

AABEA NIGHT 2022



**American Association of Bangladeshi
Engineers and Architects (AABEA)**
Southern California Chapter



ঢাকা হোম

স্বল্প ও দীর্ঘ মেয়াদে ফার্নিশড এপার্টমেন্ট ভাড়া
এবং ট্রান্সপার্টেশনের সুবিধা দিয়ে থাকি।

- আমরা বাংলাদেশে জমি, এপার্টমেন্ট ও ব্যবসা প্রতিষ্ঠান ক্রয়-বিক্রয়ে সহযোগিতা করি।
- ঢাকা শহরে প্রপার্টি ম্যানেজমেন্ট, মেইন্টেনেন্স ও ডেভেলপমেন্ট সুবিধা দিয়ে থাকি।
- আপনার বাড়ি, ব্যবসা প্রতিষ্ঠান ভাড়া দেওয়া, ভাড়া আদায় করার কাজে সহযোগিতা করি।



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AABEA NIGHT 2022

■ Program Schedule:

- **7:00 PM** Program Summary by MC Farisha Haque
- **7:05 PM** National Anthems (Bangladesh & USA)
- **7:10 PM** Cultural Part by Upama Shah
- **7:30 PM** Outgoing President Speech
- **7:40 PM** CEC President Speech
- **7:50 PM** Break Time
- **8:05 PM** Remembrance of Late professors of BUET
- **8:10 PM** Current President Speech & Cabinet introduction
- **8:20 PM** AABEA actions Documentary 2021/2022
- **8:30 PM** Guest of Honor speech- Consul General
- **8:35 PM** Guest of Honor speech- Mayor, City of Riverside
- **8:40 PM** Chief Guest speech- Dean of Engg. UCR
- **8:50 PM** AABEA Research Award Signing with UCR
- **9:00 PM** AABEA Award for Excellence Plaques by President
- **9:10 PM** Dinner
- **9:30 PM** Roshny Alam introduc Rizia Parvin Labony

AABEA NIGHT 2022

AABEA Southern California Chapter Luxor Banquet Hall,
Saturday may 14, 2022 7850 Beach Blvd, Buena park, CA - 90620

Chief Guest

Dean Christopher S. Lynch
William R. Johnson Jr. Family Chair Professor of Mechanical Engineering

Guest of Honor

Samia Anjum
Honorable Consul General of Bangladesh

Guest of Honor

Patricia Lock Dawson
Honorable Mayor, Riverside



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Message from **CHIEF GUEST**



Dean Christopher S. Lynch

William R. Johnson Jr. Family Chair Professor of Mechanical Engineering

The Marlan and Rosemary Bourns College of Engineering (BCOE) is a relatively young college on the rise. Our engineering student population grew by more than 30 percent in the past four years, with the fall 2021 cohort comprised of more than 4,500 students. Our faculty are internationally renowned and we serve many international students from around the globe. This year at Bourns College of Engineering, 40 students from Bangladesh are pursuing one of our engineering degree programs.

Last year, Dr. Md. Imdadul Hoque, Vice-Chancellor of Jagannath University, visited UC Riverside. Our team in the International Affairs program enjoyed a great conversation with him on potential collaborations between the two institutions. We have an active Bangladeshi Students Association (BSA) at UCR and earlier this spring, our team in UCR's Strategic Initiatives and International Recruitment, hosted at webinar with Education USA in Bangladesh on April 18. In the past couple of years, UCR invested more than \$1 billion into enhancing our campus infrastructure including new classroom building, student housing, and dining facilities. We are recognized as one of the top 20 best public global universities for engineering (US News Global Rankings 2023) and No. 1 for social mobility in the United States for three consecutive years (US News 2021-23).

At BCOE, we look at the challenges facing today's world through a wide lens, recognizing that varied perspectives are critical to defining the world we will live in five, 10, even 100 years from now. This broad vision guides our education and research philosophy - to build strong fundamental skills, to embrace teamwork with individuals from diverse backgrounds, and to design and implement solutions that address today's societal needs while anticipating and addressing the challenges we will face tomorrow.

Convergence in science and engineering brings together multiple disciplines to address the critical challenges that lie at disciplinary boundaries and beyond. We are enthusiastic about the opportunity to collaborate with AABEA and look forward to strengthening the network between AABEA and BCOE students and alumni in the future. We invite AABEA members to join us as we help make this world a better place for future generations.

As dean, it is my pleasure to welcome AABEA members to the BCOE family.

Message from **CONSULATE GENERAL**



Samia Anjum

Consul General, The People's Republic of Bangladesh
Los Angeles, California United States of America



As the world is gradually recovering from the onslaughts of the COVID19 pandemic and businesses are re-opening, I am delighted at the “in-person” holding of the AABEA Night. On this happy occasion, on behalf of the Consulate General of Bangladesh, I extend my warm greetings and felicitations to the organizers, participants and the members of the American Association of Bangladeshi Engineers & Architects (AABEA).

I would like to thank the Southern California Chapter of AABEA for launching ‘AABEA graduate research award endowed fund.’ Introduction of the scholarship programme is indeed an important initiative. The programme is being launched at a historic moment when the nation celebrated phenomenal events - the Birth centenary of the Father of our Nation Bangabandhu Sheikh Mujibur Rahman and the Golden Jubilee of our Independence. This year we are observing the 51st Anniversary of our independence.

Over the past 51 years, our journey as an independent nation has been a transformative one. From a war-ravaged country, Bangladesh has emerged as a “development miracle.” The country today is globally acclaimed for its pragmatic development strategies and practical policy interventions. Last year, the United Nations General Assembly unanimously adopted a resolution on Bangladesh’s graduation from the LDC category- a long-cherished aspiration of the entire nation. We are on track to become a developed country by 2041 and a prosperous Delta by 2100. Our GDP grew four times in the past decades. The “Digital Bangladesh” initiative of our Hon’ble Prime Minister is equipping the country to efficiently face the challenges of the 4IR era. The talented, hard-working professionals, engineers and architects of our country have been important partners of the country’s spectacular journey.

This year marks an important milestone as we are celebrating five decades of our partnership with the USA. During this past 50 years, the multifaceted relations between the two countries have been deepened and strengthened. The Non-Resident Bangladeshi professionals specially engineers and architects are active contributors to these ever-increasing relations. Through their ingenuity, dedication and hard work, they have demonstrated our nation’s capabilities and competence.

It is my ardent hope that our highly skilled professionals, engineers and architects residing in the USA, will continue investing their learning, experience and expertise towards the progress and development of the country and thereby, help to transform Bangladesh into a Sonar Bangla as dreamt by our Father of the Nation.

I assure AABEA all support from the Consulate General of Bangladesh.

I wish the event all the success.

Joy Bangla

May 14, 2022

Samia Anjum
Consul General

Message from **MAYOR OF RIVERSIDE CALIFORNIA**



City of Riverside, California
Office of the Mayor
PATRICIA LOCK DAWSON



April 29, 2022

Dear Esteemed Members of AaBea,

I was so happy to hear that the American Association of Bangladeshi Engineers and Architects has formed an agreement with the University of California, here in Riverside, to further the education of Bangladeshi students with a scholarship program. I applaud your connection to the Marlan and Rosemary Bourns College of Engineering, a premiere institution that will prepare Bangladeshi students for an outstanding future in the field.

Thank you for your foresight and your investment in a hi-tech vision for Bangladesh.

Most Sincerely

Patricia Lock Dawson

Mayor of Riverside

Message from **VICE CHANCELLOR OF RUET**



Prof. Dr. Md. Rafiqul Islam Sheikh

Vice Chancellor,
Rajshahi University of Engineering & Technology (RUET),
Rajshahi, Bangladesh. Email: vc@ruet.ac.bd

It's my pleasure to inform with joy that American Association of Bangladeshi Engineers & Architects (AABEA), Southern California Chapter has introduced scholarship program for the Engineering Students from Bangladesh at the Prestigious UC Riverside. It will not only allow the members of AABEA to mentor the students but I believe that senior leaders of this acclaimed organization shall encourage our students to acquire skilled professional knowledge to help contribute in the progress and development of Bangladesh toward VISION 2041 and SDG.

RUET always look forward to the new research and technology from all over the world. The USA is a country which prides itself as the forerunner of innovation for centuries. We hope AABEA can help bridge that communication between various Engineering Institutions of USA with that of Bangladesh.

I sincerely congratulate all the members of AABEA Southern California Chapter for this noble initiative and wish the success of signing ceremony of "AABEA Research Award Endowed Fund Agreement" at the AABEA program.

I wish a grand success of this prestigious event.



Prof. Dr. Md. Rafiqul Islam Sheikh

Vice Chancellor,
Rajshahi University of Engineering & Technology (RUET),
Rajshahi, Bangladesh. Email: vc@ruet.ac.bd

Message from **VICE CHANCELLOR OF USTC**



Professor Dr. Md. Jahangir Alam

B.Sc. Eng. (Civil Eng.), M. Eng. (Structural Eng.)

PhD (Civil Eng.), PG (Earthquake Engineering)

(Former Vice Chancellor of CUET)

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It fills my heart with joy that American Association of Bangladeshi Engineers & Architects (**AABEA**), Southern California Chapter has introduced scholarship program for the Engineering Students from Bangladesh at the Prestigious UC Riverside. It will not only allow the members of AABEA to mentor the students but I sincerely hope that senior leaders of this acclaimed organization shall encourage our students to acquire skilled professional knowledge to help contribute in the progress and development of Bangladesh toward VISION 2041.

We, in Bangladesh, always look forward to the new research and technology from the USA, a country which prides itself as the forerunner of innovation for centuries. We hope AABEA can help bridge that communication between various Engineering Institutions of USA with that of Bangladesh

I sincerely congratulate all the members of **AABEA Southern California Chapter** for this noble initiative and wish the success of signing ceremony of “**AABEA Research Award Endowed Fund Agreement**” at the **AABEA** Night Program.

Best wishes to all of you.

Prof Dr Engr Md Jahangir Alam Former Vc Cuet Vice Chancellor,
University of Science and Technology Chittagong (USTC) and
Chairman, CWASA Board

Message from **PRESIDENT, AABEA CEC**



Faisal Quader, PhD
President, AABEA CEC



Dear AABEA Southern California Chapter,

I like to congratulate you all - the American Association of Bangladeshi Engineers and Architects (AABEA), Southern California Chapter for hosting a grand Annual AABEA Night 2022 on May 14th, 2022, at Buena Park, CA. This is an outstanding initiative to gather AABEA members and families with a great networking opportunity. This great event is attended by the Dean of Marlan and Rosemary, Bourns College of Engineering, UCR as well as the honorable Consul General of Bangladesh and the honorable Mayor, City of Riverside. This sort of high caliber program proves that we Engineers not only build and innovate new things, but also cherish our rich cultural heritage and create opportunities for our new generations. Another remarkable initiative this chapter has undertaken is the Scholarship program for the Engineering students from Bangladesh. This program will tremendously boost and encourage our young Engineering community and students for a greater success in their Engineering career. Southern California Chapter and the executive leadership have been working tirelessly to make this AABEA Night a grand success. I wish AABEA and the Southern California Chapter the best and a magnificent success of this amazing arrangements.

Thanks and regards,

Faisal Quader, PhD
President, AABEA CEC

Message from **PRESIDENT**



Shahid Alam MSCE,PE
President, AABEA SOUTHERN CALIFORNIA CHAPTER



American Association of Bangladeshi Engineers & Architects (AABEA), a 38-year-old non-profit, non-political, and non-religious engineering & architectural professional organization focusing on educational, scientific, cultural, and charitable programs. All 12 chapters including Southern California Chapter's Cabinet members are volunteering to share ideas, advancements, job search assistance, seminars & educational programs, cooperating with other non-political, non-religious social organizations, collaborating with public bodies, and honoring/acknowledging outstanding contributors.

I, Shahid Alam, the 13th President of the AABEA Southern California Chapter. Since 1991, for the last three decades my predecessor presidents worked with their cabinets to bring this prestigious professional organization at this high level to serve fellow professionals and large Bangladeshi community. I had the opportunity to serve this chapter as General Secretary, CEC Representative, and president elect, however since the inauguration of our term from January 1, 2021, we faced the Pandemic of COVID 19 that barred all in person events to move forward. Our team immediately took part for Charity collaborating with South Asian Network (SAN) for Bangladeshi communities In Los Angeles. We had raised money through Facebook to purchase emergency needs for families and distributed door to door. Since the COVID continued for the majority part of 2021, we alternatively arranged virtual workshops for High School Students and Job search.

Our Hardworking team always finds innovative way to serve AABEA and take it to a higher level to reach mainstream including Universities in USA and Bangladesh, neighborhood councils, collaboration with other organizations including Bangladesh Unity Federation of Los Angeles (BUFLA), other ethnic Engineer Associations in southern California. I must feel proud that our team accomplished some millstone achievements including AABEA Research Award Endowment Fund with UCR, Job Search Engine to post and subscribe for jobs, and planned for Entrepreneurship Workshop to learn how to start a business.

However, as a President, I would like to open talk that AABEA is going through some challenges even after 30 years. And that is ABBEA had been acting introvertly. Our team has been working extrovertly talking steps to reach mass community members, regardless. We are working with an attitude that "Not what AABEA can do for us", rather "What we can do for AABEA". With a long dream of helping fellow professional, our forefather had founded this high-profile organization in 1994. Now the torch is in our hand to light up Engineers life and society by extending hands.

How can we recruit more members? How can we campaign specially in Bangladeshi Engineering universities before students coming to USA? Should we arrange yearly open house in BUET, KUET, CUET, RUET campus on behalf of AABEA to inform students who would be coming to USA for higher education? How can we make bridge between graduates directly from Bangladeshi Universities and USA graduate of Bangladeshi origin ? How can we collect fund as a non-profit organization from State & Federal government? Can AABEA offer training courses for members through AABEA University Virtually? How will Bangladesh government acknowledge AABEA? How AABEA can become one-stop service center for engineering students, educators, job seekers, corporate, business owners, recruiters and for the community as a whole? As a current president those all I have been brainstorming. I am looking forward to my successors who might think alike or better different to strengthen AABEA to fulfill the mission, and vision being established almost 4 decades ago.

Message from **FORMER PRESIDENT, SCC**



Jamshed Alam Hyder
Former President, AABEA Southern California Chapter



Honorable chief guest, distinguished guests, my fellow members of AABEA, friends and families, Assalamu Walaikum and Good Evening! I would like to welcome everyone to our AABEA Night. Thank you very much for giving me the opportunity to serve as your president during this past term.

These past years flew too quickly, and we have accomplished so much together since then. We have been able to host Inaugurations, family night and science fairs. I have good reason to express my heartfelt thanks to the officers, members, and friends of the organization. These accomplishments would not have been possible without the participation of active members such as everyone here tonight.

I want to congratulate our new 2021-2022 executive committee members for volunteering their services for AABEA. Thanks also to our fellow members and supporters of AABEA for the continuous support and participation in making AABEA such a great professional organization. Even though I am no longer president, I want everyone to know that they can also come to me or the former committee members with their questions and concerns.

AABEA has been an active organization since 1984, it now has over 2,000 members and multiple active chapters spanning the states from New York to California. AABEA is a non-profit organization dedicated to providing career guidance, networking opportunity, technical seminars, and professional development opportunities to all our current and future members in the field of Engineering, Architecture and Information Systems. We have been doing this for the past 38 years and hope to keep expanding this organization for many years to come.

I thank you again for the continuous support during my presidency. I have learned so much during this time. I know that AABEA will continue to thrive as a leading organization of networking for Bangladeshi Americans under the new committee.

Message from **GENERAL SECRETARY**



Rana Hassan Mahmud
General Secretary, AABEA SOUTHERN CALIFORNIA CHAPTER



Founded in 1991-92, AABEA Southern California chapter is one of the oldest organizations in our community. Founders had clear set of goals in mind - to engage with the community, to promote research and education, and to encourage charity.

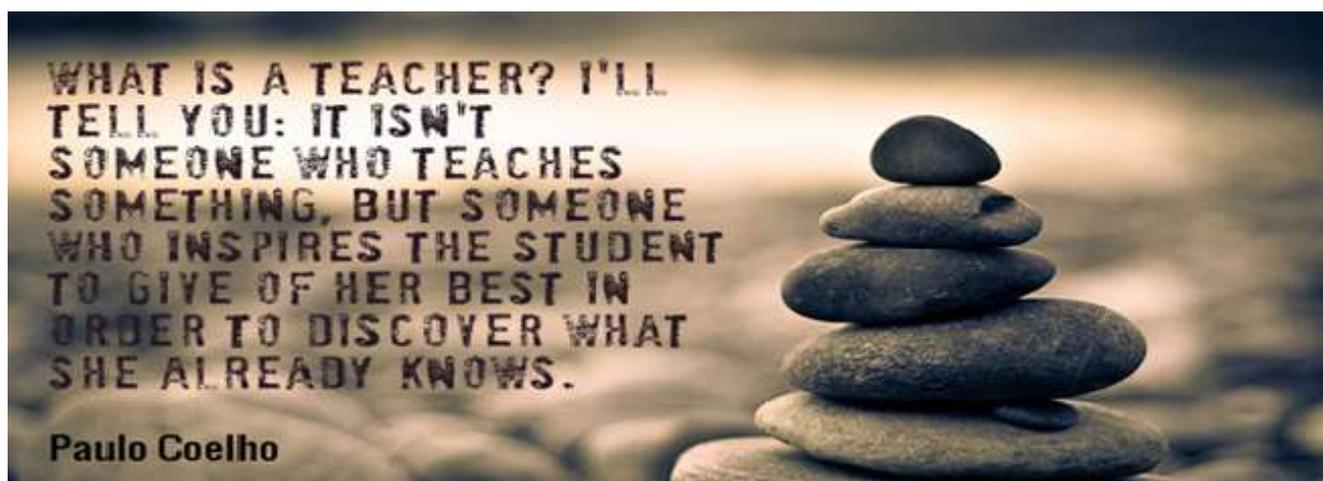
On the 30th year of establishment, AABEA prides itself as an organization that has been following strict dictates of its constitution. Amidst the outbreak of global epidemic, our new executive committee (EC) took the responsibility to carry on the constitutional duty of AABEA Southern California Chapter. When everything seemed bleak and uncertain, our committee treaded a new path and chartered a new destiny for AABEA. Within the first two months of our tenure, we reached out to those unfortunate Covid affected families who could not go out to even buy their daily essentials. We organized a student workshop, job search seminar, picnic and embarked upon a greater task of creating a data base of Bangladeshi origin educators in North America - all during the first year of our two-year term.

One of the hallmark achievements of our EC is to introduce award program for the Bangladeshi 'foreign students' at UC Riverside. This award program will not only allow AABEA access to the students from Bangladesh but will also create a greater understanding between UC Riverside and AABEA. This, we hope, will lead to a vigorous collaboration between UC Riverside and various engineering institutions in Bangladesh to promote shared research, student exchange and other creative long distance academic programs. Daring all odds, economy of Bangladesh is improving at an impressive pace under the leadership of Prime Minister Sheikh Hasina - daughter of the Founding Father Bangabandhu Sheikh Mujibur Rahman. Key to sustain this growth using the population dividend that Bangladesh enjoys now, is innovation. Innovation stems from research. For years there has been "brain drain" from countries like Bangladesh to the west. To envision a world that is more equitable, it is only fair to make knowledge and technology transfer from the west to the East- a reality.

We firmly believe, our small step towards creating an atmosphere of collaboration with prestigious institution like UC Riverside will make a giant step forward towards achieving the goal of sustainable development and prosperity of Bangladesh while Bangladeshi-American engineers are contributing enormously at various sectors in the USA. To encourage rebuilding of war-torn Europe, General John C Marshall once said, "like peace, prosperity is indivisible. To be sustained, it has to be shared." From now on, our small yet a vibrant community of engineers in the Southern California region will charter our programs towards sustainable development which will lead towards a lasting peace.

LIST OF BUET TEACHERS / ALUMNI WHO DIED DURING THE GLOBAL PANDEMIC CORONA VIRUS

Name	Date of death
National Professor Dr. Zamilur Reza Chowdhury, Dept. of Civil Engineering	April 28th, 2020
Professor Dr. A.S.O. Karne, Dept. of Metallurgy	---
Professor Dr. Faruq Ahmed, Dept. of Civil Engineering	---
Professor Dr. Alamgir Habib, Dept of Civil engineering	December 25th, 2020
Professor Dr. Zahurul Islam, Institute of Water & Flood Management	January 18th, 2021
Professor Dr. Tanvir Hasan, Dept. of Civil Engineering	February 27th, 2021
Professor Dr. Hossain Ali, Dept. of Civil Engineering	April 1st, 2021
Professor Dr. Taifur Ahmed Chowdhury, Dept. of Electrical Engineering	April 11th, 2021
Professor Dr. Syed Mahbubur Rahman, Dept. of Computer Science & Engineering	April 15th, 2021
Professor Dr. A.M.M Shafiullah, Dept. of Civil Engineering	April 24th, 2021
Professor Dr. Abdur Razzak Akand, Dept of Mechanical Engineering	May 2nd, 2021
Professor Dr. Kazi Mujibur Rahman, Dept. of Electrical Engineering	May 7th, 2021
Professor Dr. Abdul Matin, Dept. of Glass & Ceramics	August 30th, 2021
Professor Dr. Inamul Haque, Dept. of Chemistry	October 11th, 2021
Professor Dr. Shaheda Rahman, Dept. of Architecture	November 14th, 2021
Professor Dr. Umme Kulsum Navera, Dept. of Water Resources	December 23rd, 2021
Assistant Professor Abu Taher, Dept of Mechanical Engineering	January 13th, 2022
Associate Professor Dr. Sirajul Islam, Dept. of Chemical Engineering	March 8th, 2022
<i>And Many More Engineers in home and abroad.</i>	



DECEASED PROFESSORS AND ENGINEERS LIST

ক্র. নং	নাম	ক্র. নং	নাম
১.	প্রকৌশলী এস.এম. শরীয়াত উল্লাহ, পিইঞ্জ, এফ-৪১৭৬	৪৮.	প্রকৌশলী এ. এস. এম. ওমর হায়দার, এফ-৭৭১৯
২.	প্রকৌশলী মো. আনোয়ারুল আলম, এফ-৮৮৫	৪৯.	প্রকৌশলী মিজা মো. রাশেদ হোসাইন, এফ/৬৫৮০
৩.	প্রকৌশলী সিরাজুর রহমান, পিইঞ্জ., এফ/৩৭৪৫	৫০.	প্রকৌশলী আব্দুল্লাহ আল মাসুম
৪.	প্রকৌশলী মো. খাদেমুল ইসলাম, এফ-২৬৭৩	৫১.	প্রকৌশলী মো. খোরশেদ আলম
৫.	প্রকৌশলী মোহাম্মদ এমদাদুল হক, এফ-৯৯২	৫২.	প্রকৌশলী কাজী নজিবুল হক
৬.	প্রকৌশলী মো. মোস্তাফিজুর রহমান, এফ-৯৭৮৪	৫৩.	প্রকৌশলী মো. জাকারিয়া
৭.	প্রকৌশলী আবু ইকবাল মো. ইসহাক, এফ/১৫৫৫	৫৪.	প্রকৌশলী সাইদ রশিদুল হাসান
৮.	প্রকৌশলী নীধু চন্দ্র দাস, এম-৩৯৫৩	৫৫.	প্রকৌশলী মো. আব্দুল খালেক
৯.	প্রকৌশলী এ. এইচ. মাহমুদুর রহমান, এম/৪৩৭৯	৫৬.	প্রকৌশলী মো. সিরাজুল ইসলাম
১০.	প্রকৌশলী মো. আনোয়ার হোসেন, এফ-১০৬৬৯	৫৭.	প্রকৌশলী আব্দুল মালেক
১১.	প্রকৌশলী মো. সিরাজুল ইসলাম, এফ-৪২৪২	৫৮.	প্রকৌশলী নেফাউর রহমান
১২.	প্রকৌশলী বিশ্বজিৎ দে, এফ-৬৮১২	৫৯.	প্রকৌশলী ইসহাক আলী
১৩.	প্রকৌশলী মো. আব্দুল মোতালেব, এফ/৫২১৩	৬০.	প্রকৌশলী ফয়জুল ইসলাম
১৪.	প্রকৌশলী মো. ওমর ফয়েজ, এফ-১১৯৪০	৬১.	প্রকৌশলী এ.কে.এম. শাহজাহান পাটওয়ারী, এফ-১৯৩৮
১৫.	প্রকৌশলী তপন দাশ, এফ/২৯০১	৬২.	প্রকৌশলী সাইদুর রহমান
১৬.	প্রকৌশলী মো. ওয়াজেদ আলী খান, এএম/৫০৫৯	৬৩.	প্রকৌশলী আবু সাইদ
১৭.	প্রকৌশলী লুৎফর রহমান	৬৪.	প্রকৌশলী মো. আনোয়ারুল হক, এফ-১২৯৪৭
১৮.	প্রকৌশলী মো. ফজলুল হক, এফ-১৩৮৮	৬৫.	প্রকৌশলী গোলাম মওলা
১৯.	প্রকৌশলী মো. রিয়াজত আলী, এফ-১৭৫১	৬৬.	প্রকৌশলী সাইফ হাসনাত, এম/১৭৩২৫
২০.	প্রকৌশলী এ.কে.এম. এনায়েত উল্লাহ, এফ-১২৪৮	৬৭.	প্রকৌশলী এ.টি.এম. লুৎফর রহমান চৌধুরী, এফ-১১০৬
২১.	প্রকৌশলী এ.কে.এম. মোস্তাফিজুর রহমান, এফ-২১৬১	৬৮.	প্রকৌশলী মোমিনুল ইসলাম
২২.	প্রকৌশলী মোহাম্মদ নূরুল ইসলাম, এম-১৮৪৭৬	৬৯.	প্রকৌশলী আবুল হোসেন
২৩.	প্রকৌশলী এ. বি. এম. মোসলেহ উদ্দিন, এফ/৩৫৮৫	৭০.	অধ্যাপক ড. প্রকৌশলী মো. মূর্তজা আলী, এফ/৬৪২২
২৪.	প্রকৌশলী মো. মোশতাক হোসেন	৭১.	প্রকৌশলী সুব্রত কুমার হালদার, এফ/১২৪৭২
২৫.	প্রকৌশলী মো. গোলাম রাব্বানী	৭২.	প্রকৌশলী মো. সিরাজুল ইসলাম
২৬.	প্রকৌশলী সাইদুর রহমান	৭৩.	প্রকৌশলী মো. আব্দুল মতিন ভূইয়া, পিইঞ্জ., এফ/৩০৭৯
২৭.	প্রকৌশলী খুরশীদ আলী	৭৪.	প্রকৌশলী শেখ জাকির হোসেন, এফ/১৩১৪০
২৮.	প্রকৌশলী নূরুল ইসলাম	৭৫.	অধ্যাপক ড. প্রকৌশলী মো. মিজানুল হক, এফ-১৩১৮
২৯.	প্রকৌশলী আব্দুর রহমান	৭৬.	প্রকৌশলী সুফি মো. শোয়েব, এম/৬৯০৬
৩০.	প্রকৌশলী নাছিম আহমেদ, এফ/২৮৪৩	৭৭.	প্রকৌশলী সামছুল আলম শাহীন
৩১.	প্রকৌশলী সারওয়ার্দি ভূইয়া, এফ/৬৭১১	৭৮.	প্রকৌশলী ফয়েজুর রহমান
৩২.	প্রকৌশলী খালেদা শাহরিয়ার কবীর, এফ-১৫৪৯	৭৯.	অধ্যাপক ড. প্রকৌশলী মো. নজরুল ইসলাম, এফ/৩৬৫১
৩৩.	প্রকৌশলী এ. এস. নাজিমউদ্দিন আহমেদ, এফ-১৭৪৬	৮০.	অধ্যাপক ড. প্রকৌশলী মো. তৌফিক ইকবাল, এম/১৭০৮৯
৩৪.	প্রকৌশলী মো. আলতাফ হোসেন, এফ-৭৮৮৩	৮১.	প্রকৌশলী এমদাদ হোসেন
৩৫.	প্রকৌশলী মো. ইসমাঈল	৮২.	প্রকৌশলী সামছুল হুদা খান
৩৬.	প্রকৌশলী জহিরুল ইসলাম খান	৮৩.	প্রকৌশলী এ.এন. আতিক উল্লাহ, এফ/১৫৯৯
৩৭.	প্রকৌশলী মোহাম্মদ আলী আশরাফ, পিইঞ্জ., এফ-২১৩২	৮৪.	প্রকৌশলী মো. শফিকুল ইসলাম
৩৮.	প্রকৌশলী মো. নজরুল ইসলাম	৮৫.	প্রকৌশলী ফাহাদ হোসেন
৩৯.	প্রকৌশলী মো. আলমগীর	৮৬.	প্রকৌশলী টি.এ.এম. নূরুল বাশার, এফ/৬৬৫৪
৪০.	অধ্যাপক ড. প্রকৌশলী এ. এম. এম. সফিউল্লাহ, এফ-১৩১৯	৮৭.	অধ্যাপক ড. প্রকৌশলী মো. সেলিম হোসেন, এম/২৭৯২৫
৪১.	প্রকৌশলী এ. আর. এম. আনোয়ার হোসেন, এফ-১৯৬৭	৮৮.	প্রকৌশলী এস মুহিতুল আহমেদ রনি, এফ/১১৬৫২

EC TEAM 2021 / 2022

AABEA SOUTHERN CALIFORNIA CHAPTER



President: Shahid Alam, MSCE.PE

Mr. Shahid a longtime member of AABEA Family in southern California Chapter. Previously, he served as President Elect, General Secretary, and CEC Representative of AABEA. He also served as Delegate of Professional Engineer in California Government (PECG) in orange county section in 2019.



President Elect: Mohammed Mahibur Rais

Mr. Rais completed his Bachelor of Science in Civil Engineering in 1989 from BUET, Bangladesh. He has been working as a Senior Service Engineer in the Service Division of Thermo Fisher Scientific for last 21 years. His fields of specializations are Ion Chromatography and High-Performance Liquid Chromatography.



General Secretary: Rana H Mahmud, MSEE

Mr. Rana studied Electrical and Electronic Engineering at BUET, studied M.Sc in Electrical and Computer Engineering at UC Irvine. Worked at Astro Solutions Inc, Image Systems Inc, Canon Business Solutions, presently serving as Consultant to Texod Inc, Dallas and Charter Pacific Ltd., Hong Kong.



Treasurer: Mikayeel Khan

Mr. Mikayeel is a Software Engineer at Reformation Inc (Ref.).he is an accomplished coder and programmer. He enjoys using his skills to contribute to the exciting technological advances that happen every day at Ref. He is a Elected (2nd term) Pacoima Neighborhood Council Board Member and Land Use Committee Chairman in the City of Los Angeles4



Member: Abu Kazi Rubel

Mr Rubel Bachelor of CIS from Concordia University, Canada and Master's in Information Systems from Bridgewater State University, Massachusetts. Earlier, He completed Bachelor's and Master's degree from Dhaka University. He is a seasoned IT professional worked in many leading corporations including Scholastic, Havas, and Qualcomm. Currently, He is President of San Diego Bangladesh Association (GSBA).

EC TEAM 2021/2022

AABEA SOUTHERN CALIFORNIA CHAPTER



Member: Hasibul Sharif

Mr. Sharif's Undergraduate Degree is in Electrical Engineering from CA State University and Graduate Degree from CA State University. He Worked for Intel, Xircom. Currently he is a Franchise & Business Owner of 23 locations of 2 different national Fast-Food Restaurant brands in CA & NV. He has been a spokesperson for his QSR Brand to new Franchises and a Panelist in Multi Unit Franchising Conference in Las Vegas, NV for multiple years.



Member: Zebunnesa Tareque, MSCE, P.E

Mrs. Zebunnesa is a Professional Civil Engineer in the State of California is a life-time member of AABEA. She is a Senior Transportation Engineer in the California Department of Transportation (Caltrans). She completed B.Sc. in Civil Engineering from BUET and Master of Engineering in Integrated Water Resources Management from Asian Institute of Technology (AIT), Thailand.



Chapter Representative to CEC: Dr. Zainul Abedin

Mr. Zainul graduated B.Eng from Punjab Agricultural University, India. Later he attended Washington State University, University of Alberta, Memorial University of Newfoundland, He obtained Graduate and PhD in Civil Engineering from Kensington State University. The Bush Administration appointed him to the Regulatory Fairness Board of the US Small Business Administration.



Student Coordinator: Lamisha Sultana

Miss. Lamisha is studying Bachelor's in Computer Engineering at the California State University Fullerton. She has experience in IT as a Consultant, and she works with children to inspire them in STEAM. She possesses wide range of technical and engineering skills.

AABEA - CEC PRESIDENTS

Years of Term	Name
1993-1994	Dr. Hebab Quazi(Southern California)
1995-1996	Kem Mashiur Rahman, P.E(North Texas)
1997-1998	Dr. Sufian A. Khondker (Tri-State)
1999-2000	Mukhles R. Bhuiyan (Southern California)
2001-2002	Mohd. Ramjan Ali (Washington, DC)
2003-2004	Mohammad Ibrahim (Silicon Valley)
2005-2006	Mohammad A. Zaman (Rana)(Tri-State)
2007-2008	Kem Mashiur Rahman, P.E(North Texas)
2009-2010	Hares M. Sayed(Washington, DC)
2011-2012	Enamul Hoque(Arizona)
2013-2014	Dr. Nazmul Ula (Southern California)
2015-2016	Dr. Zakirul Haque(Michigan)
2017-2018	Dr. Sufian A. Khondker (New York)
2018-2020	Dr. Jahangir Dewan (Northern California)
2021-2022	Dr. Faisal Quader (Washington DC)

AABEA - SC PRESIDENTS

Years of Term	Name
1991-1992	Sheik Moinuddin (Ad Hoc)
1993-1994	Mukhles R. Bhuiyan
1995-1996	Dr. Zahidul H. Rahman
1997-1998	Jalil Khan
1999-2000	Asad Haque
2001-2002	Akbar H. Siddiqui
2003-2004	Dr. Rafiqul Islam Noorani
2005-2006	Syed Asfaq Huq
2007-2008	Dr. Nazmul Ula
2009-2010	Saleh Kibria
2011-2012	Nasim U. Gani
2013-2014	Mourshad Haider
2015-2016	Jabed Masud
2017-2018	Saiful Huq
2019-2020	Jamshed Alam Hyder
2021-2022	Shahid Alam

AABEA - SC PAST EXECUTIVE COMMITTEES

Term	President	President-Elect	General Secretary	Treasurer	Executive Members
1991-92 (Ad Hoc)	Sheik Moinuddin		Syed A. Huq	Syed Mujahid Hossain	Quazi Hashmi, Sayed Helal, Naushad Hossain, Masud Zahedi, Zakir Hossain, Saiful Islam
1993-94	Mukhles Bhuiyan	Saiful Islam	Syed A. Huq	Sheik Moinuddin	Zainul Abedin, Zakir Hossain
1995-96	Zahidul Rahman	Khaled Gazi	Mishaal Khalil	Mohammed K. Rahman	Geroge Mondol, Kaiser U. Ahmed
1997-98	Jalil Khan	Asad Haque	Munshi M. Mohsin, Kazi Fattah (Acting)	Tahmina Badruzzaman	K. Imteaz Uddin, Amin A. Hoque, Rana Haque (Acting)
1999-00	Asad Haque	Shirajul Karim	Mohammed Iqbal	Musa Mostafa	Abul Kalam, Saiful Huq
2001-02	Akbar Siddiqui	Halim Bhuiyan	Masud Zahedi	Shafiq Rahman	Haris Mahmud, Sabrina Akhtar
2003-04	Rafiqul Noorani	Mohammed Bakar	Nazmul Ula	Shafiq Rahman	H.K. Mohammed A. Chowdhury, Nasim U. Gani, Khwaja A. Rahman
2005-06	Syed A. Huq	Nazmul Ula	H.K. Mohammed A. Chowdhury	Shafiq Rahman	Khan Md Akram Hossain, Mohammad Monirul Islam, Saleh Kibria
2007-08	Nazmul Ula	Saleh M. Kibria	Mohammed Shamol	Shafiq Rahman	Shahdat Hossain (Pappu), Shah Reza
2009-10	Saleh M. Kibria	Nasim U. Gani	AKM Tareque	Shafiq Rahman	Jamshed Hyder, Md. Shafiqul Alam
2011-12	Nasim U. Gani	Mourshad Haider	Mainul Khan	Shafiq Rahman	Shafayat Dewan, MD Bhuiyan, Bakhtiar Billah
2013-14	Mourshad Haide	Jabed Masud	Ahammad Akbar khan	Mahmuda Akhter	Azmal Khan, Sadique Hossain
2015-16	Jabed Masud	Saiful Huq	Shahid Alam	Mokbul Chowdhury	Enamul Haque (Pilu), Ashraful Alam
2017-18	Saiful Huq	Jamshed Alam Hyder	Farhana Haque	Khondokar Karim	Sharmin Shahriar, Sohel Uddin Ahmed, Mohammed M ahibur Rais, Arif Iftekhar, Nabil Haque, Zafar Ahmed, MD Rohul Amin Bhuiyan
2019-20	Jamshed Alam Hyder	Shahid Alam	Iqbal Rahman	Farzana Huda	Md Musa, Mohammed Sarwar Jahan, Mohammad Husain

OUR PAST ACTIVITIES

CHARITY

a) COVID-19



b) Eid-2021 Clothes Distribution to children in Kumarkhali, Kushtia



OUR PAST ACTIVITIES

PICNIC



PAST ACTIVITY FLYERS



AABEA SOUTHERN CALIFORNIA CHAPTER

BE AN ENGINEER, BUILD THE WORLD!

VIRTUAL WORKSHOP FOR HIGH SCHOOL STUDENTS
21ST MARCH @ 7 PM
 RSVP: General.Secretary@aabeascc.org
 Contact: Shahid Alam. 562-964-1179
 Rana H. Mahmud. 714-718-1895
 Zebunnesa Tareque. 714-398-1857
 Website: www.aabeascc.org
Zoom Meeting ID & password: 620 717 8585. T5gnuB




AABEA Members Entrance Fee: \$25/person
Children upto 6 years FREE

Picnic 2021

Food, Fun, Games & Prizes

Yorba Linda Regional Park
7600 E La Palma Ave, Anaheim, CA 92807
Shelter No. 5, (K Lot. After entrance make a left and drive towards the end)

Sunday, October 31st, 11 AM - 5 PM

RSVP:
 Shahid Alam (562) 964-1179
 Rana Mahmud (714) 718-1895
 Mohammad Rais (818) 359-0618
 Abu Kazi Rubel (978) 790-6130
 Hasibul Sharif (714) 717-5542
 Mikayeel Khan (925) 577-6351




Career Workshop For Engineers and Architects

Date: Sunday August 8th, 2021,
 at 8 PM (Pacific Standard Time)

Join through Zoom
 Meeting ID: 620 717 8585
 Password: T5gnuB

HOW TO APPLY FOR JOBS IN:

- Federal
- State
- City
- Private Corporations (Facebook, Intel, Qualcomm, etc.)

Distinguished Speakers:

1. **Dr. Nilufa Rahim**, Patent Examiner, US Patent & Trademark office, Alexandria, VA
2. **Mr. Shafiqul Islam**, Supervising Transportation Engineer, Division of Operation, Caltrans District 7
3. **Sam Mannan**, Electrical Service Manager, Los Angeles Department of Water and Power
4. **Nilufar Begum**, Graphics Software Engineer, Intel Corporation, Folsom, CA
5. **Mohammad H Rashid**, Sr. Director-Program Management, Qualcomm Technology INC, San Diego, CA

RSVP:
 Shahid Alam (562) 964-1179
 Rana H. Mahmud (714) 718-1895
 Mikayeel Khan (925) 577-6351

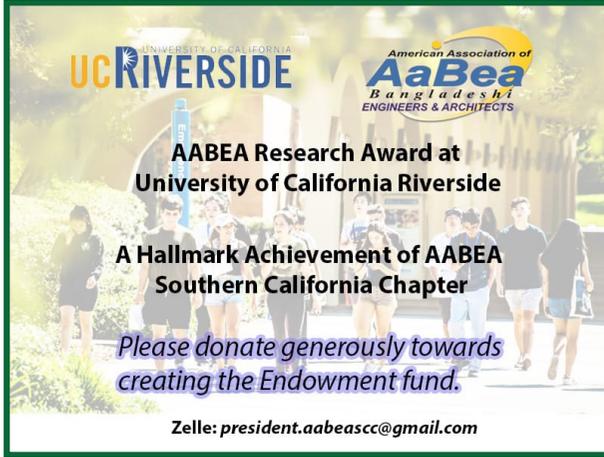
Moderator: Zebunnesa Tareque
 Senior Transportation Engineer,
 California Department of Transportation

Hosted by: AABEA 2021/2022 Cabinet (www.aabeascc.org)




ফাগুন শুভেচ্ছা

PAST ACTIVITY FLYERS



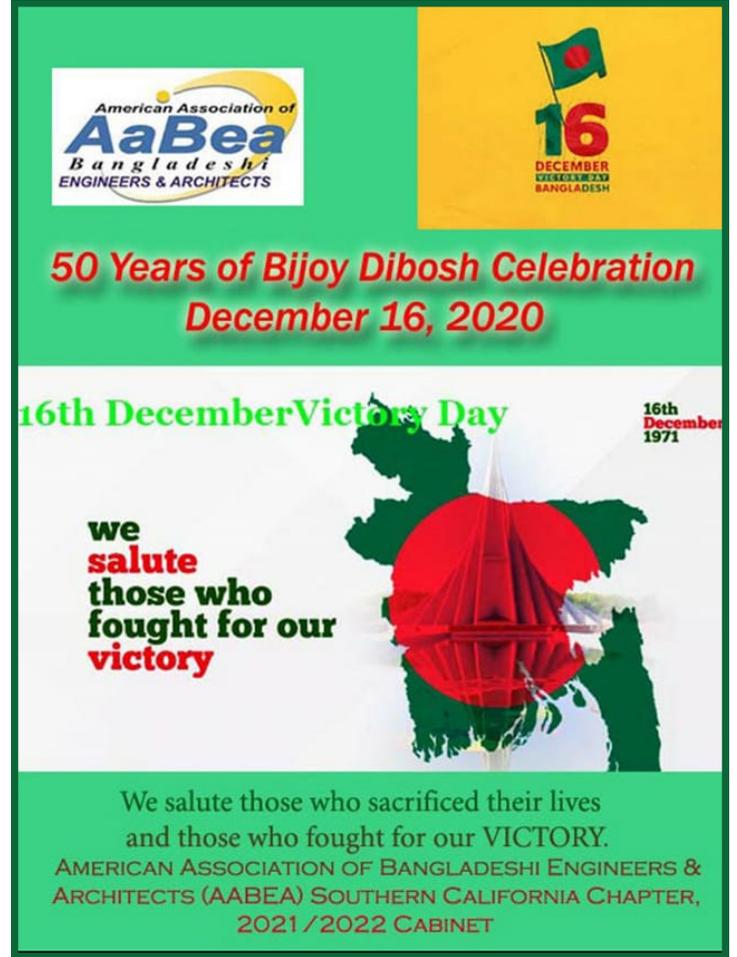
UC RIVERSIDE American Association of **AaBea** *Bangladeshi* ENGINEERS & ARCHITECTS

AABEA Research Award at University of California Riverside

A Hallmark Achievement of AABEA Southern California Chapter

Please donate generously towards creating the Endowment fund.

Zelle: president.aabeasc@gmail.com



American Association of **AaBea** *Bangladeshi* ENGINEERS & ARCHITECTS

16 DECEMBER 1971-2021 BANGLADESH

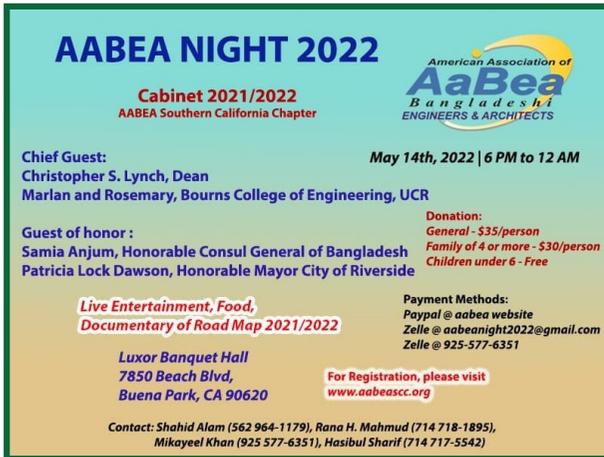
50 Years of Bijoy Dibosh Celebration
December 16, 2020

16th December Victory Day 16th December 1971

we salute those who fought for our victory

We salute those who sacrificed their lives and those who fought for our VICTORY.

AMERICAN ASSOCIATION OF BANGLADESHI ENGINEERS & ARCHITECTS (AABEA) SOUTHERN CALIFORNIA CHAPTER, 2021/2022 CABINET



AABEA NIGHT 2022 American Association of **AaBea** *Bangladeshi* ENGINEERS & ARCHITECTS

Cabinet 2021/2022
AABEA Southern California Chapter

Chief Guest: May 14th, 2022 | 6 PM to 12 AM
Christopher S. Lynch, Dean
Marlan and Rosemary, Bourns College of Engineering, UCR

Guest of honor:
Samia Anjum, Honorable Consul General of Bangladesh
Patricia Lock Dawson, Honorable Mayor City of Riverside

Donation:
General - \$35/person
Family of 4 or more - \$30/person
Children under 6 - Free

Live Entertainment, Food,
Documentary of Road Map 2021/2022

Payment Methods:
Paypal @ aabea website
Zelle @ aabeanight2022@gmail.com
Zelle @ 925-577-6351

Luxor Banquet Hall
7850 Beach Blvd,
Buena Park, CA 90620

For Registration, please visit
www.aabeasc.org

Contact: Shahid Alam (562 964-1179), Rana H. Mahmud (714 718-1895), Mikayael Khan (925 577-6351), Hasibul Sharif (714 717-5542)



American Association of **AaBea** *Bangladeshi* ENGINEERS & ARCHITECTS

ঈদ মোবারক

শিশুদের ঈদ উপহার
ও শুভেচ্ছা-২০২১
কুমারখালী, কুষ্টিয়া।

সৌজন্যে :

আমেরিকান এসোসিয়েশন অব বাংলাদেশী ইঞ্জিনিয়ারস এন্ড আর্কিটেক্ট
স্যাদার্ন ক্যালিফোর্নিয়া, ইউ.এস.এ। www.aabea.org



AABEA RESEARCH AWARD ENDOWED FUND

Jed Schwendiman Assistant Dean for Development UC Riverside

The American Association of Bangladeshi Engineers and Architects (“AABEA”), Southern California Chapter (“Donor”) wishes to establish an endowed research award fund with the U.C. Riverside Foundation, a California nonprofit public benefit corporation, with the conditions and purposes contained in this document, cash or marketable securities having a fair market value on the dates of the gifts in the aggregate amount of \$15,000 (“Gift Funds”) to establish the AABEA Research Award Endowed Fund (“Fund”). In addition, the Donor pledges \$15,000 for current-use support to provide scholarships in Fiscal Years 2022 through 2026. BACKGROUND The American Association of Bangladeshi Engineers and Architects is a non-profit, non-political, and non religious voluntary engineering and architectural professional organization organized exclusively for educational, scientific, cultural, and charitable programs. The aims and objectives of the AABEA are:

- To bring together and share ideas, technology, and experiences between engineering and architectural professionals of Bangladesh and North America.
- To work towards the advancement of engineering and architectural professions in Bangladesh.

- To work towards the advancement of engineering and architectural professions of Bangladeshis in North America.
- To provide assistance in job search and career enhancement for its members and affiliates.
- To conduct seminars and other educational programs.
- To provide mutual assistance and cooperation between AABEA and other non-political associations/societies and institutions.
- To help develop feasibility studies of various engineering and technological concerns of Bangladesh.
- To collaborate with public bodies and with other societies for the benefit of the engineering and architectural professions as a whole.
- To honor any individual/Group who has made significant and outstanding contributions to the profession of Engineering, Architecture and Computer Science.
- To further the mission, the Southern California Chapter of the American Association of Bangladeshi Engineers and Architects wishes to establish a research award in support of

undergraduate or graduate students who lived in Bangladesh at UC Riverside's Marlan and Rosemary Bourns College of Engineering.

I. ESTABLISHMENT OF FUND

- This Fund shall be deemed established when:
 - This Memorandum has been reviewed, signed, and dated by the Donor and an appropriate University official; and,
 - Funds have been received and deposited for the purpose cited herein.
- ### II. PURPOSE AND USE OF FUND
- General Purpose: This Fund shall be used to provide support for students who have lived in Bangladesh and who are pursuing either undergraduate or graduate degrees at the Marlan and Rosemary Bourns College of Engineering.
 - Criteria and Selection Process: Students will be selected by the Dean of the Marlan and Rosemary Bourns College of Engineering, or the Dean's designee with input from appropriate faculty, each year based on the following required criteria:
 - full-time student at the University of California, Riverside.
 - pursuing an undergraduate or graduate degree in engineering at the Marlan and Rosemary Bourns College of Engineering. lived in Bangladesh for a minimum of five years and demonstrated excellence in research and/or academic achievement, minimum grade point average of 3.0 for graduate students and 3.5 for undergraduate students
 - In years when there is no candidate who meets the criteria, awards will be held until the following year.
 - The establishment and administration of the Endowment will comply with current policies of the U.C. Riverside Foundation. Although the Endowment is intended to exist in perpetuity, unforeseen circumstances may alter or remove the subject area from the campus academic plan. In such an event, the Chancellor is authorized to redesignate the purpose of this Endowment, as s/he determines to be consistent with Donor's interests and intentions, in consultation with the relevant unit Dean, Vice Chancellor or Provost or other relevant organizational leader.

ADMINISTRATION OF FUND

- Funding
- Donor pledges irrevocably a gift of \$30,000. This pledge is to be fulfilled within a five year period according to the following schedule: a) Pledge payment of \$3,500 (\$3,000 current-use, \$500 endowed) by June 1, 2022 b) Pledge payment of \$4,500 (\$3,000 current-use, \$1,500 endowed) by June 1, 2023 c) Pledge payment of \$5,000 (\$3,000 current-use, \$2,000 endowed) by June 1, 2024 d) Pledge payment of \$7,000 (\$3,000 current-use, \$4,000 endowed) by June 1, 2025 e) Pledge payment of \$10,000 (\$3,000 current-use, \$7,000 endowed) by June 1, 2026
- The entire unpaid balance may be paid in full at any time. Donor understands that the University will send reminder notices in accordance with this schedule.

- Additions to the Fund can be made at any time with no early payment penalty. Following completion of this pledge, Donor intends to make another 5-year pledge to continue the annual research award and complete the minimum requirement for an endowed fund. Donor plans to grow the Fund to a minimum of \$66,700 to provide an annual payout of at least \$3,000.
 - Note: Provision is hereby made to treat the Fund as a current restricted fund if minimum funding levels to establish an endowment are not achieved by June 1, 2031.
 - Disbursement of Funds: The Financial Aid Office will disburse the awards to undergraduate students. The Graduate Division will disburse awards to graduate students. Two or more scholarships may be awarded each year.
 - The Fund's expendable distribution will be determined periodically under the Endowment Expenditure Policy established by the U.C. Riverside Foundation. AABEA Night,
 - Total return earned by the Fund in excess of the amount approved for distribution shall be retained in the Fund principal to protect the Fund from the effects of inflation and to allow for growth. Any unexpended distribution from the previous year may be combined with that of the current year for spending purposes or added to the Fund principal.
 - Upon endowment, the principal of this Fund may be combined with other funds for investment purposes.
 - Fiduciary Responsibility: Responsibility for governance and investment of all U. C. Riverside Foundation funds is vested in the U.C. Riverside Foundation's Board of Trustees.
- ### Administrative and Gift Service Fees:
- As is customary with universities and other non-profit organizations across the country, a one-time gift fee is applied to each pledge payment (gift) in order to provide essential support to UCR's advancement program. Donor understands that the fee is currently 5%. In addition, administrative fees will be charged in accordance with UCR policy.

IV. STEWARDSHIP

An endowed fund is testament to the value the Donor places on intellectual and scientific achievement. Donor will receive periodic stewardship reports from the University on the Fund. The Donor agrees that this Fund and its name may be used in university communications. All gifts to support UC Riverside accord with the University's foundational value of academic freedom, which is essential to its research and teaching mission. Any individuals are performing work from home since last couple of years. They do not need to commute daily to the work as their job duties are tied to flexible workstations at home. This became a most common phenomenon since March 19, 2020, after Gov. Gavin Newsom issued an emergency statewide stay-at-home order to protect public health and slow the spread of COVID-19 in California. As a result, many California residents began working from home, leading to unprecedented changes to California's transportation system and traffic patterns.



PRACTICAL FUTURE OF SPACE PROGRAMS IN BANGLADESH

By Nazmul Ula, Ph.D

Bangladesh achieved a milestone last year by launching its own satellite. Bangabandhu-1 is a giant step for the space program of Bangladesh. To be competitive in the long-term space program arena, Bangladesh must establish its own space program locally. Bangabandhu-1 was designed and launched by third party foreign entities. Space programs are in general a very expensive and time-consuming endeavor. Each satellite takes years to plan, design, and build, costing hundreds of millions of US Dollars. Establishing a full-scale space program will take years for Bangladesh. Whenever we start our space program, it will take 20 to 30 years to mature. Therefore, we should start our program now to ensure we will be competitive as soon as possible.

Bangladesh needs access to real-time geospatial data for efficient planning of flood control, traffic management and agricultural strategy. Only owning our own data collection satellites will provide us with meaningful data that can be put to effective use. The question is: do we have the resources and the skilled manpower to develop a full-scale space program at this time? The

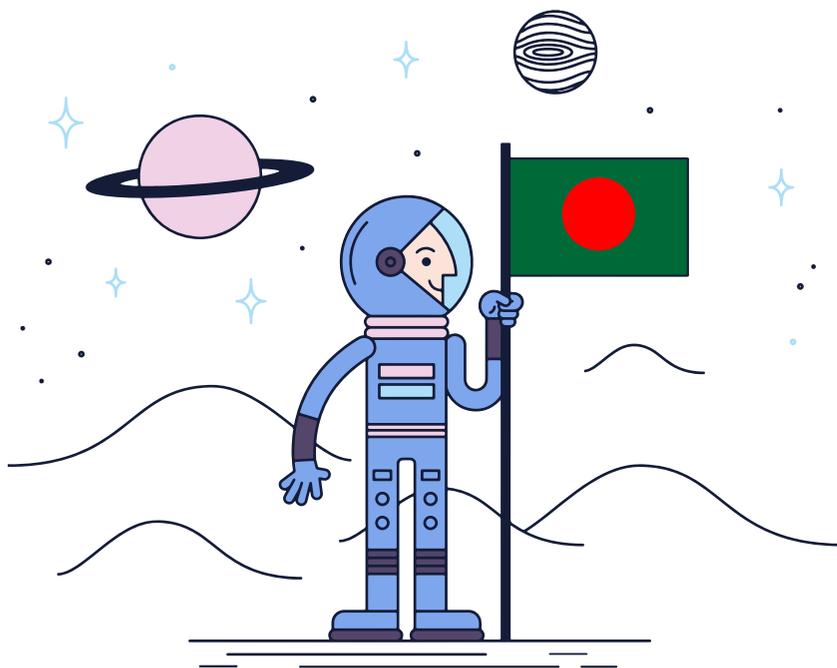
simple answer is no. Then the question arises, do we really need to start a “full-scale” space program now to have a viable space program in 20 to 30 years? Are there any alternative options? The answerer is yes. We do not need to start an expensive full-scale space program at this time. What we can do is start our program with very affordable “Picosatellite” projects that will develop skilled space program manpower and give us experience in designing, manufacturing, managing and controlling space satellites. One of the best picosatellite programs is NASA’s CubeSat Program.

A typical picosatellite has a mass of 100gm to 1kg, generally resides in Low Earth Orbit (LEO) at an altitude of 200 to 400km above Earth’s surface, and has a lifetime of few weeks to a couple of years. The total cost of developing such a satellite is between \$100,000 and \$2,000,000. The design and manufacture of these satellites can easily be done in Bangladesh using local manpower. The launching of these satellites can range from free to \$30,000.

This proposal will show how we can establish a CubeSat program in Bangladesh, which will develop skilled manpower in space technology and provide aerospace research opportunities to our engineers and scientists.

Rationale:

Bangladesh currently has a number of challenges related to loss of property, crop, and productivity due to regular flooding, as well as loss of productivity due to traffic jams, especially with the unpredictability of inter-city transportations for export-oriented products. To mitigate these types of challenges, the country needs near-real-time geospatial data that can only be acquired through satellites. At present, Bangladesh relies on foreign satellites for such data and the data could potentially be outdated by the time it becomes available. Moreover, these data are very expensive because we have to pay a third party for them. For single use data sets, paying a third party is cheaper. But here we are talking about continuous feed of real-time data, which could become quite expensive very quickly. On the other hand, having our own satellite will eliminate this perpetual expense. Modern society is data driven; relying on other countries for vital national data can



impede efficient planning at the national level. Comprehensive real-time geospatial data will allow Bangladesh to improve agricultural planning, prepare for incoming floods and improve traffic flow. As most of Bangladesh has low elevation, rising sea level due to global warming is going to adversely affect a large area of the country. It is imperative that we prepare ourselves to handle the effect of rising sea level before it is too late. This requires extensive monitoring of our low-lying areas along with the rise of sea level using satellite imagery. With modern data analytics, accurate sets of data can also boost productivity multi-fold.

Traditionally, space programs were associated with national defense only. But in the last couple of decades, the paradigm has shifted towards commercialization of space technologies, and the use of space technologies in everyday applications is growing exponentially. There is a huge market for space technologies and the demand for space technology savvy STEM workforce is growing.

Bangladesh has come a long way in the past 47 years, progressing from being one of the Least Developed Countries to a developing country. There is always a debate regarding the viability of space programs for countries with high population and poverty rates - namely, whether a space program could be viewed as an inappropriate use of resources when other pressing needs of the citizens are not met. On the other hand, a number of densely populated countries facing similar challenges have shown tremendous success in their own space programs along with tackling their basic challenges.

The geostationary communication satellite Bangabandhu-1 was launched on Friday, May 11, 2018 from the Kennedy Space

Center on a SpaceX Falcon 9 rocket. This is a major milestone for Bangladesh. The expected lifetime of this satellite is about 15 years.

Large satellites with usable life expectancies of more than 10 years have both advantages and drawbacks. The advantages are the longevity and the ability to host multiple projects on the same satellite. But with fast-moving modern technological advances, long-life satellites become obsolete rapidly. As these satellites have very limited upgrade capabilities, once deployed in orbit, they are stuck with whatever technology they were built with. Also, as larger satellites take years to build, by the time a satellite is deployed, better advanced technologies have become available. Therefore, it may be more cost effective to deploy an array of smaller, cheaper satellites. The upgrades to assimilate the latest features will require replacement of only one or two members of the array at a much cheaper cost.

While it is true that space programs are expensive and time consuming, we cannot wait to start a space program until all our other pressing needs are met. The reason that we need to start our space program now is the fact that a wellthought out national space program will expedite the innovation and growth of the country. Space programs can play a vital role in kick-starting innovative programs to address many of the challenges facing our country, such as the rising sea level, annual flooding, irrigation inadequacies, traffic jams, shipment tracking, to name a few. Just improving inter-city transportation will save thousands of man-hours per day. Near-real-time satellite images will allow us to improve the efficiency of our inter-city transportation. A well-planned network of small satellites will enable us to build a data-driven national infrastructure to spur faster economic growth.

The declining costs of smaller satellites along with new applications and innovations in recent years have made the implementation of space technology attainable for many smaller nations. In the past, the capital-intensive nature of space projects would have been considered wasteful for developing countries. Assimilating space technology has the potential to accelerate the attainment of national development goals and further indicates a visionary and technology-savvy society.

Of the many vital uses of such programs, using satellites to acquire geospatial information and data is near the top of the list. The lack of real-time data in developing countries impedes development, but owning their own satellites will provide those countries with more timely and accurate information to help with public health, early-warning systems, disaster management, and agribusiness decisionmaking and reduce the need to buy data from third parties.

FIRST-EVER CABLE-STAYED BRIDGE IN BANGLADESH



Abu Syed Md. Israil, Ph.D., P.E.

An experienced civil/structural engineer with over 30 years of experience in managing, leading and designing various infrastructure projects including tunnels, bridges, airports, harbors, off-shore structures, oil and gas, and various United States DoE and DoD facilities. He worked on projects throughout the United States and overseas including China, Saudi Arabia, Greece, Mexico and Peru to name a few. He was the Principal Technical Director at Parsons Corporation and was accorded Parsons' "Engineer of the Year" award. Currently he is serving in advisory role on a number of mega projects in Bangladesh. Dr. Israil graduated from BUET in 1982 majoring in Civil Engineering, and obtained his M.S. and Ph.D. degrees from the State University of New York at Buffalo in 1986 and 1990 respectively.

Introduction

Bangladesh's first cable-stayed bridge is being constructed over the Shitalakshya River in Narayanganj. The Shitalakshya River divides the Narayanganj City Corporation (NCC) into

two parts – the Sadar Upazila on the western side and the Bandar Upazila on the east. Currently, riverine route is the sole mode of transportation for direct commute between the two Upazilas. The NCC has envisioned an iconic bridge to connect the two regions. Figure 1 below depicts a general map of the NCC area and proposed location of the bridge.

The Local Government Engineering Department (LGED) of the Gov. of Bangladesh is tasked with implementation of the bridge with technical expertise from foreign consultants. The project is being funded by Bangladesh's own internal resources.

Bridge Description:

A general layout of the bridge is shown in Figure 2. The project is composed of a Main Bridge, which is a cable-stayed bridge

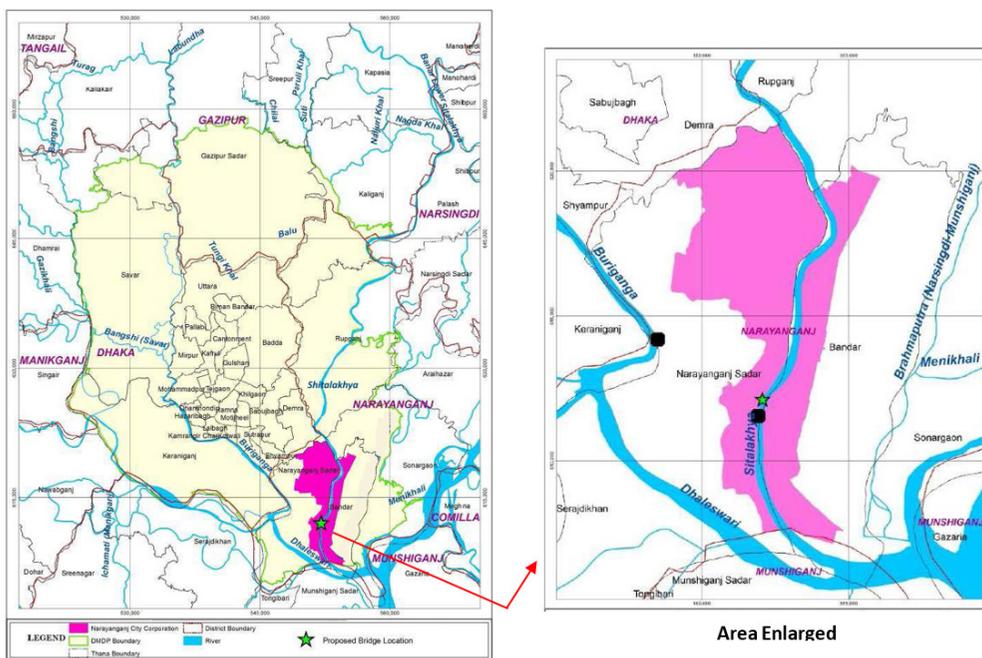


Figure 1: Narayanganj City Corporation (the pink area) and Proposed Bridge Location



Figure 2: General Layout of the Bridge (Aerial View)

spanning the Shitalakshya River and connected to approach viaducts on each side. The main bridge has 3 spans – the center span is 220-meters (720-feet) with 80-meter (260-feet) side spans on each side. The bridge is supported by cables fanning out from two tall pylons. Bottom part of the pylons are made of reinforced concrete with the above deck portions being steel frames. The pylons rise 50-meter (160-feet) above the bridge deck. The carriageway is composed of concrete slabs supported on steel girders. Together they act as a composite system:

Here is an elevation view of the bridge (Figure 3).

The critical challenge is to provide a vertical navigational clearance of 18.3-meter (60-feet) above the standard high water level (SHWL), as required by the Bangladesh Inland Water Transport Authority (BIWTA). The width of the Shitalakshya Bridge at the site is the narrowest, and together with the high navigational clearance requirement made the alignment very challenging while keeping the approach slopes within comfortable range for both motorized and non-motorized traffic.

Once constructed, this bridge will provide an iconic symbol for this historic city and a new addition to the modern mega projects in Bangladesh.

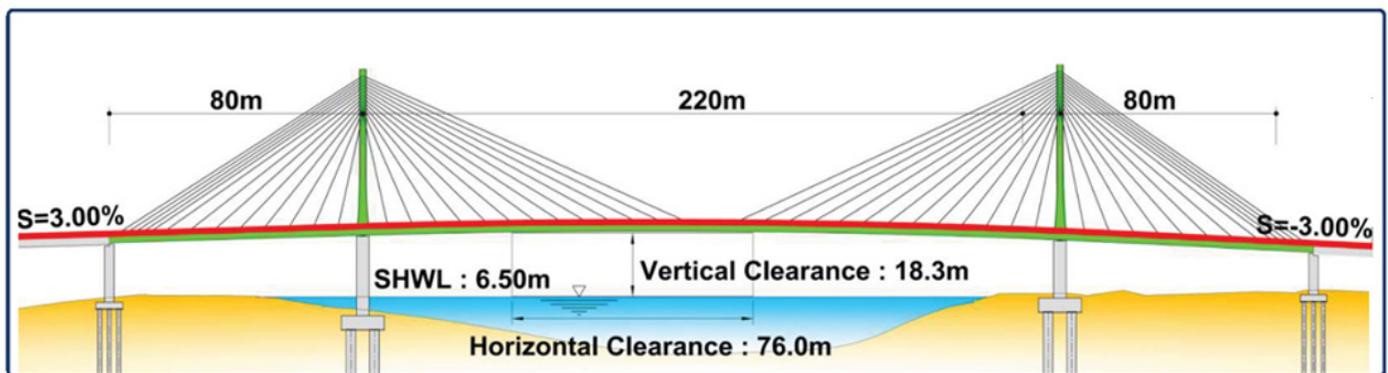


Figure 3: Bridge Elevation View

THE FEDERAL RESERVE

DR. RUMI SOLAIMAN

The Federal Reserve is the most powerful economic institution and across the globe. This institution enjoys a differentiated public/private structure that serves within the government but is relatively independent of the government. This separation helps isolate the Federal Reserve from political pressures and allows it to fulfill its duties. This institution offers banking services, international cooperation and economic research and analysis to achieve specific global objectives. The Federal Reserve systems is an example of a central banking system that impacts banking and monetary affairs.

According to Needler & Podleski (2021), the Federal Reserve Act of 1913, established a central banking system with a central governing board and other multiple reserve banks in a decentralized operating structure. The structure comprises components that jointly work and facilitate the Fed's activities. Notably, it has three main bodies of Governors' Board, Banks and Open Market Committee for the Federal Reserve.

The Federal Reserve systems not only serve the US national interests but it extend to the global boundaries. The Fed has existed for the past century and has accumulated a vast experience in the financial sector. The experience of the functionality of the Fed has impacted other Central Banks, including the European Central Bank (ECB). According to Orphanides (2013), the European Central Bank's structure displays characteristics drawn explicitly from the Federal Reserve's structure. Its setup also borrows from the Federal Republic of Germany's Central Bank, with Bundesbank initially influenced by the Fed, Therefore, the Fed serves as a source of experience for many Central Banks around the globe.

The Federal Reserve has a dual mandate, and it assigns comparable significance to maximum employment. According to Orphanides (2013), it explicitly promotes full employment goals, price stability and controlling interest rates in the long run. In reference to the inflation and disinflation between the 1960s and 1980 in several developed economies, the European Central Bank (ECB) had the primary mandate to define price stability (Mohanty, 2010). However, The Federal Reserve had a dual mandate to enhance price stability, promote employment goals and still act to moderate interest rates. Therefore, The Federal Reserve plays a huge role in global central banking by undertaking several responsibilities rather than concentrating

on a single mandate.

Federal Reserve plays a significant role in providing financial services, it plays a pivotal role in operating the national payment systems, depository institutions such as banks, the US government and the international banking institutions. The Federal Reserve would coordinate significant national transactions between the US and other foreign institutions (Broz, 2018). With its central authority and position, it eliminates potential money laundering activities worldwide. As a consequence, The Federal Reserve offer financial services and promotes global financial safety by safeguarding the interests of governments and financial entities.

As the United States' Central Bank, Federal Reserve is the financial authority behind the world's largest free-market economy. According to CFI (2022), the United States has a high magnitude of influence on the global economy. As a result, The Federal Reserve stands as one of the most influential financial institutions around the globe. It plays a role in handling the monetary policies of the US government independently and with no legislative intervention. Additionally, it undertakes other Central Bank functions of regulating banking activities and performs a survey about the United States and the global economy (CFI, 2022). As a consequence, its monetary policies and decisions affect the economic decisions in the global central banking, therefore maintaining the global financial stability.

The Federal Reserve joins other Central Banks across the world in promoting and protecting the financial rights of consumers. Consumer rights are an essential part of the financial services sector. The Federal Reserve ensure that all consumers are protected and access equity based on these rights (Jagtiani & John, 2018). As a result, The Federal Reserve is involved with policy formulation to ensure that it regulates the banking sector within national and across the globe. The Federal Reserve offers investment services to global institutions, which is solely meant to aid with their funds and management of liquidity. Such primary investment services include; the pooled global overnight reverse repurchase agreement and the sale or purchase of the US government securities. Furthermore, the Federal Reserve runs a standing repurchase agreement facility for global and international monetary authorities known as

the “FIMA repo facility” (Choi, Goldberg, Lerman & Ravazzolo, 2021). The facility is essential and complements the Central Bank dollar swaps in assisting in relieving global dollar funding markets. Therefore, through this facility, The Federal Reserve allows the international Central Banks to temporarily exchange their assets of US securities for US currency, therefore easing any strains in markets.

The Federal Reserve promotes the financial system stability in the United States and abroad. It engages in financial in financial system monitoring to certain risks and then participates at home and overseas to ensure the systems support a healthy economy for businesses, households and communities (Ghosh, 2017). The monitoring involves the supervision of individual banks and financial institutions to ensure that they do not take excessive risks and run in a prudent, safe, sound manner. Central Banks worldwide have also imitated this aspect or practice in running their countries banking affairs. Therefore, The Federal Reserve stands as a reference point in the global central banking system, allowing other Central Banks to engage in financial stability practices. The Fed serves as a financier of the last recourse. It has staged its lending activities to the global and international Central Banks as a lender. For instance, The Federal Reserve has added dollar-lending programs to

complement its other tools to lend to other European, Mexican, Australian, Japanese and other countries’ Central Banks to make sure that marketplaces do not end up without cash resources (Timiraos, 2020). Therefore, The Federal Reserve supports the global central banking system to ensure liquidity in markets by lending to international Central Banks.

As created by the Federal Reserve Act of 1913, the existence of the Fed has played a significant function in the central banking system. The Federal Reserve has shaped many Central Banks worldwide in terms of system set-up, experience, and serving national interests. Fed’s contribution has strengthen many Central Banks to preserve the monetary stability of their countries and adequately handle crises in financial affairs. Therefore, The Federal Reserve can be hailed as the source of monetary knowledge globally and in impacting Central Banks such as the European Central Bank (ECB).



DR. RUMI SOLAIMAN

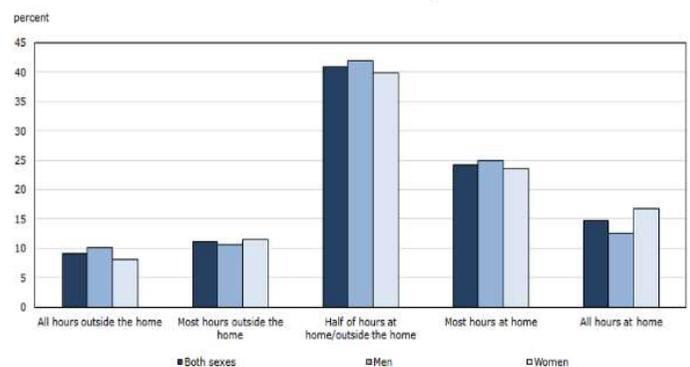
IMPACT OF TELEWORK ON TRANSPORTATION SYSTEM

Nasima Farzana Bhuiyan, Ph.D.

Since this became a matter of research for different organizations and institutes to observe the impact of teleworking specifically in the field of transportation. The general finding is that with the reduced number of trip generations and trip demands the congestion mitigation is improved. But with time of normalcy with COVID-19, many agencies start the policy of partial telework as an order from permanent telework policy. This policy still includes partial commute to and from work per week and there is overall changes are observed in transportation system recently. Below in the graph, a general statistic is presented where preferences of teleworkers are exhibited based on gender differentials.

Impact of Telework on Transportation System Nasima Farzana Bhuiyan, Ph.D. AABEA Night, Page 20 Overall, by less vehicular movements on roadways, congestions can be reduced and air pollution can also be reduced from less traffic. Safety in transportation system is enhanced significantly as well. Governments should also take appropriate actions to sustain the benefits from telework into

Chart 2
Preferences of new teleworkers for telework once the COVID-19 pandemic is over



Sources: Statistics Canada, Labour Force Survey and Labour Force Survey supplement, February, 2021.

the future, by ensuring that businesses and their employees have the flexibility they need to drive economic and social recovery and achieve improved well-being. Relevant policies to achieve these goals pertain to three main areas: supporting complementary investments; helping surmount cultural and legal hurdles; and mitigating potential side effects.

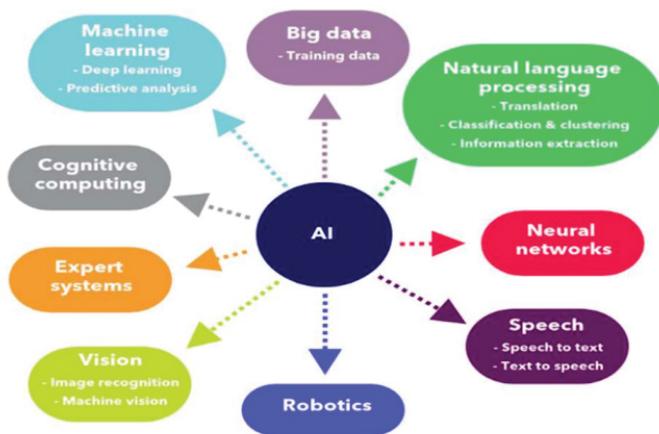
THE PIONEER WORKINGS OF ARTIFICIAL INTELLIGENCE

Shafayat M Dewan

It was always known that computers can follow a set of instructions or a set of rules, but Artificial Intelligence (AI) was developed based on the concept that a computer would understand something, be autonomous and take actions on its own. The later was made possible by combining superfast computing power with very advanced computer applications. We have talked about AI in the past but today we will discuss very briefly how it actually works.

A fully developed AI should simulate human brain and act very fast without mistakes, learn from its own iterations and produce even better and accurate outputs. This intelligent technology should answer questions, solve problems, make predictions, and come up with solutions. Major functional components of AI are quite complex in nature, but an attempt is made below to explain them in a simplified way for general understanding.

THE BRANCHES OF ARTIFICIAL INTELLIGENCE



Artificial Neural Networks (ANN) – A human brain operates using its vast network of neurons and ANN tries to achieve results by mimicking that. Instead of biological neurons, computer-based ANN creates a series of algorithms which works in tandem and analyzes data repeatedly to establish relationships within a large data set to find answers.

Machine Learning - It starts with a software program using sophisticated algorithm to learn on its own, refine the results and ultimately develop better outcome based on the previous experience. Deep Learning – This is a type of machine learning that uses artificial neural networks in the same fashion a biological neural network would process a given set of information; this process enables AI to find correlation within a massive amount of data very quickly, come up with a conclusion based on positive and negative attributes of the data.

Cognitive Computing – This is a process that connects the humans with machine; in other words, this is accomplished by using computerized models to replicate human thought process and come up with the best reasonable answer.

Computer Vision – This is an AI specialty field where computer programs and algorithms work together to pluck out important and meaningful information from digital images and videos. This is a very important tool for selfdriving vehicle. The car computer will analyze all images around it, perform real time superfast calculations, feed the results to other parts of AI, make critical decisions, and control the car to accelerate, change lanes or bring to a stop. Tesla Autopilot and Lexus self-park are good examples of this branch of AI.

Natural Language Processing – A very important subset of AI, this is a software program that allows computers to fully understand human language through data processing and algorithm development.

At the present time, computer Hardware speed limitation for fast computing is not a problem anymore; with the availability of faster computer processors like Intel I9, Xeon, AMD Thread ripper and fast Graphics processors from Nvidia like RTX and Quadro superfast compact computers can be built and using these, AI development can progress very quickly. A lot of technology companies & research labs are investing huge amount of money to produce better AI components and combining them in such a way that all hardware and software will work seamlessly and bring about a very efficient technology which will be almost foolproof. Going forward, it can be used for the betterment of human life .

THE MACKINAC BRIDGE A TOUCH OF A BANGLADESHI PIONEER

Shoib Hasnat

The Mackinac Bridge is a suspension bridge spanning the Straits of Mackinac, connecting the Upper and Lower peninsulas of the U.S. state of Michigan. Opened in 1957, the 26,372-foot-long bridge is the world's 26th-longest main span and the longest suspension bridge between anchorages in the Western Hemisphere.

Dr. Hasnat was a pioneer and equally successful as a world-famous bridge engineer and designer. He designed numerous bridges in the 1950's and 1960's both in the US and Bangladesh. Some of his prominent work was the Mackinac Bridge (Big Mac) in Michigan which is currently the 5th largest suspension bridge in the world and the longest suspension bridge in the western hemisphere. This bridge is featured on the Michigan License Plate as well as commemorative postal stamps. In Bangladesh, Dr. Hasnat



designed the Dhaleswari Bridge (near Manikganj), the first RC box-girder bridge in South Asia as well as the Tora Bridge (Dhaka-Aricha Highway) and the Shangu Bridge, connecting Chittagong and Cox's Bazar.



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HOW BUET'S POSITION IN QS WORLD UNIVERSITY RANKING IMPROVED SIGNIFICANTLY

Prof Dr Abdul Jabbar Khan

BUET has climbed up 162 notches in the engineering and technology category in the UK-based QS Ranking System in 2022, heading straight for the 185th position from the previous 347th.

Let us have a deeper look at the ranking indicators considered by the QS System and what initiatives BUET undertook to enhance its position

Academic Reputation

This accounts for 40 percent of the score. Under this criterion, a pool of global academicians delivered their opinions on the academic proceedings of BUET. In the preliminary stage, the university can provide a maximum of 400 academicians to QS for creating this pool. BUET submitted a list of 320 so far. QS interviewed selected academicians from this list and from their own previous database, complying with the required confidentiality. Their evaluation earned BUET a score of 72 in Academic Reputation, seven points more than the previous year.



Employer Reputation This criterion contains a weightage of 30 percent. This criterion also involved interviewing 190 employers, based on whose opinions BUET scored 90, which is 27 points more than the previous year. Under this criterion, BUET had the scope to send the names of 400 employers. BUET has the scope of plugging in the gap by adding 210 more employers in the future.

Citations per Paper This segment accounts for 10 percent. From Scopus, the QS directly acquires the information about how many times the journal articles by BUET teachers were cited. This year BUET scored 70, which is four points higher than that in the previous year.

H-index

This holds a weightage of 10 percent. This index scrutinises how vital the published journals are in practical applications. The QS gave BUET a score of 61 in this segment, which is also five points higher than the previous year.

International Research Network (IRN)

The weightage of this part, which is a new addition in 2022, is also 10 percent. It examines if BUET is doing collaborative research with universities of different countries and industries. BUET scored 36 in this portion.

The overall score of BUET stands at 72.5, which is nine points higher than the last year, advancing BUET by 162 notches. The question which could be on everyone's mind is what catapulted BUET's position.

1) The recent initiatives gearing up Academic Reputation of BUET

- BUET continued its academic activities even during the coronavirus pandemic. To this goal, the BUET authority offered interest-free loans (around Tk three crore in total) from the university fund to students to use mobile data and devices such as laptops, desktops, and mobile phones. The registration fee was waived on the students' demand.

These initiatives and their sound management helped BUET complete three terms in the pandemic-hit two years. The university usually cannot squeeze in more than three and a half terms in two years, owing to different circumstances.

- During this coronavirus pandemic, BUET academic council approved three new faculties namely the Faculty of Post Graduate Studies (FPGS), Faculty of Chemical and Materials Engineering (FCME), and Faculty of Science (FS). Recommended by the syndicate, the establishment of these three faculties awaits final approval from the authority.

- Another challenge during the coronavirus pandemic was freshers' intake. Upholding BUET's legacy and reputation, the admission test was organised in two phases. At first, 18,000 candidates took part in the MCQ exam. In the second phase, 6,000 students selected from the first phase participated. Due to the Covid-19 outbreak, it was not possible to examine and evaluate papers manually, and therefore, the job was delegated to a software innovated by BUET.

Even amid the challenge posed by the coronavirus spell, the admission test results were published with impressive haste. This fresher batch has already completed classes for the first term.

Their first term exams will commence in person on May 16, 2022.

- The academic council and the syndicate forwarded a major decision about advancing the post-graduate academic programmes by involving foreign university teachers, which was later finalised by the finance committee.
- Research & Innovation Centre for Science & Engineering (RISE) has been set up to incubate innovations and enhance the scope for collaborative research with the overarching goal of catalysing research and innovation.
- The Centre for Energy Studies (CES) has been transformed into the Institute of Energy and Sustainable Development (IESD).
- Initiatives were undertaken to start new courses, aligned with the fourth industrial revolution, the SDGs, and the Vision 2041.
- A DPP of Tk 2,567 crore has been forwarded to the education ministry through the UGC for reshaping and modernising existing research projects. If approved, this plan, implementable in three years, will take BUET's research status to a new level.
- Digital takeover has eased all procedures regarding payment of students' dues, clearance, testimonial, transcript, and provisional certificate. The 2015 batch and their juniors are the beneficiaries of this digitisation.
- All the aforementioned information about BUET, sorted out in an organised manner, are at the fingertips of global educationists because BUET has made its website much more informative in the recent years. A comprehensive picture, including detailed figures on the number of teachers, the ratio of teachers to students, publications, and research scopes, is provided.

2) Employer Reputations climbed up primarily owing to the website visibility. The BUET alumni have an impressive track record in the global job market, which did not come to the limelight in the past. There was not a clear picture of how deeply BUET itself was involved in professional activities.

- There was not a big arrangement for publicity. Apart from the central website of BUET, multiple department websites display comprehensive information about UG and PG degrees, academic syllabus, extra-curricular events, industry-oriented programmes, research scopes, and highlights of different professional projects. The BUET authority has also geared up personal-level communications with employer organisations, paving the path for employers' solid impression of BUET graduates.

The improvement in 3) Citations per Paper and 4) H-index owes mainly to the following initiatives or steps:

- Both these indicators revolve around journal publications. Scopus data reveal that the number of publications from BUET stood at 519 in 2020 while it climbed to 698 in 2021.
- A careful analysis of past research budgets shows that the funding allocated for the research sector remained idle and therefore went back to the state treasury, which is frustrating. The initiatives by the current administration and its management plugged in that gap, virtually eradicating the possibility of leaving the research fund unused.
- Fellowship has been initiated to attract post-graduate MSc and PhD researchers. A PhD fellow is entitled to a scholarship of Tk 45,000 for 36 months each and a master's fellow to Tk

30,000 for 18 months each. Foreign students are also under the purview of the programme. A transparent policy, approved by the syndicate, decides who would be awarded the scholarship. Recently, 40 master's and 10 PhD students claimed this scholarship. Multiple alumni batches, especially Batch 85, donated a staggering amount of around half a crore BDT in this regard.

- Apart from fellowship, Teaching Assistantship (TA) has been introduced for other meritorious researchers. Combining all departments, a total of 132 TAs have been awarded so far. These TAs will receive around Tk 22,000, which is the same as the basic salary of Grade 9. Consequently, researchers can provide their undivided attention to their research in addition to enjoying an on-campus job. It may be appreciated that quality publications come from dedicated research.

- Financial Incentive for Journal Publication has been initiated by the BUET authority to inspire teachers in publishing journals. Each publication, meeting a set of approved criteria, will receive an incentive of Tk 1,50,000. This initiative created a pathway back to research for the teachers who had long been detached from such work.

- Basic Research Fund has been introduced for immediate expenditure required for research and attendance at local and foreign conferences by research students under the teachers. Under this initiative, a professor can receive a maximum of Tk 3,00,000, an associate professor Tk 2,00,000, and an assistant professor Tk 1,00,000; spendable in two years.

- Moreover, An Internal Research Grant worth Tk two crore has been channeled to RISE from BUET's fund, enabling the funding of the research proposal of a maximum of Tk 20 lakhs from BUET teachers, examined by RISE and approved by a higher committee.

5) The International Research Network (IRN) is a novel index featured by QS. The current score of BUET is 36 according to this index. With its limited resources, RISE has so far signed 10 international cooperative research contracts and memorandum of understanding. Moreover, research projects have also undertaken with multiple global organisations through some institutions of BUET. All these endeavors are reflected in the current score under this index, ushering in sustainable progress for BUET in global affiliation in research.

To sum it up, a university ranking is not for eternity. It is more challenging to uphold this legacy than merely achieving it. We must take this fact into account that the current score and position are relative. Other universities of the world will not sit idle. Therefore, it is not the time to bask in complacency. To accelerate this ongoing striving, we need the commitment and creativity of the administration, the earnestness of teachers, students, employees, and officials, immediate initiatives in creating skilled and sufficient manpower, generous budget allocation in the education and research sectors, and above all, the continuation of the ongoing cooperation from all ministries of the government.

The unstoppable journey of BUET symbolises the unstoppable journey of Bangladesh.

Prof Dr Abdul Jabbar Khan is the current pro-vice chancellor of Bangladesh University of Engineering and Technology. He is an eminent geotechnical engineering scholar and a public service recruitment expert.

Courtesy: The Daily Star

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