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11TH ANNUAL DINNER



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PRIME MINISTER • PREMIER MINISTRE

November 17, 2017

Dear Friends:

I am pleased to extend my warmest greetings to everyone attending the 11th Annual Dinner hosted by the NED Alumni Association Canada (NEDAC).



Since it was founded, NEDAC has provided a variety of social and professional services to its members. This evening offers a wonderful opportunity to celebrate the work of the association, and to reflect upon the tremendous contributions that Pakistani-Canadians have made, and continue to make, to Canada's success as a nation.

I would like to thank NEDAC for organizing this event, and for fostering fellowship amongst members of the Pakistani-Canadian community.

On behalf of the Government of Canada, I wish you a memorable and enjoyable dinner.

Sincerely,

The Rt. Hon. Justin P. J. Trudeau, P.C., M.P.
Prime Minister of Canada



Premier of Ontario - Première ministre de l'Ontario

December 17, 2017

A PERSONAL MESSAGE FROM THE PREMIER

On behalf of the Government of Ontario, I am delighted to extend warm greetings to everyone attending NED Alumni Association Canada's 11th Annual Dinner.

Newcomers are a vital part of Ontario's economic vitality. They bring vital skills and international experience into our workforce, and help us build a strong, globally competitive economy.

I commend NED Alumni Association Canada for its commitment to helping engineers of Pakistani origin upgrade their skills, form beneficial networks and find opportunities in Ontario.

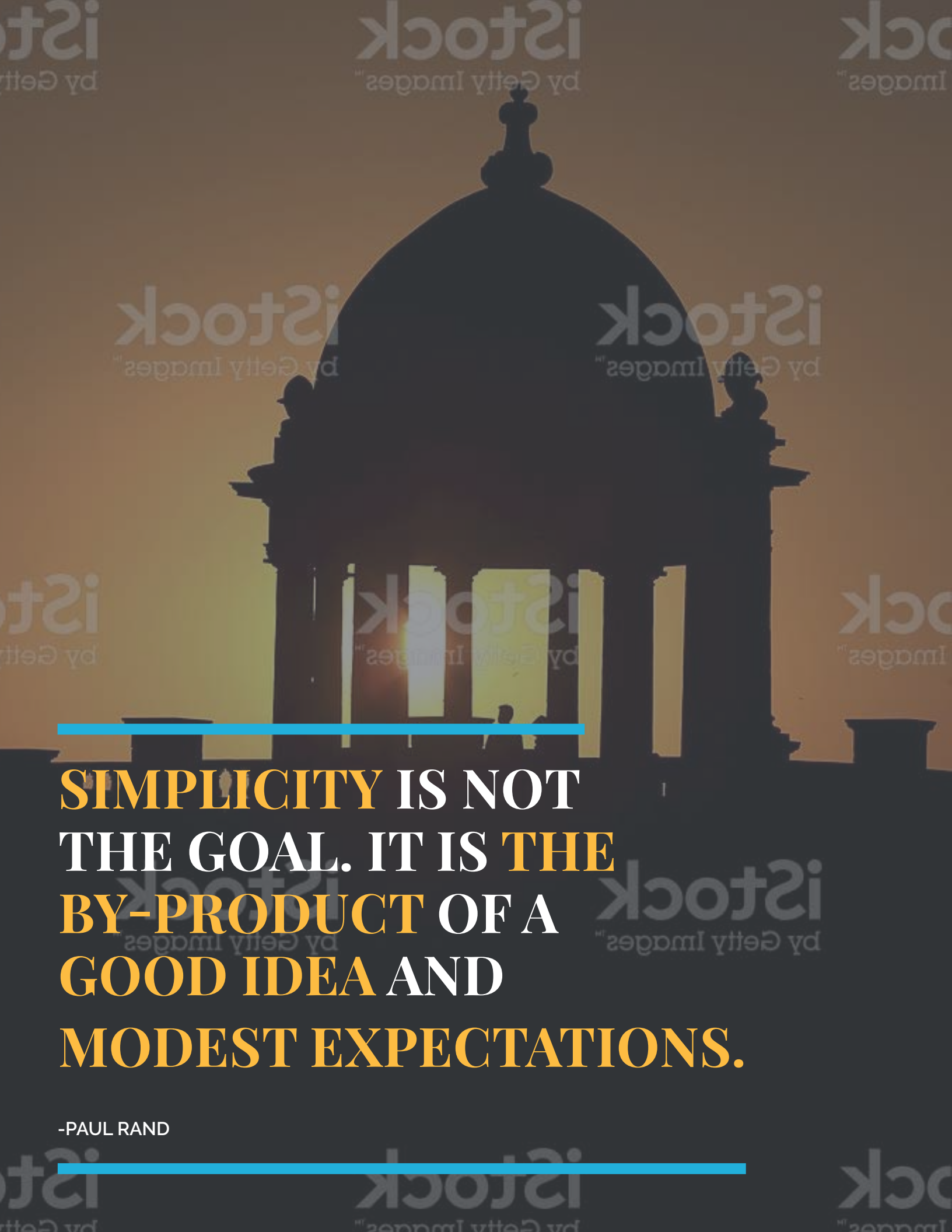
Our government will continue to work to remove barriers for internationally trained professionals. Because when newcomers succeed, Ontario succeeds.

I wish all of you much ongoing success. Have a wonderful reunion dinner!

A handwritten signature in black ink that reads 'Kathleen Wynne'.

Kathleen Wynne
Premier



A silhouette of a large domed building, possibly a temple or a government building, set against a warm, golden sunset sky. The building's features, including its dome and columns, are dark against the bright background. A horizontal blue line is positioned above the text.

**SIMPLICITY IS NOT
THE GOAL. IT IS THE
BY-PRODUCT OF A
GOOD IDEA AND
MODEST EXPECTATIONS.**

-PAUL RAND

A horizontal blue line is located at the bottom of the page, below the author's name.

Shahid Chishty
Publication Secretary



From the Editor's Desk

Another phenomenal year comes to an end at NEDAC, which was filled with fun events and new programs. This edition includes Fall and Winter issues of the newsletter.

The board is THANKFUL to the membership for making the events successful and all organized events have been sold out before the deadlines.

This year marks two important milestones for Canada and Pakistan. This year we are celebrating the 150 years for Canada and also the 70th birthday of Pakistan.

I would like to thank all those who wrote articles for this edition and encourage other members to send in your articles; we would like to hear from you. Please send in your feedback as well to make the publications better.

Happy Holidays and a Happy New Year!

Shahid

Shahid Chishty, P. Eng., PGD, CMQ/OE
Publication Secretary, NEDAC

Syed Imran Ahmed
President



From the President's Desk

Dear Alumni:

It is a delight to welcome you to NED Alumni Associations Canada's 11th Annual dinner. This year has been an exciting year; we are celebrating the 150 years of Canada and also the 70th Birthday of Pakistan.

The year comes to an end and once again with the tremendous efforts of board members, we were able to bring the membership fun-filled social programs and professional development programs. As they say, a picture is worth a thousand words, so you will find in this magazine coverage of these events showing how much the members and guests enjoyed and participated in the events.

I also would like to congratulate NED Alumni in Canada for sponsoring Scholarships to needy NED students in Pakistan. One important message that I would like to convey to all the current members is to reach out to fellow NEDians who have not become members yet. There are a large number of graduates residing in the GTA and can benefit from the programs that NEDAC offers.

I hope you will enjoy the evening today. Please send in your comments as we seriously consider your suggestions and implement them as much as possible. Today's program is an example, where the format and content have been revised as per your valued input.

Long Live NED. Long Live NEDAC.

Imran

Imran Ahmed
President, NEDAC



PAKISTAN
INDEPENDENCE DAY

14th of August

Since 1947

The NEDAC Board

The current board is actively participating in providing quality programs from Technical seminars to Sham-e-Ghazal, Eid Milan Party to Cricket tournament, Iftar Party to Annual picnic etc. Most of the programs were held first time which provides a strong ground for the boards to come.

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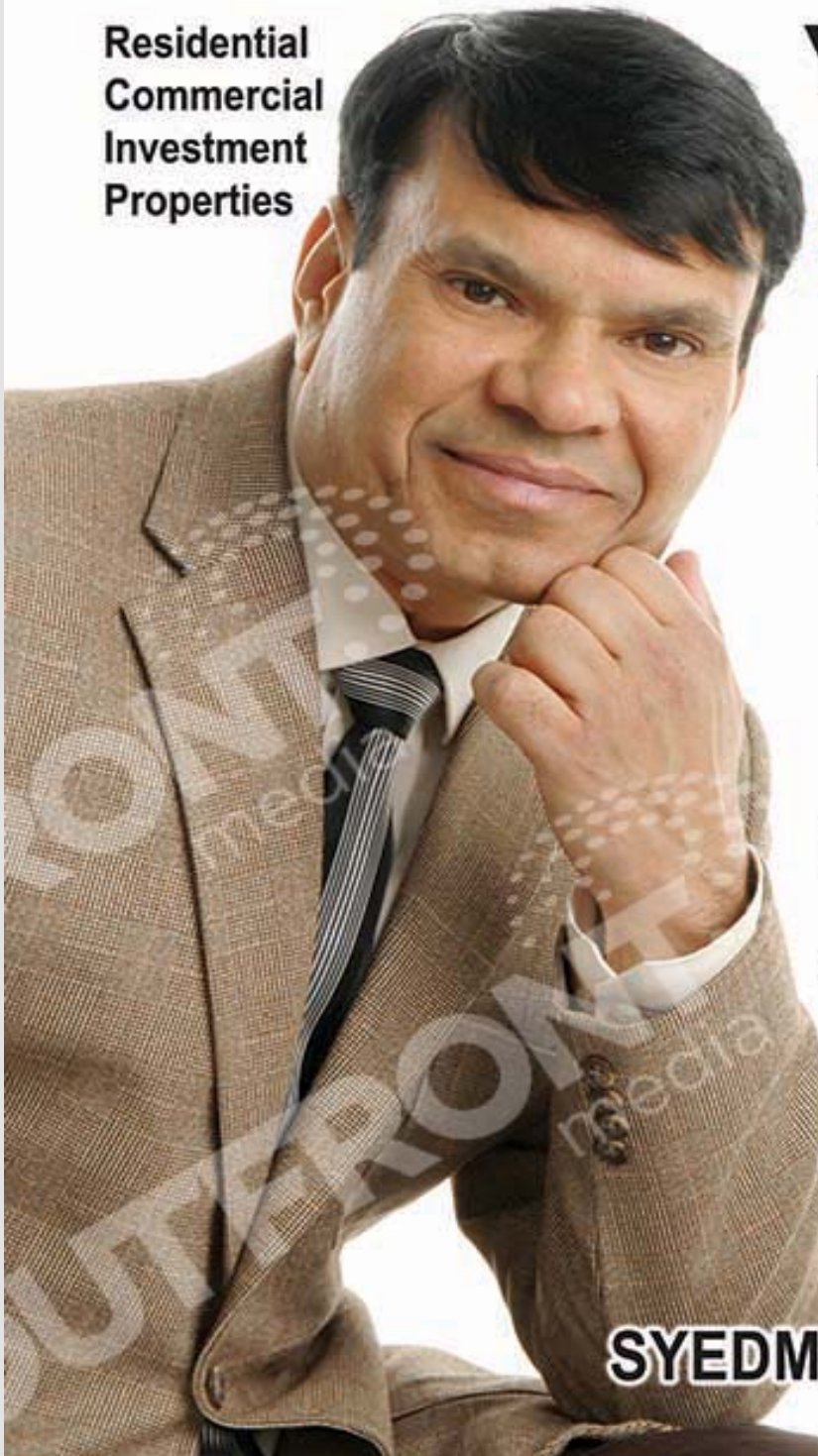
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Nadia Zia
Social Secretary



NEDAC Eid Milan

EID IS ONE EVENT WHICH IS BOUND TO BRING SMILES TO EVERYONE'S FACE! THE EVENT WAS HELD ON JULY 16, 2017, AT SYMPHONY BANQUET HALL.



To bring variety to our social events, we decided to gather over lunch. It was a very lively environment justifying the spirit of Eid. The hall was decorated with colorful streamers and balloons and lights held at right luminous. And much to our delight, the turnout was great and everyone shared smiles, laughter, and cheers with family and friends.

The event kicked off with the welcome greetings from Social Secretary, Nadia Zia followed by the recitation of Holy Quran from Zeeshan Ejaz. President, Imran Ahmed then took the podium and walked us through the achievements and accomplishments of NEDAC. The major one was the announcement of "NEDAC Scholarship Program," the program was well applauded by all and attendees enlightened themselves with all other activities of NEDAC.

The incredible work of collecting words from the NED VC Dr. Hashmat Lodhi and all the recipients of scholarship was completed by Karamat Ullah. As the slide was played in the hall, the pin drop silence clearly showed that everyone was deeply gratified by the efforts of NEDAC, which were only possible with all participating in the program.

Junaid Akhter, a renowned poet, and a NEDian, who is now well known in North America took the event to a whole new level. The humor, thoughts, and depth in his writing and delivery won everyone's hearts, and all greatly enjoyed his elocution.

And to keep the audience involved, NEDAC arranged "Jeetho Eid Milan" game. It was run by Ursula Nazar Abbas and Zeeshan Ejaz. Much to everyone's recognition, it was themed on Neelam Ghar show. Everyone participated and brought life to the event. Prizes were given out to all who answered correctly.

Music brings out many hidden talents. "Sur key Sath Jeetho" was themed on Antakshari. It was run by the music lovers, Nazli Khan and Islam Nabi Khan. We were all amazed at many talents sitting within us.









**IT DOES NOT MATTER HOW
SLOWLY YOU
GO AS LONG AS YOU
DO NOT STOP.**

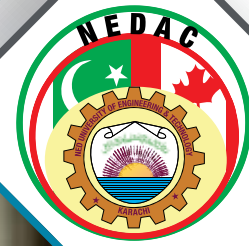
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Najam Yaseen
Executive Member



NEDAC Annual Picnic

SUMMER, THIS YEAR IN TORONTO, CAME WITH A DIFFERENT ATTITUDE AND FLAVOUR. JUST WHEN WE THOUGHT THE SUNNY DAYS WERE OVER, ANOTHER COOL AFTERNOON WAS HOSTED BY NEDAC ON AUGUST 26TH.



This NEDAC event was the annual picnic of the current board and its members. The day was perfect, and organizers started to show up at the Lodhi Farm in Milton that was discovered through networking and local community connections.

Guests were greeted at noon, and the activities lasted until about 5 PM. From the appetizers being served under the shed to a full selection of barbecue chicken and juicy burgers followed by a four-course lunch menu, there were several games such as badminton, soccer, cricket, tug of war and musical chairs.

Special sponsors named PNF Distributors/Pak National Foods and Guard Rice were gracious enough to cover some food items along with their gift hampers to lucky draws rewarding chopper rides, cash cards, and many other prizes.

Congratulations to Asmara nasim, Aisha nasim, Rana nasim and Syed nasim uddin who won a private plane ride, and to Hamnah Kapadia, Zara Sheikh and Salma Shakeel, winners of a Yacht Day Trip with family and friends.

Soon after lunch, the entire gathering sang the Pakistani and Canadian national anthems with great enthusiasm and fervor. A brief presentation ceremony followed where the sponsor gave away prizes to the lucky winners of the random ticket draw.

Cricket was not to be missed on a day like this and team Zeeshan versus team Jawwad dueled it out with team Jawwad winning. However, the tug of war turned out to be the most enjoyed activity by all big and small and the pictures speak for themselves.

During the tea being served, all were summoned to join the musical chairs. First, the ladies went, and men ensued. Lots of laughter and humour surrounded the atmosphere, and grown-ups became kids for a few minutes.

The event ended around 5 with cleanup.









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**SOMETIMES IN THE
DAILY CHALLENGES
THAT LIFE GIVES US,
WE MISS WHAT IS
TRULY IMPORTANT.**



Who Packed My Parachute?

By Karamut Ullah

This small article (sent to me by an ex PAF officer) really made me think about my life. Let's each take a moment to think, "Who packed my parachute?"

Air Commodore Ahmed was a fighter jet pilot. In a combat mission, his plane was destroyed by a missile. However, he ejected himself and parachuted safely. He won acclaims and appreciations from many. After five years one day he was sitting with his wife in a restaurant. A man from another table came to him and said "Are you Captain Ahmed?! You flew jet fighters. You were shot down!"

"How in the world did you know that?" asked Ahmed.

"My name is Asalam, and I packed your parachute." the man replied with a smile.

Ahmed gasped in surprise. "If that parachute hadn't worked, I wouldn't be here today!"

Ahmed couldn't sleep that night, thinking about that man. He wondered how many times he might have seen Asalam, but never acknowledged him or asked how he was simply because he was a fighter pilot and that person was just a safety worker.

So friends, who is packing your parachute?

Everyone has someone who provides what they need to make it through the day. We need many kinds of parachutes when our plane is shot down – we need the physical parachute, the mental parachute, the emotional parachute, and the spiritual parachute. We call on all these supports before reaching safety.

Sometimes in the daily challenges that life gives us, we miss what is truly important. We may fail to say hello, please, or thank you, congratulate someone on something wonderful that has happened to them, give a compliment, or just do something nice for no reason.

As you go through this week, this month, or the coming year, recognize the people who pack your parachute and make sure you thank those who have supported you throughout your life one way or the other- through their words, deeds, prayers, etc.



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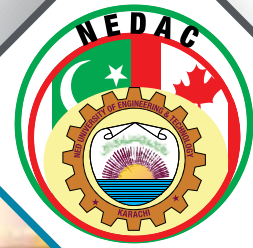
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Karamut Ullah
Finance Secretary



International NED Alumni Convention

A LARGE NUMBER OF NEDAC MEMBERS ATTENDED THE 13TH INTERNATIONAL NED ALUMNI CONVENTION ORGANIZED BY NEDIAN-NA IN DETROIT, MICHIGAN ON SEPT 09. 2017.



NEDAC delegation was lead by NEDAC President Mr. Imran Ahmed, Vice President Mr. Islam Nabi Khan, General Secretary Ms. Nazli Khan, Finance Secretary Mr. Karamat Ullah, Social Secretary Mrs. Nadia Zia, Executive Members Mrs. Saima Gillani & Ms. Naila Waseem. In addition, many senior NEDAC members also attended the event with their families.

The theme of this year's convention was "Building Bridges....Strengthening Bonds" and as per the theme, one can witness the outright love of Nedians towards its alma mater when so many are gathered to meet and greet each other.

Even though the last few years NEDAC members have been attending the annual convention, but this was the first time that so many NEDAC members with their families attended and showed their strength at the annual convention of NED-NA.

The Chairman of NEDIAN-NA Mr. Amir Ullislam gave special thanks to the NEDAC members who came all the way from Canada to attend the event. He said that Canadian NEDians are very close to his heart. The venue burst into a loud round of applause when almost 45 Canadian NEDians rose from their seats to show their presence.

NEDAC delegation also had the opportunity to meet current Vice-Chancellor of NEDUET, Dr. Sarosh Lodhi separately to discuss the points of mutual interest, Dr. Lodhi thanked the Board for extending their support to students in need of scholarships and offered his unconditional support for NEDAC work. He also informed that NED had been granted 200 acres of land in Karachi to build its NEW university campus. NEDAC gave full assurance to the VC that its current Board will assist NEDUET in every way possible to support its aggressive ongoing and future projects.



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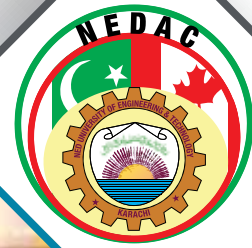
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Karamut Ullah
Finance Secretary



NEDAC Scholarships

The NED University of Engineering & Technology is the oldest institution in Karachi, Pakistan. It initially started as an Engineering college in 1922 established by private donors and was named Prince Wales Engineering College. In 1924 it was renamed as NED Engineering College in memory of **Nadirshaw Edulji Dinshaw** on his first death anniversary as being the major donor for the development of the college.

After the creation of Pakistan in 1947, the Government of Sindh assumed control and renamed it as NED Government Engineering College, Karachi. In 1977 it was granted full University status and named as NED University of Engineering & Technology, Karachi. (NEDUET).

With a humble 50 admissions in Civil Engineering in 1922, this number has now grown to **12,261 in 88** various programmes in 2017. , In the annual report 2016-2017, according to Dr. Sarosh Lodi the current Vice Chancellor, out of 451 faculty members, 158 are Ph.D.'s. The total number of Scholarships awarded in 2016-2017 was **826**, which equates to **PKR 27.4 Million**. The number of private donors who contributed to this amount was **55**, and NEDAC is proud to be one of them.

In the 2016 Annual Dinner event, the President of NEDAC Mr. Imran Ahmed announced the beginning of NEDAC Scholarships for NEDUET students. It was a challenging task, hence a team comprising of Liaison Secretary Mrs. Iram Bukhari, Finance Secretary Mr. Karamat Ullah and President Imran Ahmed started working on it.

Mr. Imran Ahmed visited Pakistan and met with Dr. Sarosh Lodi Vice Chancellor and Dr. Ali Hassan Mahmood Controller Student Affairs to establish the NEDAC Scholarship procedure. After great struggle, a bank account in the name of NED Alumni Association Canada was opened in Pakistan in University Branch Karachi.

The NEDAC Scholarship is known as **Need-cum-Merit Scholarship** and is for low family income students who are not eligible for awards from any other source. The Department of Student Affairs NEDUET collects and scrutinizes the applications before sending to NEDAC. A committee comprising of five NEDAC Board members review's the applications based on marks obtained in last exams, monthly income of family and number of dependents and their ages. The final list of students is then sent to President NEDAC who then instructs the Finance Secretary to release the funds to NEDUET.

As per the fee structure of 2017-2018, the total tuition fee for a four-year engineering degree for one student is **PKR 176,250.00 (CAD 2,145.00)** as per current exchange rate. NEDUET prefers a student to be supported throughout the four years if he/she maintain his/her grades. The province of SINDH is full of talented students, but the fluctuating law & order situation and the high cost of tuition fees make it difficult for students to maintain their grades and prosper in society.

NEDAC proudly provided **five scholarships** in its first year amounting to **PKR 881,250.00 (CAD 10,750.00)** from its own fund. The five recipients were:



Rija Nadeem
Software Engineering



Syed Rajab Ali
Polymer and
Petrochemical
Engineering



Tuba Mahmood
Software Engineering



**Mohammad
Ayaz**
Industrial and
Manufacturing
Engineering



**Aneeqe Ahmed
Khan**
Industrial and
Manufacturing
Engineering

In addition to these, ten more scholarships are being pledged and contributed by NEDAC members, current board members & their friends. We are planning to increase the number of Scholarships this year to 20 amounting to PKR 3,525,000.00 (CAD 42,900.00). It is a significant goal, and we request all NEDAC members and their friends to contribute towards this great program. Any NEDAC member or non-member can pledge any amount and make payments by any of the following methods:

- By e-transfer to scholarships@nedalumnicanada.org scholarship
- Through PayPal by visiting the website www.nedalumnicanada.org
- By writing a cheque in the name of NED ALUMNI ASSOCIATION CANADA

For further detail, please visit <http://www.nedalumnicanada.org/update/nedac-scholarship>



happy
birthday
Canada
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-JOHN G. DIEFENBAKER

NEDians in Attendance

NEDAC President Visits NED University

NED Alumni Canada President Imran Ahmed visited NED university and met with the Vice Chancellor Dr. Sarosh Lodhi. Both discussed the topics of mutual interest. Dr. Sarosh Lodhi thanked NED Alumni Canada for providing Scholarships for Needy NED students.



NEDian at PEO event

NEDAC Member Mr. Sadiq A. Pirani, P.Eng., FEC, FGC (Hon.) attended the 2017 Annual PEO Queen's Park Reception which was held to celebrate the 95th anniversary of the association and 150th birthday anniversaries of Canada and Province of Ontario.



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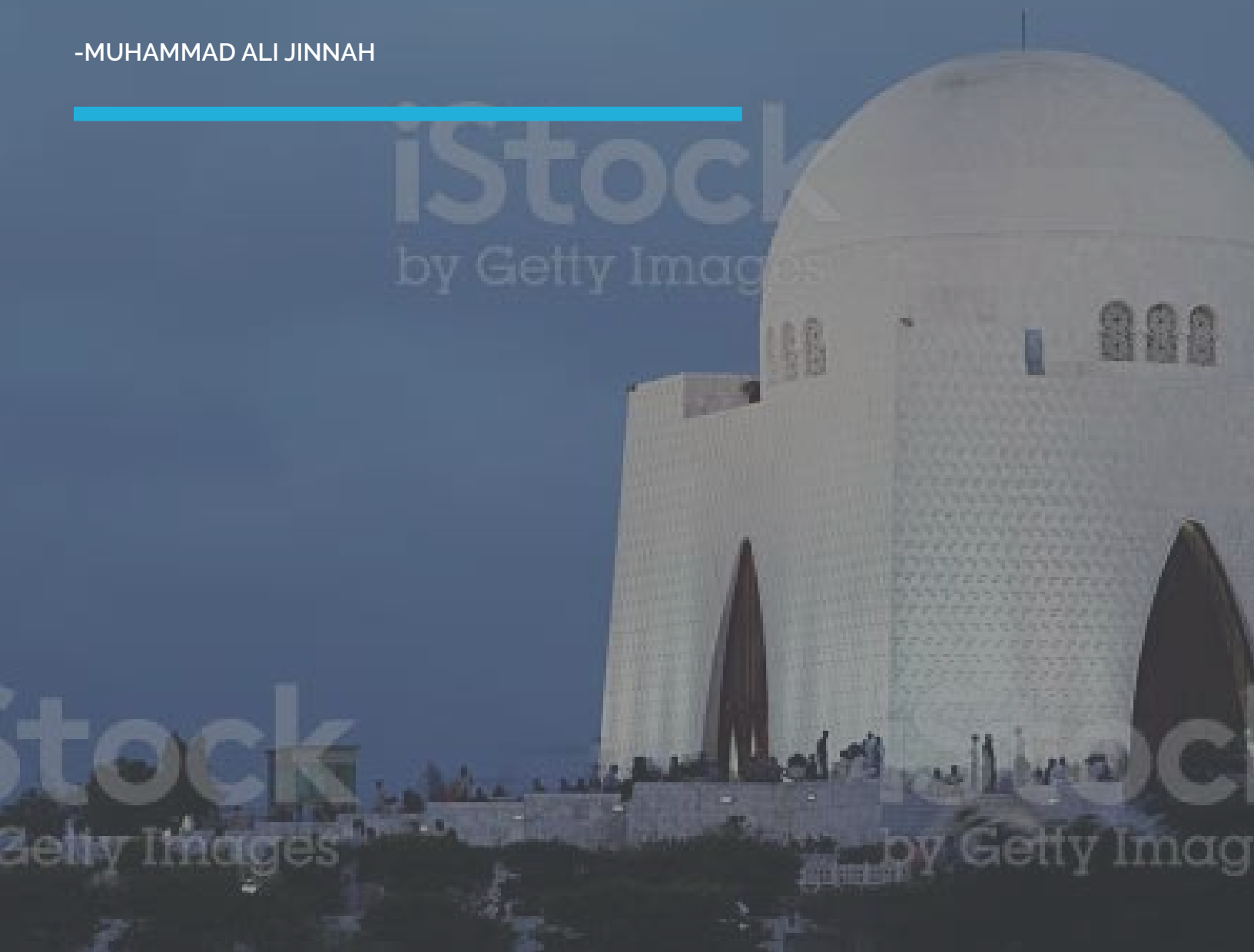
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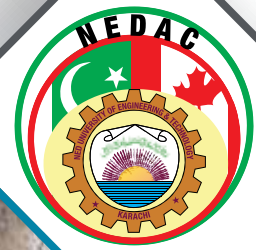
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-MUHAMMAD ALI JINNAH



Nazli Khan, Msc, P. Eng
General Secretary



NEDAC Members Serving in (PEO)

NEDAC is full of many shining stars on the horizon of Canada. We are very proud to have some of our NEDAC members serving in the Professional Engineers of Ontario board on a volunteer basis and willingness to guide NEDIANS for PEO related matters.

Abdul Waheed Shaikh, P.Eng., PMP

Abdul Waheed completed his Civil Engineering degree in 1995. He has been working with the City of Mississauga for the last 11 years and has worked on a large variety of transportation planning and engineering projects. Abdul Waheed has held progressive roles with the City, including Transportation Project Manager, Manager Transportation Projects and currently as Manager Rapid Transit. Prior to joining the City of Mississauga, he worked with consulting firms in the Toronto area. Abdul Waheed has been a volunteer member of PEO's Experience Requirements Committee (ERC) since 2012. **Contact info: Abdul.Shaikh@mississauga.ca**

Anis Mohammad, P.Eng., FEC.

Anis Mohammad graduated from Mechanical Engineering in 1991. Currently he is working as an Application Engineer at Dana Incorporated. He received the Appreciation award from Premier Kathleen Wynne, he also received the Service Award in Engineering from the Government of Ontario in 2015 and was also a recipient of two US patent awards. He is a member of SAE (Society of Automotive Engineers) as well as serving on PEO's Experience Requirements Committee since 2004. **Contact info: anisb_muhammad@yahoo.ca**

Arshad Azhar, P.Eng., FEC.

Arshad Azhar completed his Civil Engineering degree in 1984. He then earned his Master's degree in transportation engineering from NED in 1994. Arshad immigrated to Canada in 1999 where he earned a Diploma with Dean's Honour in Transportation Engineering Technology from Mohawk College. He worked for the City of Brampton, Regional Municipality of Niagara, and the Town of Oakville, before finally settling with the Ministry of Transportation (MTO) in 2003. Currently, Arshad is working as the Design and Contract Standards Engineer in the Highway Standards Branch of MTO. Arshad is the first Pakistani-Canadian who received the Professional Traffic Operations Engineer (PTOE) designation from the Transportation Professional Certification Board Inc. USA in 2005. He has been a member of PEO's Experience Requirement committee since 2004. He is also an active member of the Ratification group of ERC. **Contact info: arshadned@gmail.com**

Ghaus Rizvi, PhD, P.Eng.

Ghaus Rizvi graduated from Mechanical Engineering in 1977. He is an Associate Professor, in Faculty of Engineering and Applied Science in University of Ontario Institute of Technology. He has been serving as Executive Board member of PEO Lake Ontario Chapter since 2005, and is member of the Experience Requirements Committee since 2013. **Contact info: Ghaus.Rizvi@uoit.ca**

Mohammad Khalid, P.Eng.

Mohammad Khalid graduated in 1974 in Electrical Engineering. Mohammad Khalid is a Senior Associate of the design firm, R.V. Anderson Associates Limited, Toronto and the Manager of the Electrical / Control & Instrumentation group. With over 41 years of experience in electrical engineering, he has designed power and control systems of several municipal projects related to water and wastewater systems in Canada. Mohammad leads his team with rigorous deadline efficiency skills and performs Quality Assurance on all projects. He has been serving the PEO since 2001 as a member of PEO Experience Requirements Committee (ERC). **Contact info: chamansa@hotmail.com**

Nazli Khan, M.Sc., P.Eng.

Nazli Khan completed her Bachelors of Civil Engineering in 1990 and Master's in Structures in 1997 from NED. She has two decades of significant experience, within the realm of structural engineering her expertise includes; designing tall buildings, structural innovations, value engineering, and, general project management. Nazli immigrated to Canada in 1997 where she started her professional career in 2000. She has successfully worked on many prominent and tall buildings in not only Canada but also in USA, UK and the Middle East. She is currently working as the Senior Project Manager at WSP Canada Inc. and has been an active member of PEO's Experience Requirements Committee since 2014. **Contact info: nazliqurrat@hotmail.com**

Sadiq A Pirani, P.Eng.

Sadiq Pirani graduated from Civil Engineering in 1994. A Professional Engineer, he is currently working as a Senior Project Manager at a private engineering consulting firm. He has been serving on the PEO since 2006 as a Chapter Executive Board member, Program Director, GLP Director, Mentor and has been actively involved in various other PEO Committees. He is also an External Advisor to York University Students for their final year Capstone projects. **Contact info:** sapirani@yahoo.com

Shiraz Rehmani, P.Eng.

Shiraz Rehmani graduated from Mechanical Engineering in 1970. Currently he is working as consultant in Process and Nuclear Industry. He has been serving the PEO as a member of PEO Experience Requirements Committee (ERC). **Contact info:** shirazr@hotmail.com



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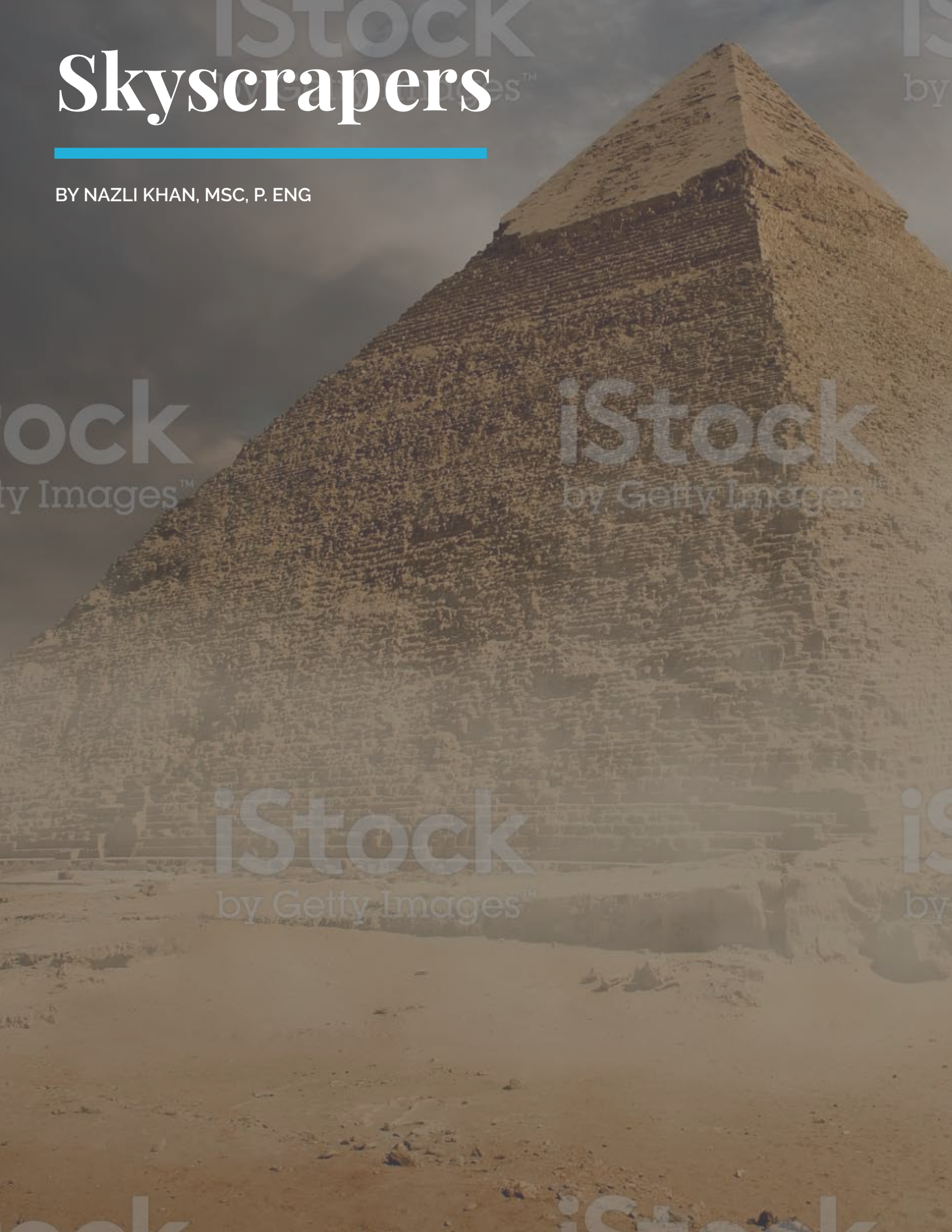
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Skyscrapers

BY NAZLI KHAN, MSC, P. ENG



There is no absolute definition of what constitutes a “tall building;” the meaning is completely subjective. For example, in Toronto a 25 storey building located in a predominantly 50 storey building neighborhood may not be considered tall, whereas a 10 storey building located in a small town would. Similarly, a 50-storey building in a 100 plus environment of Dubai is not considered a tall building but 8-storeys in the Cayman Islands is one of the tallest there.

Numerous buildings that are not particularly high, but slender enough, give the appearance of a tall building. Conversely, there are numerous large-footprint buildings that are quite high, but their lack of floor area rules them out of being a tall building. Tall buildings are generally defined as buildings with height that is greater than the width of the adjacent street right-of-way or the wider of two streets if located at an intersection. Since streetright of-way width varies, typically between 20 and 36 meters, this definition reinforces the importance of site context when considering if a building is tall.

In absolute terms, a tall building may have different definitions for an architect, transportation engineer, fire-prevention specialist, environmentalist and the common person. However, structural engineers have an utterly distinct perspective. A tall building, from a structural point of view, can be defined as one whose structural system must be modified to make it sufficiently economical to resist lateral forces due to wind and earthquakes within the prescribed criteria for strength, drift, and comfort of occupants.



Great Pyramid of Giza

Historically, tall structures were the preserve of great rulers and empires. The earliest structure now known to be the tallest in the world are Egypt’s **Great Pyramid of Giza**. At 146.5 m it was the tallest man-made structure in the world for nearly 4000 years until the 160 m **Lincoln Cathedral** in the 14th century.

The **Eiffel Tower** then became the tallest structure in the world when it was completed in 1889. Designed by Gustave Eiffel, it was built for the World’s Fair to demonstrate that iron could be as strong as stone while being lighter.



Eiffel Tower

Eiffel was also the engineer for the design of the **Statue of Liberty** (seen on page 42) erected in New York in 1886. Eiffel’s solution of a diagonally braced frame inside the 46 m tall figure represented the most comprehensive system of wind bracing at that time for any structure other than a bridge.

All these earlier structures are not considered a true “building” as they are inhabitable. The nonprofit international organization, Council on Tall Buildings and Urban Habitat (CTBUH), maintains a set of criteria for determining the height of tall buildings, defines “building as a structure that is designed for residen-

tial, business or manufacturing purpose and has floors". CTBUH protocols usually include the architectural top in the criterion for the height of a tall building.

During 1883-1886, the **Home Insurance Building** in Chicago was built based on the modern beam-column frame concept and curtain wall and considered "the father of skyscrapers". In 1889 the word 'skyscraper' was coined to describe the tall buildings in Chicago, despite all the buildings being 12-13 stories in height. During this time stone was still relied upon as a structural material.

As engineers were busy developing new techniques of building high-rise structures it was the invention of the 'elevator' that revolutionized the building industry. This enabled buildings and architect's imaginations to skyrocket, giving a newer and bolder shape to the modern urban skyline.

The first elevator was installed in a departmental store in New York City (NYC) in 1857. The introduction and development of the elevator was a key turning point as it allowed cities to build upward. Most of the architecture of the 20th and 21st century would be impossible without this fundamental invention.

The **Empire State Building** of NYC became the gem of tall buildings in the early 19th century, a period of US dominance in this field. The Empire State Building, rising to 381m at its 102nd floor reigned supreme for a period of 41 years, being surpassed by **World Trade Center** in 1972.

The Empire State Building was a marvel of its time and the courage of its structural engineers is highly appreciated. However, structural system used for this building mimicked those for low-rise buildings and is not considered as efficient as it could have been. The structural systems for building of this era were well defined by the excerpt below:

"As the ground costs too much to permit the erection of one ordinary, old-fashioned building upon it, they pile four or five of the structures of 20 years ago, one on top of the other" (Engineering News, Vol. xxi, January 19, 1889).

Sears Tower (now Willis Tower) in Chicago completed in 1993 was, perhaps the last swan song for US tall buildings. This 442 m, 110-storey super tall tower was the tallest in the world from 1993 to 1998. Willis Tower



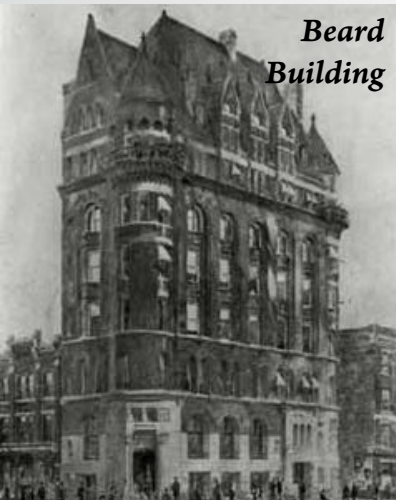
Sears Tower



Burj Khalifa



Beard Building



though 1.5 times of Empire State Building in height resulted in lower costs per unit area. Structural steel used per unit area was almost half of that for Empire State Building.

For almost 100 years, the US dominated in tall buildings until the distinction moved to the Eastern Hemisphere and was knocked out by Kuala Lumpur's **Petronas Towers** at 452m tall completed in 1998 which was superseded by **Taipei Tower**, 509m tall completed in 2004 and finally **Burj Khalifa** the tallest structure in the world since topping out in late 2008 in Dubai at 828 m.

Tall buildings have been part of Toronto's urban landscape since the late 19th century. The history of skyscrapers in Toronto began in 1894 with the construction of the **Beard Building**, which is often regarded as the first skyscraper of the city. In 1905, the steel frame of the **Traders Bank Building** at Yonge and King rose to 14-stories to become the tallest building in the British Empire. Over the course of the following century, the form of tall buildings in Toronto continuously evolved.

By the 1960s, new construction technology and changing ideals in city planning resulted in taller buildings. This began Canada's influence in tall structures. The tallest structure in Toronto is the **CN Tower**, which rises at 553 m. The CN Tower was the tallest freestanding structure on land from 1975 until 2007. However, it is not generally considered a high-rise building, as it is not habitable. The **TD Tower** at 223 meter tall was the 14th tallest building in the world when completed in 1967.

Later, Canada's current tallest building, the **First Canadian Place** (commonly referred to as BMO building) that rises to 298 m, became the 6th tallest building in the world at the time of its completion in 1975.

In the early 21st century, the city's high-rise construction boom began again with the completion of world's most slender building in 2006 at One King Street West at 176 meter tall. In 2012, **Trump International Hotel** was completed, with a top dome height of 252 m and an antenna height of 277m, making it the fourth-tallest structure in Toronto and all of Canada. With the completion in 2014 of **Aura** a height of 272 m, is the highest residential building in Canada. Currently, Toronto is second to just NYC in terms of tallest buildings.

Structural engineers understand that the journey from short to tall buildings is not of scaling structural sizes, but the adoption of new systems. During the middle of the 20th century, the introduction of the shear-wall frame interactions and framed-tube structures made many structures possible. Traditionally, a building has to sustain dead load, live load, wind load, snow load, temperature load, soil pressure, and earthquake load.

Gravity loads accumulated on building floors from the self-weight of the structure itself. Superimposed dead loads in the form of finishes, partitions

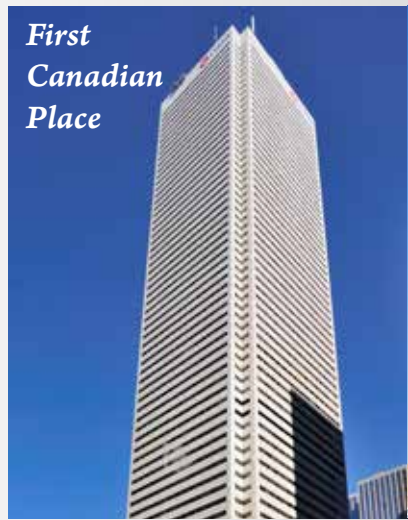
and cladding, and live loads are transferred down to foundations in a similar manner for a building of any height. The main function of all types of buildings is to provide horizontal decks for human occupancy and use. Although the lateral load-resistance is what constitutes the difference between a tall and a low building, design for vertical load is the key to an economical design of a project. Gravity load carrying elements in tall buildings are subjected to large axial loads and may accumulate considerable elastic shortening and lateral movement over the building height. For concrete buildings, long-term effects of creep and shrinkage augment the shortening. Under lateral loads, buildings can move in three directions; East-West, North-South, and, twisting movement.

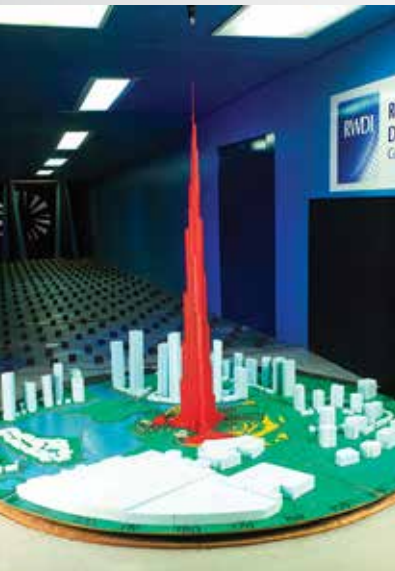
Wind acts on the tower as an applied force over the height of the tower. Wind pressure increases with the height of tower causing displacement and induces building vibration. There are three different ways to calculate the wind loads; first principle, code specified method, and, wind tunnel (*as seen on page 49*). The main structure of a tall building and its façade must be designed to safely withstand the extreme winds to which the building will be subjected to during its expected life.

For an ordinary building, prescribed analytical methods in the code are acceptable, however, for tall buildings, they lack precision, critical to the importance of wind loads to their cost and safety. They do not account well for important wind phenomena such as crosswind excitation, aerodynamic interactions between adjacent buildings, and aerodynamics instability. These may affect not only loads but cause excessive building motions for its occupants. For these reasons, to obtain precise, project oriented information, wind loads and motions of tall buildings are typically determined by wind tunnel tests on scale models of the building and its surroundings.

Earthquake forces act as an applied displacement at the base of a tower and are proportional to the mass of the structure. Earthquake forces are generated by the inertia of buildings as they dynamically respond to ground motion. The unique dynamic characteristics of buildings are fundamental to the structural response and thus the earthquake-induced actions can be mitigated by design. Earthquake design can be done by static analysis with some restrictions, specifically height. For tall buildings, dynamic analysis is the only option to calculate earthquake forces. A competent earthquake engineering design is one where the control of the building is dictated through the building's response. This can be achieved by selection of: preferred response mode, zones where inelastic deformations are acceptable, and, suppressing the development of undesirable response modes to prevent building collapse.

The key to a successful earthquake design lies in the detailing of structural elements so that desirable post-elastic mechanisms are identified and promoted while the formation of undesirable response modes are precluded. Desirable mechanisms are those that are sufficiently strong to resist normal imposed actions without damage, yet are capable of accommodating substantial inelas-





tic deformation without significant loss of strength or load carrying capacity. Such mechanisms have been found to involve the flexural response of reinforced concrete or steel structural elements. Undesirable post-elastic response mechanisms within specific structural elements have brittle characteristics and include shear failure within reinforced concrete, the loss of axial load carrying capacity, or, buckling of compression members. Undesirable global response mechanisms include the development of a soft-storey within a building, or buildings where the structural form or geometry is highly irregular, placing them outside the simplifications made within the engineering models used for design.

The race towards new heights has not been without challenges. Soaring heights of leaner buildings mean flexible structures subjected to excessive vibration under wind action, adversely affecting serviceability and occupant comfort. Considering majority of recent development in high-rises have taken place in the residential sector where vibration issues are more sensitive compared to commercial buildings, motion perception tolerance is much lower.

Building top floor accelerations, where they exceed certain specified limits might trigger a response similar to those associated with motion sickness, dampers are the solution to avoid such a situation. Damping is the process by in which vibration of a dynamically excited structure steadily diminishes in amplitude. An energy absorber or indirect energy dissipation device in its simplest form can keep a building subjected to simple harmonic motion stationary when the natural frequency of the attached absorber is chosen to be or tuned to, the excitation frequency. The skyscraper design – a vigorous tower of clear distinctions between each segment – has maintained an unmistakably classic design over time.

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AEROSPACE			CHEMICAL		
Member #	Name	Grad Year	Member #	Name	Grad Year
0443	Syed Naeem Mukhtar	1981	0288	Shama M. Qureshi	1975
0482	Syed Hasan Jafer Rizvi		0207	Malih Mushtaq Siddiqi	1978
			0399	Syed Nadeem Husain	1980
			0379	Muhammad Serajul Haque	1985
			0387	Muhammad Naeem Arain	1988
			0231	Mohammad Tahir Malik	1996

CIVIL			CIVIL		
Member #	Name	Grad Year	Member #	Name	Grad Year
0013	Mohammad Yaqoob	1964	0477	Zaki Ahmed Khan	1975
0242	Haseeb Ashraf	1964	0015	Syed Aftab Rizvi	1978
0046	Chaudhry Muhammad Anwar	1965	0016	Sofia Aftab Rizvi	1978
0496	Shaikh Akhtar Husain	1965	0178	Hazoor Ahmed Naseer	1978
0041	Ismat Kamal	1966	0330	Qadeer Ahmed Khan	1978
0211	Aziz Rehman	1966	0338	Absar A. Faruqui	1978
0143	Azhar Fasih Khan	1967	0007	M. Idrees Khan	1979
0256	Mashkooor A. Naqvi	1967	0008	M. Perwez Alam	1979
0351	Mohammad Abdul Qadir	1967	0017	Zubair Ahmed	1979
0497	Salman M Khan	1968	0024	Safdar Hussain Noorani	1979
0367	Naheed Ghazanfar	1969	0035	Nassir F. Muhiuddin	1979
0210	Muhammad Iqbal	1971	0057	Mohammad Jafar Khan	1979
0019	M. Aslam Siddiqui	1974	0063	Syed Jamilur Rehman	1979
0187	Hasan Fahmi	1974	0078	Khurshid Anwar	1979
0305	Nasimuddin Syed	1974	0085	Masood Hasan Khan Rao	1979
0040	Dheera R. Kantiya	1975	0128	Shabbir Ahmad	1979

CIVIL			CIVIL		
Member #	Name	Grad Year	Member #	Name	Grad Year
0166	M Azfar Shakil Syed	1979	0396	Muhammad Hanif Samoo	1985
0298	Ejaz Uddin Siddiqui	1979	0408	Munir Ahmad	1985
0513	Mirza Arif Hussain	1979	0036	Muhammad Aslam Malik	1986
0034	Sarfaraz Gahothi	1980	0062	Sikander Abulhair	1986
0080	Mohammad Iqbal Khowaja	1980	0070	Muhammad Afzal Memon	1986
0088	Jalal Ahmad	1980	0171	Bashir Ahmed Bhutto	1986
0107	Azizullah Syed	1980	0223	Rashid Ahmed	1986
0108	Syed Afzal-ur Rehman	1980	0237	Khalid Hussaini	1986
0123	Latif Anwar Nizamani	1980	0274	Muhammad Altaf Butt	1986
0133	Zubair Ahmed	1980	0297	Hayat Muhammad	1986
0139	Tahir Ali Khan	1980	0466	Aijaz Hyder Qureshi	1986
0153	Syed Aftab Abidi	1980	0152	Aman Shabbir Siddiqui	1987
0201	Afaq Hussain Siddiqui	1980	0281	Muhammad Rashid	1987
0055	Mumtaz Ahmed Hashmi	1981	0495	Tariq Hameed Mirza	1987
0068	Anwer Mumtaz	1981	0069	Arshad H. Shaikh	1988
0074	Muhammad Furqan Ismail	1981	0161	Musharaf Hussain	1988
0076	M. Iqbal Mazhar	1981	0332	Syed Hashim Raza	1988
0086	Shams Uz Zaman	1981	0336	Arshad Jamil	1988
0197	Aslam Mirza	1981	0490	Mohammad Ameen	1988
0350	Muhammad Jawaid Khan	1981	0061	Tauseef Ahmed Shamsi	1989
0358	John Peter Gill	1981	0136	Naila Wasim	1989
0438	Muhammad Ateeq Ahmed	1981	0484	Syed Ejaz Rizvi	1989
0014	Shah Quarin Ahmad	1982	0494	Najeeb Ahmed	1989
0065	Muhammad Maqsood	1982	0498	Rashida khozema	1989
0163	Ahmed Nadeem	1982	0135	Nazli Khan	1990
0189	Arshad Iqbal	1982	0188	Iram Bukhari	1990
0198	Hashim Reza	1982	0203	Farzana Anbrene	1990
0230	Mohammad Ali Siddiqui	1982	0126	Nehal Siddiqui	1991
0415	Fatima Shakil	1982	0239	Junaid Akhter	1991
0509	Syed Khalid Munir	1982	0130	Muhammad Tahir Ayub	1992
0129	Syed Moeen Kazmi	1983	0248	Majid Wahab Khan	1992
0257	Salma Shakeel	1983	0428	Humera Ibad	1992
0295	Nadeem Ahmed	1983	0002	Fayyaz Siddiqui	1993
0390	Sajjad Ahmad Rasheed	1983	0018	Moin Khan	1993
0012	Talat Yasmin	1984	0021	Sadiq A. Pirani	1993
0032	Mansoor Mirza	1984	0060	Abdul Hafeez Shaikh	1993
0042	Arshad Azhar	1984	0067	Rafi Majeed	1993
0202	Ali Haider	1984	0093	Mazhar Abbas	1993
0229	Adnan Khan	1984	0149	Iqbal Mansoor Khan	1993
0273	Niaz Muhammad	1984	0168	Hafeez-ur Rehman	1993
0314	Syed Munawar Hussain	1984	0266	Atiqur Rehman	1993
0038	Masood Anjum Khan	1985	0319	Mujeeb Hyder Shah Musavi	1993
0087	Jehanzeb Khan	1985	0322	Nishat Fatima Naqvi	1993
0112	Imtiaz Ahmed	1985	0366	Muhammad Saleem Ahmed	1993
0388	Muhammad Iqbal Malim	1985	0422	Waqar Khan	1993

CIVIL			CIVIL		
Member #	Name	Grad Year	Member #	Name	Grad Year
0453	Waseem Jamal	1993	0275	Azmat Perveen	1998
0458	Nadia Zia	1993	0292	Obaid Qureshi	1998
0474	Farooq Uz Zaman Khan	1993	0303	Rozina Sethi	1998
0183	Asma Arefeen	1994	0356	Amir Ali	1998
0059	Abdul Waheed Shaikh	1995	0020	Vikram Dass Punshi	1999
0066	Zakiuddin Siddiqui	1995	0030	Sajjad Ali Shah	1999
0071	Kashif Shaikh	1995	0045	Mohammad Arif Siddiqui	1999
0092	Syed Farhat Abidi	1995	0125	Muhammed Adeel Sheikh	1999
0114	Muhammad Farhan	1995	0156	Syed Kashif Hussain	1999
0299	Jamil Iftikhar	1995	0324	Qamber Ali Wadia	1999
0431	Mahmood Zaman	1995	0348	Kashif Hussain	1999
0436	Muhammad Rashid	1995	0377	Syed Adnan Ahmed	1999
0461	Sadaf Zehra Jafri	1995	0432	Farah Mahmood	1999
0504	Mir Ghulam Kadir Talpur	1995	0480	Syed Sami-UI-Haque	1999
0099	Obaid- ur Rehman	1996	0100	Suboohi Obaid	2000
0328	Imran Nadir Jaffari	1996	0285	Muhammad Kashif	2000
0385	Saiful Arfin Syed	1996	0369	Ahmed Adnan Al Iftikhar	2000
0400	Owais Ahmed Khan	1996	0481	Shoaib Najam	2000
0075	Saima Gillani	1997	0439	Adeel Ahmed	2002
0347	Waseem Akhter	1997	0449	Saima Patel	2002
0370	Syed Zeshan Haider	1997	0478	Nazish Fatima	2002
0417	Humera Khatoun	1997	0373	Kashif Hussain Siddiqui	2003
0421	Aysha Ovais	1997	0457	Sarwat Jahan Siddiqui	2003
0455	Ghulam Murtaza	1997	0260	Uzma Syeda Khalil	2004
0031	Muhammad Ali Ahsan	1998	0341	Tilehan Nabeel Shah	2005
0079	Muhammad Samin Khan	1998	0485	Muhammad Arsalan Khan	2005
0141	Adnan Ghani	1998	0283	Mahmood Pasha	2007
0142	Yasmin Riaz	1998	0363	Madiha Naz Fatima Zaidi	2008
0173	Mohammad Jehangir Rehman	1998	0452	Shajeah Nazar Abbas	2009
0176	Muhammad Razi Anfas Khan	1998	0460	Muhammad Fahad Ansari	2010
0262	Faisal Zafar Syed	1998			

COMPUTER SYSTEMS			COMPUTER SYSTEMS		
Member #	Name	Grad Year	Member #	Name	Grad Year
0111	Farrukh Muhammad Rizvi	1989	0241	Ali Ahmad Siddiqui	1998
0510	Muhammad Jaseemuddin	1989	0359	Hasan Shaheer Khan	1998
0397	Suhel Anjum	1990	0259	Lubna Rauf	1999
0503	Asim Hussain	1992	0427	Shaikh Muhammad Ikram	2004
0200	Syed Iftikhar Ali	1995	0389	Muhammad Kashif Munir	2010
0121	Waseemul Haque	1997			

ELECTRONICS			ELECTRONICS		
Member #	Name	Grad Year	Member #	Name	Grad Year
0160	S.Shaukat Islam Rizvi	1968	0290	Muhammad Ifrahim Khan	1989
0158	Nasir Azam	1978	0404	Asif Mir	1990
0190	Muhammad Wasim Qureshi	1981	0382	Syed Azhar Ali Shah	1991
0413	Iqbal Jameel	1981	0418	Adnan Ahmed	1992
0050	Nishat A. Malik	1983	0401	Nusrat Mehar	1993
0406	Mohiuddin Ahmed	1983	0512	Javed Khan	1993
0145	Akbar Raza Syed	1985	0221	Irfan Shaikh	2000
0131	Zia Naqvi	1986	0245	Mir Yazdan Ali	2007
0206	Ahmad Mansur Khan	1986	0420	Arsalan Tariq Keen	2007
0349	Irfan Mukhtar	1986	0451	Ursala Nazar Abbas	2007
0320	Amer Nishat	1988			
0222	Saad Azim	1989			

COMPUTER SCIENCE & IT			INDUSTRIAL & MANUFACTURING		
Member #	Name	Grad Year	Member #	Name	Grad Year
0444	Javed Rahman	1980	0306	Muhammad Aftab Alam	2007
0442	Khalid Nazim	1992			
0311	Syeda Fakeha Anwar	2008			

MECHANICAL			MECHANICAL		
Member #	Name	Grad Year	Member #	Name	Grad Year
0025	Zaheer Zuberi	1963	0138	Arif Syed	1975
0212	Waseef Ur Rahman	1966	0172	Iftikhar Mohammad Qureshi	1975
0009	Rehan Akhtar	1969	0325	Tayyab Shakil	1975
0011	Mahmood Manzoor	1969	0499	Izhar Hussain Qazilbash	1975
0232	Aftab Ahmad	1969	0113	Tanvir Akhtar	1976
0315	Syed Sibte Kazim	1969	0182	Mohammad Tayeb	1976
0164	Shiraz Rehmani	1970	0284	M Zaheeruddin Siddiqui	1976
0293	Shakil Hamid	1970	0048	Ghaus M. Rizvi	1977
0102	Syed Itrat Hussain	1971	0243	Asghar Hussain Mirza	1977
0354	Najmul Haq	1972	0026	Syed Manzar Zaidi	1978
0429	Moin Ahmed Khan	1972	0082	Osaid Syed	1978
0511	Sajid Pervez	1973	0094	Muhammad Mehdi Khoja	1978
0058	Syed Kafil Hashmi	1974	0174	Moinuddin Syed	1978
0132	Islam Nabi Khan	1974	0179	Muhammad Khaleeq Najmi	1978
0254	Imran Matanat Husain	1974	0215	Syed Anwar Ali	1978
0395	Samiur-Rahman	1974	0219	Ali Shabbir	1978
0437	Muhammad Shariq Siddiqi	1974	0261	Sabbehe Ur Rehman	1978
0134	Javed Akhtar	1975	0267	Muhammad Rizwan Rashid	1978

MECHANICAL			MECHANICAL		
Member #	Name	Grad Year	Member #	Name	Grad Year
0278	Jamil I Malik	1978	0339	Iftikhar Ahmed	1986
0301	Muhammad Waseem Khan	1978	0340	Farrukh Shahab Siddiqi	1986
0327	Amin Jan Mohammad	1978	0470	Akhtar Hussain	1986
0331	Waseem Usmani	1978	0471	Syed Wassaf Akhtar	1986
0044	Ghulam Hussain Malik	1979	0472	Talib Mujeer Zaidi	1986
0120	Muhammad Ashraf Adamjee	1979	0205	Nadim Kamil	1987
0122	Samir Dossal	1979	0304	Muhammad Ashraf	1987
0157	Jawed Hameedullah	1979	0374	Syed Attique Shafaat	1987
0159	Aga Hussain	1979	0116	Waqar Gul	1988
0384	Salim Channa	1979	0228	Muhammad Munawar	1988
0392	Jawaid Iqbal	1979	0321	Kamran Ahmed	1988
0459	Majid Hasan	1979	0411	Khalid Qasim Malik	1988
0487	Muhammad Yaseen	1979	0454	Kaleem Muhammad	1988
0101	Naushad Ahmed Ansari	1980	0493	Khalid Hussain	1988
0147	Syed Masroor Hassan	1980	0502	Azharuddin Syed Ahmed	1988
0214	Muhammad Najeeb Khan	1980	0252	Masood Viqar Ahmed	1989
0217	Irfan Ahmed Brohi	1980	0445	Wasimuddin M Syed	1989
0286	Shahid Nawaz Mirza	1980	0514	Shakir Ahmed	1989
0289	Nazir Haider	1980	0184	Muhammad Rafiq	1990
0407	Syed Sanaul Haque	1981	0277	Shehzad Khan	1990
0151	Talat Warsi	1982	0084	Anis Muhammad	1991
0177	Owais Abbas	1982	0287	Zafar Ahmed	1991
0412	Syed Shahid Ali	1982	0300	Tahir Aziz	1991
0456	Syed Afsar Imam	1982	0323	Shafiq Ur Rahman	1991
0476	Shahryar Abesteh	1982	0365	Zaki Ahmed	1991
0146	Ali Adil Khan	1983	0394	Muhammad Azimuddin	1991
0150	Saleem Ahmed	1983	0426	Nadim Ahmed	1991
0218	Mansoor M Baig	1983	0447	Muhammad Hamid Sultan	1991
0276	Tahir Hussain	1983	0448	Asif Sani	1991
0308	Mirza Abdul Qadir	1983	0501	Amir Bhatti	1991
0343	Nudrat Ullah Usmani	1983	0196	Sohail Ateeq	1992
0344	Qamar Saleem Hanafi	1983	0434	Syed Shahid Ali	1992
0403	Badar Sohail Khan	1983	0446	Mehdi Abbas	1992
0409	Taher Ali	1983	0468	Kashif Ali	1992
0419	Syed Aslam Ali	1983	0003	Tariq Usman	1993
0334	Imtiaz Ahmad	1984	0155	Syed Sarfaraz Hasan	1993
0361	Tanveer A.Shah	1984	0310	Saiful Hasan	1993
0393	Muhammad Ateeq Wani	1984	0224	Salman Sher	1994
0467	Tanvir Ahmed	1984	0265	Muhammad Munowar Alam	1994
0227	Asad Asghar	1985	0368	Aftab Manzar	1994
0240	Syed Zain Askari Rizvi	1985	0072	Rehan Muhammad	1995
0380	Masood Hassan	1985	0073	Nasir Ahmed Syed	1995
0398	Pervez Nooruddin	1985	0089	Syed Abdal Ahmed	1995
0489	Syed Ehtesham Ahmed	1985	0148	Mustafa Kamal	1995
0253	Imran Shah	1986	0180	Yousuf Kamal Zuberi	1995

MECHANICAL			MECHANICAL		
Member #	Name	Grad Year	Member #	Name	Grad Year
0181	Nasir Mahmood Khan	1995	0268	Shahnawaz A Khandwala	1998
0192	Azmat Mujeeb	1995	0317	Shah Faridi	1998
0193	Saifuddin Zainuddin	1995	0391	Adil Manzoor	1998
0194	Manawer Anwar-ul Hassan	1995	0410	Faisal Siddiqui	1998
0255	Syed Khalid Akhtar	1995	0475	Akram Muhammad	1998
0263	Naushad Ahmed	1995	0316	Muhammad Abdul Haris	1999
0264	Imran Farid Syed	1995	0430	Muneer Ahmed Abid	1999
0302	Syed Kashif Akhtar	1995	0441	Rashid Jamal	1999
0318	Anis Ahmed	1995	0507	Mujtaba Husnain	1999
0333	Nadeem Malik	1995	0402	Jawad Haroon Khan	2000
0250	Muhammad Jibran Hashmi	1996	0500	Mirza Muhammad Munir Baig	2000
0091	Athar Imam	1997	0364	Asfia Asad Ali	2001
0097	Shahid Masood Khan	1997	0375	Syed Haider Ali	2001
0220	Arshad Shaikh	1997	0376	Mirza Mukarram Irshad	2001
0249	Syed Salman Ali Bukhari	1997	0464	Wasi Haider	2002
0483	Syed Zia Abass Rizvi	1997	0251	Nawaz Alam	2006
0095	Syed Ali Zamin	1998	0282	Daaniyal Kalim	2006
0213	Imran Khan	1998	0378	Moiz khan	2006
0234	Shamsul Arfeen	1998	0381	Furqan Ahmad Khan	2008

ELECTRICAL			ELECTRICAL		
Member #	Name	Grad Year	Member #	Name	Grad Year
0022	Syed Hussain Haider	1966	0329	M Mubashir Aslam Quidwai	1974
0006	Syed Abrar Ali	1969	0414	Uzer Vora	1974
0010	Mansoor Kureshy	1969	0462	Shakil Omar	1974
0165	Ghulam Shabbir Chishty	1969	0049	Muhammad Alim	1975
0195	Khalil Allawala	1969	0372	Javaid Hanif	1975
0226	Mansoor Imam	1969	0335	Syed Tarique Niaz	1976
0167	Jabbar Uzzaman Khan	1971	0450	Nazar Abbas	1976
0077	Shehzad Ahmed	1972	0054	Badruz Zaman	1977
0199	Mansoor Muhammad Niyaz	1972	0104	Najmul Qureshi	1977
0258	Munawer Rafiq Qureshi	1972	0204	Muhammad Farooq	1977
0355	Rahat Ali Khan	1972	0386	Muhammad Ilyas Siddiqui	1977
0001	Syed Naseeruddin	1973	0023	Muzaffar A. Khan	1978
0005	Abid Asghar	1973	0027	Anwar Nazar Ali	1978
0033	Mazahir Akbar	1973	0043	Ishtiaq Ahmad	1978
0051	M. Sharif Ahmed	1973	0170	Muhammad Jamil Khan	1978
0506	Arshad Javed	1973	0127	Shaikh Muhammad Rizwan	1979
0028	Shams Afroz	1974	0405	Arshad Siddiqui	1980
0037	Jawaid Inam	1974	0440	Abdul Ghani Jan	1981
0056	Syed Amir Ur Rehman	1974	0515	Khurshid Ansari	1981
0064	Habib Khan	1974	0090	Syed Ishrat Hasan	1982
0083	Karamat Ullah	1974	0169	Nadeem Akhtar	1982
0162	Mohammad Khalid	1974	0247	Jawed Saeed Memon	1982

کینیڈا

(ایک سو پچاسویں سالگرہ)

یہ خوابوں کا مرکز ہے میرا یقین ہے
مرا آسماں اب یہی سرزمین ہے
یہی دلیس دنیا میں سب سے حسین ہے
جو جنت ہے وہ بھی یہیں پر کہیں ہے

ہمیں اب خدا بھی یہیں پر ملے گا
یہ صدیوں سے ہے اور ہمیشہ رہے گا

فلاحی نظامِ حکومت ہے ایسا
نہ ہے فکرِ فردا نہ ہے فکرِ فاقہ
بڑے زعم سے آج دعویٰ ہے میرا
نہیں کوئی حاکم ٹروڈو کے جیسا

اسی چاند زادے سے یہ گھر بچے گا
یہ صدیوں سے ہے اور ہمیشہ رہے گا

پدر جیسے کوئی متانت ہے اس کی
کہ آغوشِ مادر سی راحت ہے اس کی
لگانے کی سینے سے عادت ہے اس کی
مثالی زمانے میں چاہت ہے اس کی

یہ لے کر دعاؤں کو پھولے پھلے گا
یہ صدیوں سے ہے اور ہمیشہ رہے گا

یہ اشکوں کو پونچھے دکھوں کو منائے
یہاں پر کسی کو نہ کوئی ستائے
گلے سے لگاتا ہے کوئی بھی آئے
جو بانہوں میں آئے وہی گنگنائے

وطن یہ مرا چاند سورج بنے گا
یہ صدیوں سے ہے اور ہمیشہ رہے گا

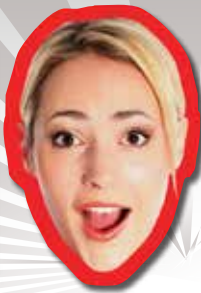
سبقِ حوصلے کا تو ٹیڑھی سے پائیں
بھاریں ہماری دھنیں گنگنائیں
ہمیں برفِ ہاکی میں شعلے جلائیں
ہماری بھی جھیلیوں میں پریاں نہائیں

زمانے میں مہیلا کا جھنڈا گڑے گا
یہ صدیوں سے ہے اور ہمیشہ رہے گا

زمانے میں تیرا رہے بول بالا
قلم میں نے تیرے لیے ہے سنبھالا
بناؤں گا لفظوں کی ایسی میں مالا
جو کر دے گی اردو زباں میں اُجالا

سدا نورِ اختر کا پھیلا رہے گا
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