Challenges and ways forward for future engineers-IEB Australia chapter's initiative

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Disclaimer

Any opinions, findings, conclusions and recommendations in this presentation are those of the author's only, and do not necessarily reflect the views of any organizations or institutions.

Presentation overview

- Introduction
- Challenges in Australia and beyond
- Ways of overcoming challenges
- □ Revitalization of IEB Australia Chapter
- ☐ Recent Activities of IEB Australia Chapter

Introduction

Engineers have the ability to turn ideas into realities, which have a positive effect on people's everyday lives.

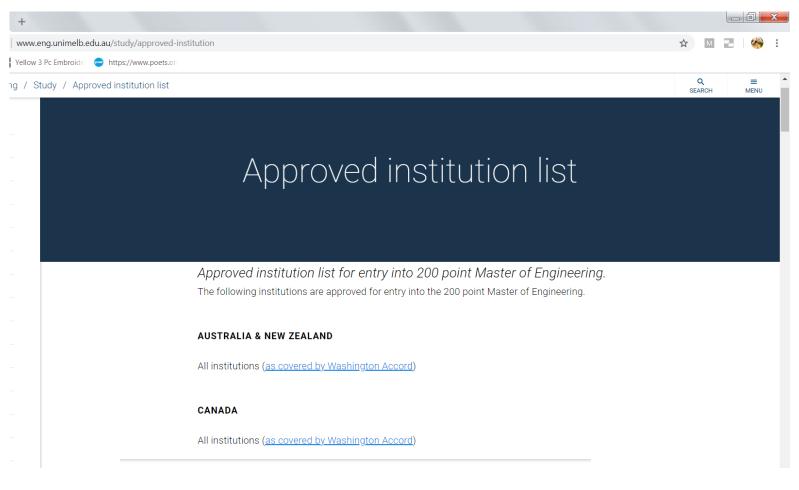
Bangladeshi engineers (2000-2500 approx.) are contributing in the following areas of Australian economy:

- □ Telecommunication ☐ Transport Building □ Academics and research ☐ Council Manufacturing Defence ■ Digital technology
- Banking
- □ Financial
- Airlines
- ☐ CSIRO
- Others

Challenges in Australia and beyond

- □ Degree is not Washington Accord Accredited
- □ Lack of awareness on Continuing Professional Development (CPD), registration with engineers Australia (CPEng, NER) and states (i.e. RPEQ)
- ☐ Lack of communication skill
- Non-professional resume
- ☐ Fear on writing selection criteria
- ☐ Inadequate net-working with professionals
- ☐ Inappropriate selection of post graduation courses

Why Washington Accord Accreditation?



JAPAN

All institutions (as covered by Washington Accord)

MALAYSIA

All institutions (as covered by Washington Accord)

Melbourne University 200 point Master of Engineering Entry Requirements

Ways of overcoming challenges

- Washington Accord Accreditation
 - ✓ Engineers Australia (EA)
 - ✓ Board of Accreditation for Engineering Technical Education (BAETE), Bangladesh and
 - ✓ IEB headquarter
 - Bangladesh is now on Provisional Accreditation Category
 - ✓ Continue mentoring from Singapore
 - ✓ Continue mentoring from Malaysia
 - Must need support from EA and other engineering alliance country for full accreditation

Ways of overcoming challenges

- ☐ Continuing Professional Development (CPD)
 - ✓ Attend seminar, conference, short course, training, post graduation etc.
- ☐ Registration with engineers Australia (CPEng, NER) and states (i.e. RPEQ)



Ways of overcoming challenges-

Registration with Engineers Australia (EA)

☐ Pathways:

- ✓ Standard member- Stage 2 qualification with 16 elements
- ✓ Via interview- At least 20+ Years' Post Graduate experience including significant responsibilities in leading Teams or Projects.
- ✓ Chartered for academics-Special requirements
- ✓ Specific area of practice
- ✓ Chartered for defence-Navy

IEB Australia Chapter Formation in 2012

Www.Sydneybashi-Bangla.Com

Rajuk Chairman & IEB president Engr. Nurul Huda in Sydney.

Rajuk Chairman & IEB (The Institute of Engineers, Bangladesh) president Engr. Nurul Huda recently came to Australia in an official tour accompanied with chief engineer Emdadul Islam. He came to Sydney on the 22nd of June, 2012 and met in an informal gathering with some Bangladeshi Engineers and their families. During the informal meeting, he shared his fond memories from old days of BUET, discussed the current situation of the Engineering Industry in Bangladesh and other issues of importance such as Expansion of Dhaka city, IEB and as well as answering various questions. He encouraged Bangladeshi Engineers to open an overseas IEB chapter in Sydney. It was an enjoyable time for all of us.



Rajuk Chairman & IEB president Engr. Nurul Huda (Middle)







Revitalization of IEB Australia Chapter

Objectives of IEB Australia Chapter:

- 1. Work closely with Engineers Australia (EA), Board of Accreditation for Engineering Technical Education (BAETE) Bangladesh and IEB for achieving Washington Accord Signatory of IEB accredited engineering degrees;
- 2. Engage Bangladeshi engineers on the awareness of Professional Registration with EA (e.g. CPEng, NER), States Registration (e.g. RPEQ) and Continuing Professional Development (CPD);
- 3. Arrange short training with the engagement of key EA registered professional Bangladeshi Engineers and EA personnel to achieve objective no. 2;
- 4. Share senior Bangladeshi Engineers industry experience (including challenges faces, achievements etc.) to the newly migrated/existing engineers for better career path;
- 5. Organise CV/selection criteria writing workshops for new migrants and graduate engineers with the help of senior Bangladeshi Engineers and professional recruiters;
- 6. Bring all Bangladeshi Engineers under a common umbrella to fill the gap between industry and personal development;
- 7. Arrange symposium/conferences with the participation of researchers, academicians and industry professionals; and
- 8. Assist Bangladesh with active participation on relief when major disaster/calamities happen.

Newly formed Executive Committee of IEB Australia Chapter

- 1. President Engr. Abdul Matin (BUET)
- 2. Vice President (Academic & International) Engr. Dr. Zahid Hoque (KUET)
- 3. Vice President (Member Services) Engr. Sohel Karim (RUET)
- 4. Vice President(Engineers professional Services & Social Welfare) Engr. Dr. Neaz Sheikh(CUET)
- 5. Vice President(Administration & Finance) Engr. Saiful Islam (BUET)
- 6. The Honorary General Secretory Engr. Dr. AHM Kamruzzaman (KUET)
- 7. The Honorary Assistant General Secretory (Academic & International)–Engr. Atiqur Rahman Chopol (KUET)
- 8. The Honorary Assistant General Secretory(Member Services) Engr. Shafiq Shuvo (RUET)
- 9. The Honorary Assistant General Secretory (Engineers Professional Services & Social Welfare) Engr. Hasan Ziad (CUET)
- 10. The Honorary Assistant General Secretory(Administration and Finance)–Engr. Salim Ahmed (BUET)
- 11. Secretory for Cultural Affairs Engr. Jesmeen Keya (CUET)
- 12. Secretory for Cultural Affairs Engr. Sadia Afrin (RUET)
- 13. Secretory for Cultural Affairs Engr. Abu Sayeed Md Asadullah (KUET)
- 14. Executive Member/Advisor Engr. Siddiqur Rahman (RUET)
- 15. Executive Member/Advisor Engr. Md Abu Raihan (RUET)
- 16. Executive Member/Advisor Engr. Dr. Ataur Rahman (KUET)
- 17. Executive Member/Advisor Engr. Dr. Rafigul Islam (KUET)
- 18. Executive Member/Advisor Engr. Rashid Ahmed Patwary (BUET)
- 19. Executive Member/Advisor Engr. Tanvir Mazumder (BUET)
- 20. Executive Member/Advisor Engr. Ashim Chowdhury (CUET)
- 21. Executive Member/Advisor Engr. ANM Faisal Shishir (CUET)
- 22. Executive Member/Advisor Engr. Mohammad Chowdhury(Jetu) (CUET)
- 23. Executive Member/Advisor Engr. Md. Baharul Islam (Pinnu) (KUET)
- 24. Executive Member/Advisor Engr. Engr. Arman Hossain (IUT)
- 25. Executive Member/Advisor Engr. Mussarat Hossain (BUET)
- 26. Executive Member/Advisor Engr. Dr. Jahangir Hossain (RUET)
- 27. Executive Member/Advisor Engr. Dr. Saniya Sharmeen (BUET)
- 28. Executive Member/Advisor Engr. Mohammad Elias (BUET)
- 29. Executive Member/Advisor Engr. AZM Mohiuddin (RUET)

Newly formed Executive Committee of IEB Australia Chapter



Newly formed Executive Committee of IEB Australia Chapter



American Society of Civil Engineers

Quarterly

Bangladesh International Section

Volume 74

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ASCE Fid-reunion 2018



ASCE Eid-reunion 2018 was observed in a befitting manner recently. The amusing occasion was organized on the evening of July 09, 2018 in WVA Hall. Road # 27(old), Dhanmandi R/A, Dhaka. The function was attended by a large number of ASCE Members accompanied by their spouses. The entertaining congregation began with

introductory

speech by Engr. Didarul Alam, F ASCE. President of the Section followed the introduction of the attendees

Thereafter, an entertaining musical program was offered with melodious song sung by two female artists. A sumptions dinner was then served and the atmosphere became lively and with presentation of humors and friendly gossip among the participants. The lively get-together concluded with an exciting raffle draw

2018 JSCE Annual Meeting



A 4-member Team of Institution of Engineers, Bangladesh (IEB) attended 2018 Japan Society of Civil Engineers

(JSCE) Annual Meeting "Role of Civil Engineering in Developing Social Innovation" and Int'l Program held on 29-30 August, 2018 at Hokkaido University Sapporo Campus, Sapporo city, Hokkaido, Japan. The Int'l Program includes - 1) Int'l Panel Discussion (IPD), 2) The 20th Int'l Summer Symposium & Int'l Workshop for Young Civil Engineers 3) Technical Tour, and reception. The theme of the Int'l Panel Discussion was "Comparison of Infrastructure Maintenance & Resilience among Asian and Western Countries". The IEB team members took active participation in the program through meaningful interactions. The program ended with a technical tour on the concluding day covering bridges. expressway site, CERI for cold region and Otaru Museum.

International Women's Day Observed



International Women's Day 2018 was observed in LGED in a befitting manner on March 08, 2018 with the spirit of collective action and shared ownership for deriving gender parity. On this auspicious day LGED honoured nine self-reliant women from various strata of life. Theme of this year's observance was "Its time for women: mainstreaming in development/changing face of rural-urban work culture." A function was organized in the auditorium of LGED head office in Agargaon in the capital city of Dhaka Speaking on the occasion as the Chief Guest, Secretary of the Local Govt Division, Mr. Abdul Malek said Bangladesh is moving towards progress with unabated speed under the leadership of Hon'ble Prime Minister Sheikh Hasina and Bangladesh has in

the meantime attained the status of a middle income country from the group of less developed countries. He further said that the present Govt. is implementing various projects towards empowerment of women

Dr. J.R. Choudhury becomes National Professor



Prof. Dr. Engr. Jamilur Reza Choudhury has been recently honoured by the Government as the National Professor most prestigious position in the educational career of a professional. Regarded as an eminent engineering professional, he acted as the President of IEB and dedicated himself for the development of engineering profession and education as well. With an extra ordinary bright educational background. he served in various important positions spanning over long four decades including Professor in BUET, Vice Chancellor of BRAC University and presently as the Vice Chancellor of Asia Pacific University. Prof. Choudhury has attained exceptional repute in teaching. research and as an education advocate. He is widely renowned for his valuable contribution in civil engineering, field and acted as an Advisor to the Gove of

Newly Elected Executive Committee

of IEB Australia Chapter A new executive committee of Institution of Engineers, Bangladesh (IEB) Australia Overseas Chapter for the term 2018 - 2019 has been recently elected in its 1st General Meeting held on September 16, 2018 at 10 Kiriwina Place, Glenfield, NSW 2167, The meeting was attended by many a Sangladeshi Engineers graduated from BUET, CUET, RUET, KUET and IUM.

First part of the GM included a short speech by Engr. Saiful Islam, outgoing convener on the activities of Australia Chapter followed by a brief presentation on objectives, vision and mission of IEB ov Dr. Engr. AHM Kamruzzaman. Besides, the engineers discussed at length on general business, ways and means for enhancing various activities under the chapter. Thereafter, the new executive committee selection process was conducted by Engr. Saiful Islam in an orchestrated manner. In conclusion, Engr. Abdul Matin and Engr. Dr. AHM Kamruzzaman were unanimously voted to be the incoming president and general



The remaining four vice presidents, four assistant general secretary, three cultural secretary and sixteen executive member's positions were also selected.

A Seminar on Land Slides

A seminar has been organized recently by Civil Engineering Division of IEB on Land Slides: Issues, Challenges and the way Forward. The seminar was held on Thursday July 12, 2018 at 5:00 pm in Seminar Room of IEB (Old Bhaban) Mr Mofazzal Hossain Maya MP, Hon'ble Minister for Disaster Management & Relief Ministry graced the occasion as the Chief Guest, while the session was chaired by Engr. Md. Habibur Rahman, Chairman, Civil Engg. Divn. The key note paper was presented by Dr. Engr. Abdul Jabbar Khan, Professor, BUET & Member, Bangladesh Public Service Commission. In his educative paper Dr. Khan provided typical example of Hill Slope Erosion/Landslide, their causes for occurrences, various damages and measures for their mitigation. The Chief Guest in his speech drew attention towards such problems and urged the



engineers help mitigating the same.

Those who spoke on the occasion were Md Abdus Sabur President IEB Md

Habibur Rahman followed by vote of thanks by Dr. Engr. Mizanur Rahman. Vice Chairman, Civil Divn.

Public Service Innovative Workshop



Imporation was organized recently by Road Transport & Highways Division from 20-24 July , 2018 at which was held at Roads & Highways Training Centre, Dhaka. A number of senior officials of Roads & Highways Dept. (MD), Bangladesh Road Transport Authority, Bangladesh Road Transport Corporation, Dhaka Coordination Authority and Road Transport & Highways Division participated in the workshop. The educative workshop was coordinated by the Prime minister office A to I. Mr. Shafikul Islam, Additional Secretary, Ministry of Road Transport and Bridges inaugurated the workshop. As outcome of the workshop, seven innovative idea came up which would be implemented according to the requirement of the

PWD Constructs 20 Storied Residential Building

Public Works Department (PWD) has executed construction of a massive 20 storied building to create accommodation facilities for Hon'ble Justices of the Supreme Court of



Bangladesh under the sponsoring ministry - Ministry of Housing & Public Works. The building has been designed with the blend of modern construction technique and unique architectural design located on a plot of land at 67, Circuit House, Kakrail in the heart of the capital city of Dhaka. There will be in total 76 units each covering 3500 sqft provided with all kind of modern facilities to suit the residential purposes. Cost of the GoB funded project being Tk. 1409.70 million. The buildings have been handed over to the concerned clients after their completion soon.

Bangladesh Railway (BR) has planned to introduce new coaches in meter gage passengers train. With a view to implement the plan, ECNEC has approved the Project for procuring 200 nos new coaches to meet the increasing demand of the passengers. The approval was given in a meeting of the ECNEC Meeting held at the Conference Room chaired by the Hon'ble Prime Minister & Chairperson of ECNEC Sheikh Hasina on October 04, 2016. The said procurement will be made under Chinese Funding at a cost of Tk. 927 crore 52 lac Tk only out of which GoB contribution is Tk. 214 crores. The project will make use of new coaches by June 2020. Due to implementation of the project, it will be possible for inclusion of safe, modern and quality coaches resulting in enhancing railway

revenue through meeting the demand of

BR Introduces New Coaches

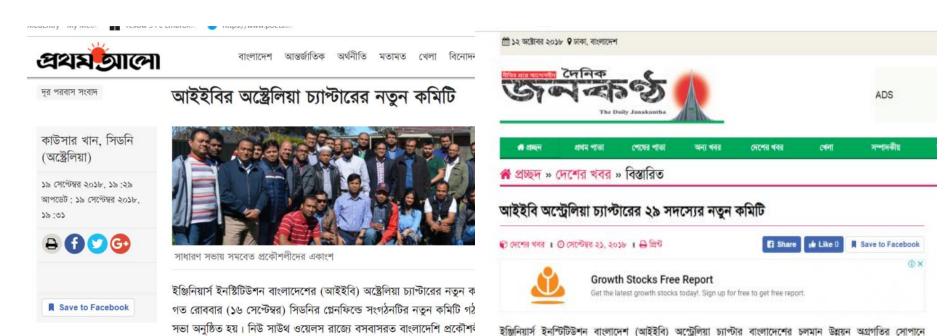
ESCB's Training Programs 896. Occupational Safety, Health & Environment Management (39th Batch): Duration: May 12, 2018 to May 14, 2018; Day and Time: Everyday 10:00 am to 5:00 pm; 3 days, 18 hours; Registration Fee : Tk 5000/- per participants, Tk 4500/- for IEB members; Last date of receiving Nomination : May 08, 2018; Venue ESCB City Campus, IEB Headquarters. 897. Project Management Using PRIMAVERA (17 th Batch): Duration · March 12, 2018 to March 29, 2018-Day and Time: Everyday 6:00 pm to 9:00 pm; 30 hours, 10 classes Registration Fee : Tk 6500/- per participants. Tk 5500/- for IEB members, Tk 5000/- for fresh graduate engineers; Last date of receiving Nomination · March 14 2018 · Venue Training Lab, ESCB City Campus, IEB

Headquarters EDITORS' NOTE

The issue contains news on ASCE Eid-Reunion 2018, attending 2018 JSCE Annual Meeting in Japan by a 4member Team of IEB and election of the office bearers of IEB Australia Chapter for the term 2018-19 including progress of development activities under various departments namely - LGED, PWD. RHD. BR etc and holding of workshops/ seminars by IEB and regular training courses of ESCB. The issue also speaks about conferring upon Prof. Dr. J R Choudhury with 'National Professor' by the Govt., a rare feat among the top intellectuals in the engineering field in Bangladesh.

Editor: Engr. Md. DidarulAlam (F-305122)

Newly formed Executive Committee of IEB Australia Chapter



সর্বাত্মক সহযোগিতা প্রদান করা।

করেন। সভায় সংগঠনের লক্ষ্য ও উদ্দেশ্য নির্ধারণ ও ২০১৮-১৯ সালের জন্য গঠন করা হয়।
গঠন করা হয়।
বিভিন্ন ক্ষেত্রে অংশ নিতে আগ্রহী। চ্যাপ্টারের পক্ষে জানানো হয়েছে দেশ থেকে দূরে অর্থাৎ প্রবাসে থাকলেও তারা গঠন করা হয়।
বিভিন্ন ক্ষেত্রে নিজেদের অবদান রাখতে দৃঢ় প্রত্যয়। গত ১৬ সেপ্টেম্বর অস্ট্রেলিয়ার সিডনির প্লেনফিলেও এ সংগঠনের নতুন কমিটি গঠিত হয়েছে। কমিটির নেতৃবৃন্দ এসব কথা বলেছেন। নিউ সাউথ ওয়েলস (এনএসডব্লিউ) রাজ্যে বসবাসরত সাধারণ সভার প্রথম পর্বে আইইবির সদস্য প্রকৌশলী সাইফুল ইসলাম অস্ট্রেলির ক্ষেত্র অংশ নিতে আগ্রহী। চ্যাপ্টারের পক্ষে জানানো হয়েছে দেশ থেকে দূরে অর্থাৎ প্রবাস প্রকাশিত এ সংগঠনের নতুন কমিটির নেতৃবৃন্দ এসব কথা বলেছেন। নিউ সাউথ ওয়েলস (এনএসডব্লিউ) রাজ্যে বসবাসরত বাংলাদেশী প্রকৌশলীদের বড় একটি অংশ এতে অংশগ্রহণ করেন। অনুষ্ঠানে সংগঠনটির লক্ষ্য ও উদ্দেশ্য নির্ধারণ এবং ২০১৮-১৯ সালের জন্য ২৯ সদস্যের নতুন কমিটি গঠন করা হয়। সভায় সর্বসম্যতিক্রমে প্রকৌশলী আবদুল মতিনকে সভাপতি প্রকৌশলী ড এইচএম কামরুজ্জামানকে সাধারণ সম্পাদক করে নতুন এ কমিটি গঠিত হয়। এর আগে সভার প্রথম পর্বে পেশাদারি প্রকৌশলী সাইফুল ইসলাম অস্ট্রেলিয়া চ্যাপ্টারের বিভিন্ন দিক নিয়ে সংক্ষিপ্ত বক্তব্য দেন। এরপর নানা

First EA and IEB collaboration on 30th May 2018



অভিবাসন গ্রহণ করার প্রতিবন্ধকতার কথাও গ্রেগকে জানান তারা।

সাক্ষাৎকার অনুষ্ঠিত হয়।

অস্ট্রেলিয়া চ্যাপ্টারের প্রতিনিধিরা তাঁর সঙ্গে সাক্ষাৎ করেন। ইএ-এর সিডনির চ্যাটসউডের কার্যালয়ে এ

সাক্ষাতে অস্ট্রেলিয়ার প্রকৌশল ও প্রযুক্তি খাতে বাংলাদেশি প্রকৌশলীদের অবদানের কথা আলোচনা করেন তারা। ইঞ্জিনিয়ার্স অস্ট্রেলিয়ার কাছে বাংলাদেশি প্রকৌশলীদের নিজেদের যোগ্যতা প্রমাণ করার চ্যালেঞ্চগুলো নিয়েও আলোচনা করেন তারা। চার্টারযুক্ত পেশাদার বাংলাদেশি প্রকৌশলীদের অস্ট্রেলিয়ায়

- Washington Accord signatory
- ☐ Contribution to Australian society
- Mitigation of migration challenges and CPEng

EA and IEB collaboration - CPEng Seminar on 4th December 2018

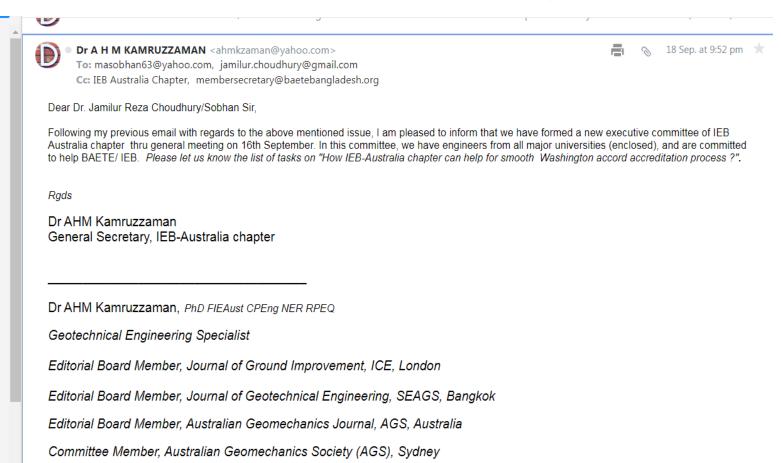


Got EA approval for 150 BD engineers CPEng training free of cost on 4th December 2018.

Correspondences to BAETE, Bangladesh

 Washington Accord Signatory and IEB-Australia chapter's intitiative Yahoo/Sent 🤺 Dr A H M KAMRUZZAMAN <ahmkzaman@yahoo.com> 30 Aug. at 3:42 pm To: masobhan63@yahoo.com, jamilur.choudhury@gmail.com Cc: IEB Australia Chapter, membersecretary@baetebangladesh.org Bcc: Rafigul Islam, KUET Foundation Asia Pacific, vc@kuet.ac.bd, sazzad1999@yahoo.com, Siddig Rahman and 9 more... Dear National Professor Dr. Jamilur Reza Choudhury Sir, First of all, IEB-Australia chapter would like to congratulate you for becoming a National Professor of Bangladesh. You deserve it, we salute you and we will be with you. Dear Mr. MA Sobhan Sir. It was very nice talking to you vesterday after you left Sydney on 12th August. As discussed, we are going to have our IEB-Australia chapter meeting on 16th September (press release enclosed). As you can see, our main objective is to work closely with Engineers Australia (EA), BAETE and IEB HQ to achieve Washington Accord Signatory status for IEB accredited engineering degree. You verbally told me that BD professional engineers affiliated with EA (e.g. FIEAust, MIEAust, CPEng, NER etc) will have significant influence for Washington accord signatory process. For example, EA must support BD application, and prominent alumni from BUET, KUET, RUET, CUET, DUET and others shall convince EA using their professional contribution to Australia. getting more EA membership/CPEng, inviting EA executive at various seminar/conferences/short training and so on. We are committed to do so, but need a bit clearer direction from BAETE/IEB about a list of tasks on"How IEB-Australia chapter can help for smooth accreditation process?". In this regard, we will highly appreciate if you could consult with our beloved national Professor Dr. Jamilur Reza Choudhury sir and other team members of BAETE and, let us know our specific tasks before 16th September 2018. Regards Dr Kamruzzaman for and on behalf of IEB-Australia chapter

Correspondences to BAETE, Bangladesh



Conclusions

■ We have lots of challenges ahead, but will be able to overcome thru working with EA, IEB and BATAE.

■ We need support from these institutions, and will work as a team to achieve our main objective.