

Section Name: *Qatar Section*

Reporting Officer Name: *Ridha Hamila*

Section Vitality

Vice Chair of Qatar Dr Khalil Shady, reallocated/moved to UK.

Qatar Section election for new chair, vice chair, secretary and treasury has already started. Deadlines for the election are:

- *Deadline to submit nomination: 15th of November 2022*
- *Announcing nominees and inviting members to cast a vote: 30th of November 2022*
- *Deadline to cast vote: 14th December 2022*
- *Announcing results: 20th December 2021*

- IEEE Qatar Section elected board is having monthly meeting, on the 4th of each month, in order to discuss, brainstorm and make strategic plan the different activities of Qatar section over the year.

- Several activities are carried out by the section with the aim to disseminate knowledge and attract more people to Qatar section:

a. Engaging and Participation of Industry

- 1) *Activities/Programs/Initiative to Foster Industry Relations:*
 - Need to have more International Industry Exposure; Dr. Khalil Shady, the treasurer is trying to have industry partners get involved in the Qatar Section activities.
 - Communication between the Industry Relation officers of various section can help in sharing experiences.
 - Need to engage and involve industry personals in IEEE activities
- 2) *Changes required by IEEE to Improve Industry Relations:*
 - More IEEE funding to encourage meetings with Industry People at initial stages.
 - Need strong marketing materials to convince Industry to join and actively participate in IEEE events and programs.
- 3) *Major Successes in terms of Industry Relations:*
 - So far only assigning Industry Relation Officer for the section. The pandemic has affected the initiative for the Industry Relation Officer.
- 4) *Steps to foster further Industry Relations:*
 - Arranging Online Technical Workshops, Online Seminars for the Members from Industry. Based on their feedbacks, the section is planning monthly webinars with industry people after the summer break.
 - The 1st Online Workshop/Webinar was organized in August 2021: 3 keynote speakers from local and international industries already confirmed their talks.
 - Such webinars will foster interest among industry personals.

b. Attract and Support Students and Young Professionals

- 1) *Activities/programs/initiatives work well in your Section to support Students and Young Professionals*
 - Technical Seminars and Field trips focusing the Student Members, exposing them to the Work environment and opportunities to work there in the future.
 - Encourage and funding them for next SYP Congress, as they had conducted a very successful online SYP congress this year despite the pandemic.
- 2) *Changes required by IEEE/the Region/your Section to better support Students and Young Professionals*
 - Subsidies for conferences and broadcasting it so that students members are aware of it.
 - Advertising IEEE activities and events through social media in order to spread the information and attract young scientists, engineers and students
- 3) *Major successes since the last meeting in terms of Students and Young professionals*
 - Have participated in the online SYP congress
 - Have been involved in conducting a website design competition for the Ministry of Qatar (www.cra.gov.qa)
 - QUIEEESB received the MGA Exemplary Student Branch Award this year
 - QUIEEESB students participated in the student paper contest and won awards and recognition
- 4) *Tasks to support the Students and Young Professionals*
 - Conducting regular meetings with them
 - Informing them regarding the technical seminars and Field Trips.
 - Engage students through various activities organized by IEEE local center.

c. Membership

IEEE Qatar Section has done tremendously well with its communication efforts with the existing and the new members through the events arranged. The events such as the successful ICIOT conference (<https://iciot20.com/>) has helped a lot in increasing its visibility and thus increasing membership. The efforts have helped in achieving the gold medal for New Membership and Retention from IEEE Membership Committee.

The section is also collaborating a lot with industry professionals by being part of more conferences and workshops in Qatar.

Challenges: Lower of the membership fees specially for Qatar Section during this pandemic times.

Students

Major Activities of IEEE QU Student Branch

2020-2021

1. **EEEITC 2021:** Effects of Virtual Learning on Student Societies including a discussion about the effect of COVID-19 on the hosting event on club levels among other topics.
2. **I Graduated...Now What?** A discussion with QU EE Alumni about the challenges they met right after graduating and how they coped with their career.
3. **IEEE Day 2020:** Several online activities including talks by Mr. Karmis, the chair of IEEE Qatar Section young professional's affinity group and by Mr. Abderrhman Zakaria from KTC Qatar.
4. **Python Workshops:** A series of workshops on Python.
5. **Virtual Student and Young Professionals Congress (VSYP):** Founders of Multiple startup companies talking about their experience.

2021-2022

1. **Nationwide High School Competition:** The Qatar University IEEE Student Branch commenced a high school competition which aimed at enhancing the participants' engineering skills through designing a "Solar Tracker". Top 10 groups competed in a final event in February 2022 where the best 3 prototypes were chosen and awarded.
2. **NCC-KAHRAMAA Visit:** Senior EE students paid a visit to the National Command Centre of Qatar General Electricity and Water Corporation (KAHRAMAA) where they were familiarized with the practical aspect of Qatar's Electricity Distribution System such as SCADA.
3. **MQTT: IoT Made Easy:** A webinar given by the President of the club on the MQTT IoT communication protocol. The webinar introduced the protocol and clarified some terminology along with its implementation.
4. **Workshop On Electric Vehicle Integration:** A workshop given by several keynote speakers discussing the impacts and challenges with regards to integration of V2G, G2V and V2X.
5. **Control of DC and AC Microgrids:** Talk by Dr. Shiraz where he introduced the microgrid and its types along with various techniques used to control them. Their relative advantages and limitations are also discussed.
6. **Annual IEEE Day Agenda:** Several online activities including a talk by Eng. Abdur-Rahman, who is an alumnus of Qatar University on Artificial Intelligence.

Affinity Groups and Chapters

CH08868 - Qatar Section Joint Chapter, COM19/IT12, Chapter Chair Pr. Tamer Khattab, February 2019

CH08891 - Qatar Section Chapter, IE13, Chapter Chair Dr Sertac BAYHAN, December 2020.

Affinities

Qatar Section Affinity Group, WIE (WE80095)

Qatar Section Affinity Group, YP (YP80095)

Texas A & M Univ At Qatar, WIE (SBA64781)

Texas A&M Univ at Qatar, Lambda Mu (HKN224)

Conference Organizations:

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- 3rd International Conference on Smart Grid and Renewable Energy, SGR-2022, from 20-22 March 2022, Doha, Qatar.
 - The 2022 IEEE Spoken Language Technology Workshop (SLT 2022), will be held on 9th - 12th January 2023, Doha, Qatar.
 - International conference on Innovation and Technology Advances for Sustainability, 1-3 March 2023, Doha, Qatar.
 - ENERGYCON'2024, Doha, Qatar.