enhancing Europe's potential for successfully facing future challenges.

EURO-LABS project is structured in six work packages (WP); of those one is dedicated to project management and another to ethical requirements. WP5 of EURO-LABS implements and coordinates the communication, dissemination, and outreach of EURO-LABS. It supports its relations with and among beneficiaries, and the knowledge transfer activities.

Among the main goals of EURO-LABS it is to organize the training of the new generation of researchers and young technical staff to best exploit the RIs, through workshops and hands-on experience at specifically chosen RIs.

Task 5.4 focuses on providing training for current and future potential users of the RIs aiming at an improvement, and increased efficiency of the use of the RIs, as well as of their results.

The present document reports on Milestone 5.4 (MS38), which concerns the Selection of the Training Scientific Board.

Here we describe the measures taken towards establishing the board, its role and responsibilities, as well as providing relevant structures and support documents for its continued operation.

2. THE TRAINING SCIENTIFIC BOARD

2.1. MOTIVATION

The EURO-LABS proposal aims to enhance the competitiveness of our research infrastructures and its technical capabilities. Therefore, as a subtask, it is to “plan a coherent, stable, and predictable

system of training schools and events. In order to coordinate this task a Training Scientific Board (TSB) should be selected in the first six months of the EURO-LABS project.”

To this aim, during EURO-LABS’ Kick-Off-Meeting, discussions were started with project’s leaders and with participants about the composition and responsibilities of this board. It was agreed that a nine members board can well and wide represent the beneficiaries. After the agreement about the chair, co-chair and WP representatives, the list was completed through direct or email consultations.

2.2. MEMBERS

List of TSB members:

1. *Livius Trache - IFIN-HH, Romania – Task 5.4 Leader (Chair)*
2. *Maria J.G. Borge – IEM-CSIC, Spain – WP5 Coordinator (Co-chair)*
3. *Rosanna Depalo - INFN and contact with ChETEC-INFRA, Italy*
4. *Ilias Efthymiopoulos - HEP Accelerators (CERN), Switzerland*
5. *Hanna Franberg-Delahayes – GANIL, France*
6. *Magdalena Kowalska - CERN/ISOLDE, Switzerland*
7. *Pawel Napiorkowski (Urszula Gryczka), Poland*
8. *Christoph Scheidenberger – GSI/FAIR, Germany*
9. *Marcel Stanitzki - HEP Detectors (DESY), Germany*

3. PROCEDURES, WORKFLOW

The TSB is meant to propose, select, and lead the activities that will take place under Task 5.4 dedicated to Training in accord with the spirit and letter of the EURO-LABS proposal.

In the EURO-LABS project it was proposed to have two categories of events: Basic training schools and Advanced training schools, including two events for technical and engineering staff.

A Zoom meeting of the TSB was called for in the period Jan 20 – Feb. 3, 2023. Further meetings will hold, as the need demands. They will be called by the chairs with a minimum notice of 2 weeks to the TSB members. The list of members with emails is available.

The first online meeting of the TSB took place on Jan. 30th. A description of this meeting, to serve as an illustration of the functioning of the TSB is given below. The meeting was online had the quorum and lasted ~ 2 hours.

The members present: Livius Trache (LT), Maria Jose Borge (MB), Piotr Napiorkowski (PN), Hanna Franberg-Delahayes (HFD), Ilias Efthymiopoulos (IE), Marcel Stanitzki (MS), Rosanna Depalo (RD), Magdalena Kowalska (MK), Timo Dickel (TD), Christina Hornung (CH), Maria Colonna (MC). TD and CH (both GSI) replaced Christoph Scheidenberger who could not attend. MC is one of the EURO-LABS Deputy Scientific Coordinators. The above shows that we had the quorum.

A proposed agenda, was sent by email by the chair to all TSB members:

“The agenda was to discuss/debate/decide the following points:

1. – Which are events to be organized in the two categories i.e. Basic training and Advanced training events? The precise schedule (year/month) for the events of the whole period, but as a minimum for the first two years to start with.
2. - Where and who will be responsible for each of the events?

3. - How will each event be supported. How will be the teachers and "trainees" be decided and their numbers be chosen. What would be the approximate cost for each event?
4. - What (other) traditional events of the three communities can be directly supported?
5. – Should other training events that are not fully of or directly organized by the TSB be supported? It was noted that there are many training events (traditional or new) being organized by member institutions or collaborations within our communities. Should/could these events be supported through a limited support for some of their "trainees"?
6. - How can the cross-fertilization of ideas between branches of our community be encouraged? “

At the start of the first TSB meeting, LT gave a short description of the TSB task, the purpose of the present meeting, and the expected results, as described in the EURO-LABS proposal, and also based on the discussions at the Kick-Off-Meeting in Bologna, Oct 3rd-5th, 2022. It was suggested that in the present meeting at least the skeleton of the basic principles and rules that will be used during the whole project should be established. Also, a decision about which events will be organized or supported in the first 2 years: 2023 and 2024 should be taken. It will be important to incorporate the lessons learned in the first half of the project to be applied to the second part of the project.

During discussions (MB, PN, RD, LT) it was agreed that it will be easier to organize the basic training schools as they should contain an important component of hands-on activities, in institutes with RI of medium complexity. LT proposed to organize the first such school in Sept. 2023 at IFIN-HH. The proposal was endorsed by the TSB members. Piotr Napiorkowski proposed that HIL and INCT Warsaw (facilities that will be used by WP2 and WP3) can organize the 2024 edition of the basic training school. These proposals were endorsed. It was decided that from the experience of the first schools we will learn how to better organize further events. One other point discussed was the length of the events. The participants leaned toward basic training schools with a duration up to 10-12 days, attended by 12-15, with a maximum 20 students. Part of the teachers would be local, and the others should be sought and invited from other institutions.

The Advanced training schools was another point of discussion. These will be more complex, and it was agreed that:

- the location and dates of these schools will be decided at a later stage.
- EURO-LABS' Advanced training school of 2023 could be organized at CERN.
- EURO-LABS will organize training for the technical and engineering staff. HFD announced that GANIL can organize one in 2026, however it is foreseen that it will last maximum one week, given the responsibilities of the staff for running the accelerator facility. IE said that it will be impossible to have hands-on at accelerator for more than 4 days, given the complexity and the cost of the instrumentation involved. But they can be coupled with other events. MS pointed out that the DESY schools EDIT (<https://indico.desy.de/event/22513/>) are attended by engineers, and the number of participants is large (~45 participants). This could be a possibility for EURO-LABS to send and support some participants.
- EURO-LABS will participate and support the organization of schools/meetings, either traditional (preferred) or new, that are planned or will be planned by groups of the EURO-LABS communities: schools/meetings for the design of complex instrumentation, for complex data analysis, for simulation frameworks, for emerging topics, etc.
- EURO-LABS can support 5-6 students to participate in events that are not organized by the TSB but are compatible with its goals.
- RD proposed two events that can be supported: the Nuclear Physics for Astrophysics school, Dresden, 2024 and the LNL school on detectors in Legnaro (if it is revived).

All decisions were taken by consensus, after discussions.

In the end it was decided to give some extra time so the participants could consult their colleagues and send proposals to the TSB chairs by Feb. 12th.

Based on the initial discussions on Jan. 30th and the proposals received by Feb. 12th, the following was decided:

- **the Basic training school of 2023** will be organized at IFIN-HH, in Sept. 2023. It will have majority of hands-on activities. The organizers have applied and obtained from the PAC of the tandem accelerator complex of IFIN-HH beamtime at the 3 MV and 9 MV tandems for use during the school. Up to 15-20 students will be selected for a period of 12 days. Organizer: Livius Trache and his team
- **the Basic training school of 2024** will be organized jointly in Warsaw by the Heavy Ion Laboratory, University of Warsaw and the Institute of Nuclear Chemistry and Technology. The working schedule is June 2024. About 20 participants for the 10 days school will be selected. The workshop will be intended for PhD students starting their thesis. Organizers: Piotr Napiorkowski (HIL) and Urszula Gryczka (INCT).
- **EURO-LABS' Advanced training school of 2023** will be organized at CERN. **Title:** "Advanced Training Sessions in the operation of High-Energy accelerators at CERN". Period: October – November 2023. Organizers: Ilias Efthymiopoulos and his team.
- **TSB notes the proposal that GANIL organizes an Advanced training school for the technical and engineering staff in 2026.**
- **EURO-LABS could support the participation of up to 6 students and 1 teacher** at the NPA XI school organized by ChETEC-INFRA at HZDR Dresden from 15th to 22nd of September 2024 if the conference were to fulfil the conditions requested by the TSB. This will be publicized in our next meeting.
- **TSB will analyse the proposals of CERN, DESY, LNL and GSI/FAIR to support students** to the training schools they plan for 2023 and 2024.
- **TSB will work with Project's Management to search and implement procedures** that simplify the organizational steps for these events, minimize the bureaucracy involved, and assist constructively the teams that will organize the events.
- **TSB members will meet primarily online** during their mandate. In-person meetings will happen whenever its members participate to EURO-LABS events or to the training events.