Professional and Educational Activities Committee

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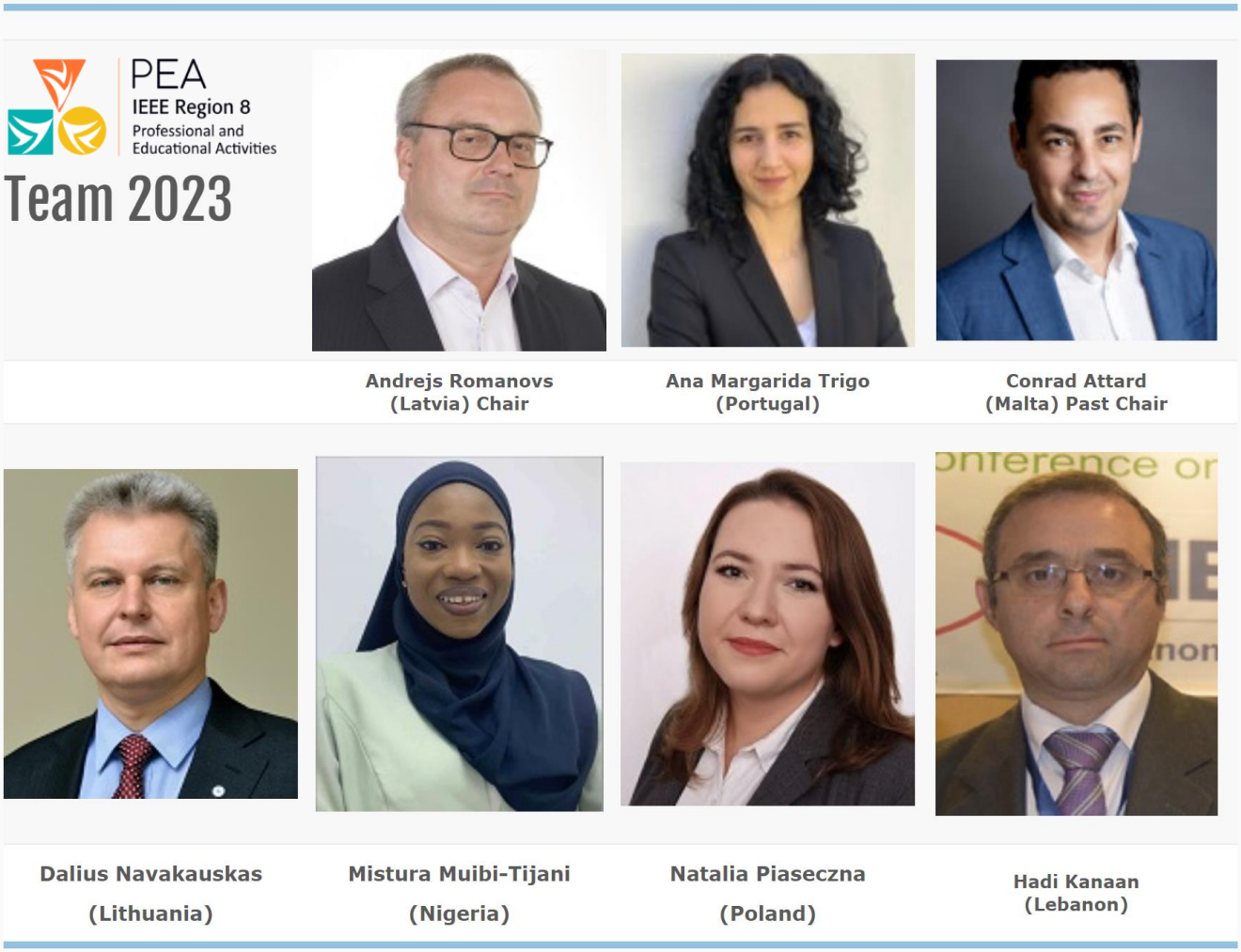
PEA Committee in 2023

Transition process was organized smoothly and newly appointed committee start to work at the beginning of the calendar year 2023.

PEAC's mission is to coordinate educational activities programs in Region 8 including pre-university, university-level and continuing education, and to promote the public awareness of IEEE educational programs and resources for educators, engineering professionals, parents, students, IEEE volunteers and members, and the public. To serve as contact point for Region 8 Educational Activities and Professional Activities officers and members. To encourage and support local IEEE organizational units to organize professional and educational seminars and workshops in Region 8 and to train local tutors for these activities. To promote the development of non-technical skills programs in order to meet the ever-changing landscape of modern education, as well as the changing needs of engineering students and professionals.



Goals

1. Encourage and advise the appointment of local PEA officers and Educational Activities Committees, and the establishment of PEA activities in all Region 8 Sections.

   KPI: Number of PEA officers in Sections

2. Serve as contact point for Region 8 Educational Activities and Professional Activities officers and members in Sections.

   KPI: number of requested/resolved messages

3. Promote educational activities and inform IEEE volunteers and individual members about PA products and services, and their importance and value. Support and motivate to create PE events locally and cross-sectionally.

KPI: number of eNotice/webcast delivered, number of unique clicks on links in eNotes/emails, number of events organized, number of participants

4. Support IEEE Educational Activities Programs by promoting, and whenever possible funding them.

4.1 Continuing Professional Education Programs, such as IEEE Learning Network (ILN), IEEE eLearning Library, IEEE Credentialing Program, IEEE Innovation at Work

KPI: number of participants, distribution by countries and topics, number of taken courses

4.2 University Education Programs, such as EPICS (Engineering Projects in Community Service), IEEE-Eta Kappa Nu, Teaching Excellence Hub, accreditation with ABET.

KPI: number of participants, distribution by countries, number of organized STEM workshops, number of project applicants, number of winners

4.3 Pre-University Education Programs, such as IEEE TryEngineering Month, IEEE TryEngineering Summer Institute, TryEngineering Together, STEM Grants.

KPI: number of participants from, distribution by countries, number of grant applicants, number of winners

5. Promote and support IEEE global and Region 8 local programs, such as EAB Awards, IEEE Education Week, IEEE Region 8 Robot Championship, Region 8 Acceleration Program, Local Language Program, etc.

KPI: number of applications, number of participants, distribution by countries, number of winners, number of sponsors

6. Recruit speakers to support development of soft skills via PEA Speakers Program. Recruit expert, train and educate local presenters/trainers for PA topics in Region 8.

KPI: number of speakers, number of training sessions

7. Establish working cooperation with Region 8 Standing Committees (Action for Industry, Entrepreneurship) and AdHoc Committees (Continu>Ed, Educational Infrastructures, Engineering Projects in Community Service), collaborate with Educational Activities Board (EAB) and IEEE–USA on PA products and services to enhance members services and employment prospects.

KPI: number of joint events

Progress since the last report

IEEE Region 8 Robot Championship 2022, Malta, December 3-4, 2022

The first international IEEE Region 8 Robot Championship is aimed to promote science, technology, engineering, and mathematics (STEM) among IEEE members, and it focuses on STEM communication, entrepreneurship, creativity, problem-solving, and teamwork. Two important STEM Workshops were organized linked to the Robot Championship - STEM workshop on hardware and software in robotics & a STEM workshop for educators.

The RC2022 awardees:

First Place: Alpha Beetle, Malta - Zack Farrugia, Jean Paul Bonavia and Gabriel Giordmaina. Additional 4 awards - Best Looking Robot and Branding Judges' Choice, Most Effective Add-on, Best Design and Best Pushing Power.
Second Place: AI Robotics, UAE - Krishna Ajith, Ryan Fernandes and Sherwin Dsouza.
Best Maneuverability Award: Droid Dominion, Malta - Lydin Camilleri
Best Teamwork Award: Electro Reinvented, Cyprus
Best Tactics Award & Best ChallengerAward: Team Flam, Tunisia

Awardees of STEM workshop on hardware and software in robotics & a STEM workshop for educators:

1st place: Manipal Academy of Higher Education AIRobotics, United Arab Emirates
2nd Place: MCAST Alpha Beetle, Malta
3rd Place: Cyprus University Electro Reinvented, Cyprus

On-going programs. IEEE Region 8 Acceleration Program contest, August 2022 - May 2023

The IEEE acceleration contest is a program aiming to promote educational activities among IEEE volunteers and IEEE entities in Region 8, the program allows local initiatives to get higher visibility and to be supported by the prestigious IEEE Region 8 Technical & Educational activities board. Applications were collected in April-September 2022, decision has been made in October 2022, evaluation to be done in May 2023.

Congratulations and a huge well done to Jorge Torres Gome & Lukas Stratmann from the IEEE German section who are the winners of the IEEE Region 8 Acceleration Program contest, Pre-University Category with 'Climate Change Lessons STEM in the K-12 Education Level'! They have been awarded the amount of $500. Results will be collected and evaluated in May 2023.

On-going programs. Local Language program, October 2022 – June 2023

The Local Language program is intended to promote in Region 8 IEEE activities and content in different languages, aside from English. This activity is funded by Region 8 and local ambassadors are requested to arrange several events in their selected local languages.

Were received 86 applicants in total, 15 of them has been approved and 9 applied for funding. $1800 are reserved for awards of program' winners. Results to be collected and evaluated in June 2023.