IEEE Young Professionals Bangladesh and IEEE Bangladesh Section jointly presents the year’s flagship event, **“IEEE Student Transition and Elevation Partnership (STEP) 2020: Transition to a Sustainable Future.”**

On 5th September 2020, IEEE Young Professionals Bangladesh has successfully organized the year’s flagship event, **“IEEE Student Transition and Elevation Partnership (STEP) 2020: Transition to a Sustainable Future”** for the very first time, on a virtual platform. The event was committed to providing a dynamic program for facilitating the transition from Student member to young professional by introducing the opportunities and benefits of IEEE membership during the onset of a STEM career. The event was jointly organized by **IEEE Young Professionals Bangladesh** and **IEEE Bangladesh Section** in collaboration with **IEEE BUET Student Branch**, **IEEE NSU Student Branch,** and **IEEE AIUB Student Branch**.

The event was inaugurated with the kind words by **Dr. M Tanseer Ali**, *Vice-Chair (Technical), IEEE YP Bangladesh Section.* He thanked the entire management team and committee members and volunteers, and executives for working hard to make the event successful. He also provided an overview of the whole event design and introduced all the event’s respected speakers. He then explained the significance and benefits of IEEE Membership and joining IEEE YP Affinity Group. Later, **Prof. Celia Shahnaz**, *Ph.D. SMIEEE, FIEB; Chair, IEEE Bangladesh Section, Chair, Women in SIGHT Working Group* took the screen. The speaker highlighted the mission and vision of the prestigious flagship event, IEEE STEP 2020. She also thanked the organizers for organizing such a big event by collaborating among the student branches and arranging such an informative event for enthusiastic students.

The first session was introduced as **“Prospects of E-Learning Environment: Bridge Between Knowledge-based Education and Skill-based Profession,”** initiated by **Muhammad Qasim Pasta,** *Assistant Professor, Usama Institute of Technology, Member, IEEE YP Karachi Section.* The session was solely focused on explaining the advantages of e-learning along with all of the bright sides of e-learning and education. He portrayed the key points of knowledge-based education through E-Learning and hands-on-skills-based learning in online platforms. He also encouraged the students to come forward with fresh and innovative ideas for sustainable development through e-learning.

The second session was named “**Problem Solving Approaches in POST COVID Scenarios by Technologists,”** initiated by **Sabyasachi Mukhopadhyay**, *Assistant Professor, Faculty of Analytics in PG Management Studies, BIMS Kolkata (Affiliated to MAKAUT), IEEE Kolkata Section.* He talked about the organizing lists, user beneficiaries, breakthroughs, benefits, and risks of today’s technologies. The speaker also explained different prospectuses like problem canvases, solution canvases, grant charts, and many more. Lastly, he explained the organizing lists, user beneficiaries, breakthroughs, benefits, and risks of today’s technologies, and the research projects’ cost-effectiveness.

The third session was entitled **“An insight into the prospects of E-Learning Environment: “Bridge between knowledge-based Education and skills-based Profession”** initiated by **Dr. M A Jabber**, *Professor, Vardhaman College of Engineering, Vice Chair, IEEE Hyderabad CS Chapter.* He explained the classical approach of education on knowledge transmission, development of learning theories and mentioned the four revolutions, i.e., the invention of reading and writing, the emergence of the profession, development of technology, and finally, the development of electronic technology. He provided the types of E-Learning such as Web-based training, Supported online learnings, Informal E-learning, etc. He also emphasized the benefits of E-Learning that included, uniformity of delivery of training, achieving cost reductions, and log or track learning activities.

The fourth session was entitled **“Sustainable Energy Development application of Artificial Intelligence in Hydropower Plant and role of IoT to avoid spreading of COVID-19,”** which was initiated by **Krishna Kumar**, *Research and Development Engineer, UJVN Ltd., Uttarakhand Research Scholar, IIT Roorkee.* He portrayed the typical structure of a hydroelectric power plant and talked about the barriers of hydropower development and the issues of operating a hydropower plant. He then proposed an IoT architectural model to avoid COVID-19 in hydropower plants and the benefits and economic impact of Hydroelectric power plants.

The fifth session was described as **“Sustainable Future: Coping with Post-Pandemic World,”** which was initiated by **Zafir Shafiee Chowdhury,** *Co-founder, Bondstein Technologies, Co-founder, Singularity Limited, IEEE Bangladesh Section.* He provided a brief idea regarding the sectors that mostly sensor industries will be highly impactful and be revolutionary. He mentioned a narrowband IoT Technology named Lorawan, a NB-IoT, which will create massive impacts soon.

The sixth session was entitled “IoT Prospects of E-Learning in Education and Skills Enhancement Trainings,” initiated by **Dr. Md. Tausif Ahmad,** *Head**of**Electrical and Electronics Engineering, Motihari College of Engineering, Motihari, IEEE Kolkata Section.* He emphasized the International Telecommunication Unit and the technologies that influence Education, Training, and Learning and the digital collaboration that includes the synchronous and asynchronous system. Also, he highlighted the impact of new technology on the learning environment that has allowed learning to become a more dynamic approach.

The seventh session was about **“Importance of STEM Education and its Impact,**” which **Raamish Khan,** *SAC Ambassador, IEEE Islamabad Section, Electrical Engineer, Business Excellence PVT Ltd.* He portrayed what STEM signifies, along with the importance of STEM Education. Later, he suggested the steps that will help implement STEM Education and highlighted the challenges and barriers to implement STEM Education. The speaker concluded by describing the benefits of STEM Education.

The eighth session was entitled **“Importance of Research for Sustainable Growth to survive and grow in Post-Pandemic Era: A Journey,”** initiated by **Dr. Ashish Khanna**, *Associate Professor, Maharaja Agrasen Institute of Technology, IEEE Delhi Section.* He talked about different research approaches and methodologies. The speaker discussed how one should handle data and work with data visualization and analysis. Moreover, he suggested the participants concentrate on publishing papers and publication houses and work with startups, clinical data, sustainability, and prototypic research approaches.

The ninth session was entitled **“Necessity of Community Engagement for Sustainable Project Design in the post-pandemic world”** initiated by **Dr. Shaikh Fattah**, *Chair, IEEE HAC Educational Chair, Advisor, IEEE YP Bangladesh Section.* He explained the main motive of sustainable development goals and their area of application. He then signified the principles of effective Community Engagements along with its key factors. He also introduced sustainable project designing models and participatory project designs. Lastly, he highlighted the multidisciplinary involvement as well as the planning and implementation of the projects.

The day-long event was concluded with a closing speech from **Dr. Sajid Muhaimin Chowdhury,** *Chair, IEEE YP Bangladesh Section.* He introduced the IEEE YP Bangladesh Section and the essential responsibilities and advised the student members to join IEEE YP Affinity Group soon. He concluded the event with warm thanks and good regards to the entire organizing committee and management team of IEEE STEP 2020 and IEEE YP Bangladesh Section. The grand event witnessed the participation of 304 registered participants from all across the world.

