IEEE Education Society Vicepresident of Educational Activities and Awards
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Report to the IEEE EdSoc BoG
Columbus, June 26th 2017

This report includes the description of my activities presented to the BoG since October, 2016:

1. **DLP plus other distinguished educational activities**
2. **Collaboration with MERLOT between EdSoc and MERLOT.**
3. **Interaction with EAB and IEEE Collabratec community in education.**

As reminder, and to understand better the actions included in this report, I summarize firstly the strategic implementations deploying our Objective 3 presented in my last report on October 2017 along with different operational actions:

Objective 3. To provide new professional development opportunities for members

- **The EdSoc shall have a global comprehension of its educational activities focused on the diversity of our chapters and different needs.**
    - *Analysis of educational activities reported by the chapters meetings from data provided by MGA.*
    - *Survey to chapters chairs/officers*
- **The EdSoc shall help to develop web-based educational resources meeting the needs of a membership that is geographically initially in English, but then expanding to other languages.**
    - *Promote the production and publication of resources in Merlot*
    - *Select and publish resources distinguished*
- **The EdSoc shall be a relevant source for information and resources for the engineering educator and support the educational needs of faculty members and academic departments.**
    - *To search and recommend OER in EdSoc FOI.*
    - *A hub of resources integrated in different repositiories*
    - *Program of webinars*
    - *Pilot of MOOC*
- **The EdSoc shall engage students who may be interested in academic careers.**
    - *Survey with student branches are student chapters, affiliated with local chapters*
- **The EdSoc will strength its ties with EAB and aligned activities.**
    - *Chairing educational communities in Collabratec*
    - *Supporting Chapters HKN in education*
- **The EdSoc Society will proactively approach other Organizational units**

- To offer tutorials on educational techniques and technologies that would be held at their flagship or other major conferences with new educators in attendance.
- To explore collaborations with CS
- To explore contacts with EA Committees of other Regions
- **The EdSoc will continue interfacing with and writing sister society agreements**
  - To identify and propose educational contents in MoU with other Societies

ACTIVITIES:

1. DLP plus other distinguished educational activities

The activities described below are under the following strategies:

- **The EdSoc shall help to develop web-based educational resources meeting the needs of a membership that is geographically initially in English, but then expanding to other languages.**

- **The EdSoc shall be a relevant source for information and resources for the engineering educator and support the educational needs of faculty members and academic departments.**

In the next months:

Following the renewal and updating on the DLP with the "Distinguished Lecture and Educational Activities Program Committee" (DLEAPC), a new call is now open to apply for Chapter Chairs in Education Society which they are planning new events in the near future.

We have a request by the moment:

- IEEE Education Society Hong Kong Chapter is now collaborating with Education University of Hong Kong for organizing TALE. Leon Chi-Un Lei TPC Co-chair, TALE 2017, Vice-chairman, Edu Soc. HK Chapter, and Dr. Gary Wong, General Co-chair, TALE 2017; Chairman, Edu Soc. HK Chapter)

I am in parallel preparing a new call to provide a portfolio of educational resources, in webinars and workshops format, necessary to enhance the EdSoc members professional development. Distinguished lecturers participating in events under DLP will be invited as well to lead a webinar.

This proposal is fully aligned with the project "Early Career Faculty Development" of the Faculty Resources Committee of EAB.

This collection would be offered under license Creative Commons through the portal of the IEEE Education Society.

Last events supported:

We have supported in the last months under DLP three events:

- APEL'2016, organized as an international conference on pedAgogical aPproaches and E-Learning (APEL'2016), at the Faculty of Science and Technology (FSTF -USMBA), Fez-Morocco. This event is intended to be an

interdisciplinary forum for researchers and socio-professional actors to debate the development and promotion of instruction and training based on ICT through implementing adapted, scalable and open action plans, and by taking into account pedagogical aspects and organizational policies that go beyond a mere technical view.

Organizer: The APEL'2016 conference was organized by the Faculty of Sciences and Technology of Fez, as the large-scale event of the USMBA research center TICSM, with the technical support of IEEE Morocco Section and the Moroccan IEEE Education Chapter, in partnership with the University of Sidi Mohamed Ben Abdellah and with the support of the Centre National pour la Recherche Scientifique et Technique (CNRST-Maroc). The conference was also supported by IEEE Education Society through the DLP (Distiguished Lecturer Program).

Title of keynote and lecturer: "Communities based on Open Educational Resources", was animated by Pr. Edmundo Tovar.

The total number of participants to the APEL'2016 event was 144 participants (80 in the main conference). The participants were professors and PhD students from different Moroccan universities

- Event on teaching methods in software engineering, flipped classrooms, project-based learning held in March 2016 in Calgary, Alberta, Canada at the University of Calgary.

  Organizer: Chair of the computer chapter in the southern Alberta section (SAS in the process of opening a new education chapter.

  Title of keynotes and lecturer: A talk on Engineering and Computing education by Dr. Rob Reilly and a pannel discussion on the same topic, and anothert talk by Dr. Rob Reilly on creativity in programming followed by demos of students and programming enthusiasts of their respective projects.

  The total number of participants was 36 and 42 respectively

- Two events in Tunisia:

  1. Journées Internationales de l'Innovation Pédagogique dans l'enseignement supérieur JIP'2016

  Organizers: Institut Supérieur des Etudes technologiques de Gabès (ISET de Gabès) and Université Virtuelle de Tunis (UVT) with IEEE Tunisia Section, IEEE Education Society, Institut Supérieur de l'Education , Centre de Didactique et de Pédagogie Universitaire (CDPU), IAssociation de la Promotion de la Recherche et de l'Enseignement Virtuel (APREV) , l'association Pro-Didactic et l'université de Gabès, avec la participation de l'IET-IT-ET.

  Title of keynote and lecturer: An extensión of the openness concept for educational purposes as result of the advances in the digital technologies, Edmundo Tovar

  2. The Tunisian Students and Young Professionals Congress (TSYP) is the IEEE Tunisia section's Annual Meeting where more than 300 engineering

students from several Tunisian public and private universities, as well as young professionals, gather together to learn further details about the IEEE technical, professional, and education benefits; and to discuss the future engineering challenges worldwide and in Tunisia. The purpose of this event was to help undergraduate, graduate students, and young professionals gain further insight, enabling exchange of knowledge and skills

Title of keynote and lecturer: Who is who, or can be, in ICT education?, Edmundo Tovar

2. Collaboration with MERLOT and MoU between EdSoc and MERLOT.

The activities described below are under the following strategies:

- **The EdSoc shall help to develop web-based educational resources meeting the needs of a membership that is geographically initially in English, but then expanding to other languages.**
- **The EdSoc will continue interfacing with and writing sister society agreements**

MoU with MERLOT

The motion of a MoU carried in the last Board of Governors meeting held June 27, 2016, was in process to be marked up by the IEEE lawyers before its signature. There has been probably a misunderstanding because IEEE staff didn't understand the scope of this MoU according to the news I received some months ago.

I remind you the main objectives of this MoU:

- Enable MERLOT and the IEEE Education Society to effectively and efficiently serve their constituents by providing joint community activities and promoting the sharing of tools and resources.
- Enable the higher education community to take advantage of high quality open online resources and services through the collaborative initiatives of MERLOT and the IEEE Education Society.
- Increase visibility of MERLOT and the IEEE Education Society with each other's constituencies.
- Provide opportunities for collaboration among our constituencies.
- Provide increased value to our constituencies

It's urgent to clarify which is the current status of this MoU and impulse its signature

Communities in MERLOT

On the other hand, the MERLOT's project with the goal of building two new communities - Computer Science, and Information Systems (IS) - is progressing. The collection of CS and IT/IS online learning materials is a resource for higher education faculty to use in courses they teach, that align with CSAB curricular standards.

EdSoc has participated firstly recruiting mainly volunteers to both Task Forces, Now IEEE EdSoc has recently endorsed MERLOT's two new discipline portals, along with IEEE Computer Society. The endorsement is a consequence of the MERLOT

taxonomy for those two disciplines that are aligned with the Computer Science Accreditation Board (CSAB) recommended list of undergraduate course topics. Instructors teaching those disciplines can readily discover MERLOT learning materials that are connected with their CS and IT courses.

MERLOT has announced the reformulated InformationTechnology discipline" has been promoted to a full Editorial Board.

<u>Development of a MOOC in IEEEx about OER.</u>

To be published in August, this initiative is leaded and reported by Manuel Castro.

3. <u>Relations with EAB</u>

The activities described below are under the following strategies:

- **The EdSoc will strength its ties with EAB and aligned activities.**

<u>EAB miniseries:</u>

I attended to the miniseries of EAB 2017 as member of the this of the Faculty Resources Committere (FRC). I want to highlight the strong presence of distinguished members of EdSoc in different committees, as Hamadou Saliah-Hassane, Maria Mercedes Sarrondo-Petrie in CGAA, Russ Meier, Leonard Bohmann and Lance Perez in CEAA, and Russ Meier as President elect in URC.

> The most important thing for me is that, besides to have individual participations, the presence of EdSoc is stronger with more visibility.

> My efforts as VP EA and Awards follow the line of EdSoc be recognized as special stakeholder in the implementation of the portfolio of programs of all the regular Committees of URC.

> This is already reflected in the review process of the IEEE EAB Operations Manual, about FRC in particular, at the level of "Operational Plans and activities". The text says "FRC will work with MGA Board, TAB, IEEE Education Society, and other relevant IEEE organizational units to enhance IEEE EAB"

> This draft is being presented this weekend to the EAB to be approved.

<u>Collabratec:</u>

I talked with EAB in the EAB miniseries to know the current status of Collabratec and EAB. After the efforts to create a first community about EA, there has been created, finally, the "Engineering Faculty of Tomorrow Community". On the other hand, Collabratec has living a strong impulse with the release of a new version with more functionalities and a greater support to moderators. I am working with them how to involve and encourage the participation of members of EdSoc in this Community.