

# **PSRS Quality Assurance Board Meeting (11/3/2022)**

## **Participants of the meeting**

1. Fabrizio Giorgis (POLITO) (in presence @PoliTo)
2. Alain Tremeau (UJM) (in presence @PoliTo)
3. Pasi Vahimaa (University of Eastern Finland) (remote connection)
4. Régis Fournier (UPEC) (remote connection)
5. Marwan Abdou Ahmed (Université de Stuttgart) (remote connection)
6. Gustavo Insaurralde (UJM) (in presence @PoliTo)
7. Huynh Duc Le (2020-2022 students delegate) (remote connection)
8. Nathalia Della Giustina Ballmann (student representative) (in presence @PoliTo)
9. Francisco Gilberto Matos (student representative) (in presence @PoliTo)

The QAB meeting has been organized at Politecnico di Torino, but some QAB members attended in remote connection by Zoom platform.

## **Agenda of the meeting**

1. Presentation and discussion about student evaluation of the courses concerning semester 1 & 3  
by the M1/M2 students at UJM (semester 1 and 3, Alain Trémeau)  
by the M2 students at POLITO (semester 3, Fabrizio Giorgis)  
by the M2 students at UPEC (semester 3, Régis Fournier)
2. Presentation/discussion on the last industrial and research days (invited lectures scheduled in the last period, feedback by students and QAB members).
3. Presentation by PSRS student representative at the Erasmus Mundus Association (Huynh Duc Le).
4. Discussion about the improved website (feedback by students and QAB members).
5. Conclusive discussion on the Key Performance Indicators (reviewed in the last QAB meeting, Fabrizio Giorgis and Alain Trémeau, feedback by QAB members).

### **Presentation and discussion about student evaluation of the courses concerning semester 1 & 3**

Alain Tremeau, Fabrizio Giorgis and Regis Fournier presented the results concerning the questionnaires filled by the students (UJM [1<sup>st</sup> and 3<sup>rd</sup> semester], PoliTo [3<sup>rd</sup> semester] and UPEC [3<sup>rd</sup> semester] respectively). In particular A. Tremeau compared the results of the first semester of this year with the results of the last year.

For all the analysis the results are a bit different for each course. Some weaknesses have been observed due to redundancies and short time for the exams, and reported to the local coordinators and AMB.

### **Presentation/discussion on the last industrial and research days**

F. Giorgis summarizes the PSRS research and industrial days, scheduled at the end of 2021 in half-days.

In particular for the industrial day, the students enjoyed on variety of topics, considering the organization as two half days a good scheduling, representing a great opportunity to know about different fields of photonics and their application on industry.

Students suggested as future topics for future Industrial Days: Machine vision, more topics for the biometrics track, Photonics in astrophysics and satellites, Plasmonics, Photonics to help environments, security and defense, MEMS, Biomedical applications. Some suggests have been reported to the AMB.

### **Presentation by PSRS student representative at the Erasmus Mundus Association**

Huynh Duc Le presented his activity of the last semester.  
QAB thanked Huynh Duc Le for his commitment.

### **Discussion about the improved website**

F. Giorgis asserts that the website is greatly improved, but some documents which can help students are missed such as: i) form for internship assessments, ii) forms for student services quality assessment.

A. Tremeau suggested to add on the website a doc describing the rules of the QAB, in particular how the quality is managed in the project in order to give fruitful 'transparence' in the project.

### **Conclusive discussion on the Key Performance Indicators**

F. Giorgis presented the last version of the KPIs that QAB defined, pointing out that several parameters will need to be changed. In the following the first version of the KPIs

<b>KPI name</b>	<b>Target</b>	<b>Eval</b>
<i>Academic excellence (index values assessed on the last 5-years period)</i>		
<b>Average h5-index</b>	Publications productivity and impact	For each university, the average h5-index from the members of the main lab supporting the PSRS master.
<b>Delivered patents</b> (per permanent researcher)	Research impact in industry	For each university, the number of delivered patents per permanent researcher in the main lab supporting the PSRS master
<b>Relative rank of recruited applicants</b>	Level of recruitment of students	The average relative rank of recruited applicants in their respective previous academic institutions.
<i>Proximity to companies (index values assessed on the last 3 years)</i>		
<b>Relative R&amp;D panel</b>	Potential offering	The average number of R&D staff per student for companies attending the PSRS Industrial Day
<b>Representativeness of the entrepreneurship training</b>	Interest in potential industrial developments	The ratio of graduates having followed entrepreneurship courses
<b>Proportion of business owners</b>	Business developments	The ratio between the number of created businesses and graduates over 3 years
<b>Number of alumni on LinkedIn</b>	Networking	The number of alumni registered to the PRSRS's LinkedIn page

<b>KPI name</b>	<b>Target</b>	<b>Eval</b>
<i>Graduate satisfaction (a single index measured yearly)</i>		
<b>Satisfaction with the training</b>	Opinion about PSRS training	Average grade from the questionnaires of evaluation of teaching activities \ internships.
<b>Satisfaction with student services</b>	Opinion about PSRS management	Average grade from the questionnaires of evaluation of the administrative parts.
<i>Fate of graduates (index values assessed on the last 3 years)</i>		
<b>Employment in SRS Optics\Photonics</b>	Contribution to optics sector	The ratio of graduates working in the sector of optics and photonics for security, reliability and safety over 6 months/12 months
<b>Employability</b>	A professionalizing training	The ratio of graduates employed or in further education (PhD) over 6 (or 12) months
<b>Recruitment time</b>	Time to employment market	The average time before the recruitment of a PSRS master graduate in industry
<b>Continuation in PhD thesis</b>	Further education	The proportion of graduates pursuing in PhD

Alain Tremeau highlights that in particular the first KPIs are not adequate (h-index of the PSRS members, delivered patents for faculty people, etc). F. Giorgis and all the QAB agreed and decided to substitute some of the KIs with more representative ones within the next September 2022 (for the next QAB meeting).