

Civil and Environmental Engineering Department Newsletter

2022 - 2023

Newsletter Editors:
Mrs. Maryam Laram
Dr. Alaa Al Hawari
Dr. Mohammed Hussein



In this Issue >>>	Page No.
Message from Head of the Department	2
Department News	3
Industrial Interaction	11
Workshop	12
Changing the Department's name	13
Introducing a new Concentration in Environmental Engineering	13
Events	14
Senior Design Projects	15
Outreach Activities	19
Media Publicity	20
Subject Ranking	21
Student Success Story	22
External and Internal Grants	23
Faculty Awards and Achievements	25
College of Engineering End of year Ceremony	27
Departing Faculty Members	28

Message from Head of the Department

Dr. Mohammed Hussein

BSc (Hons) PhD (Cantab) MIIAV PGCHE FHEA



I would like to welcome the readers to the newsletter of the **Department of Civil and Environmental Engineering** at the College of Engineering in Qatar University for the academic year 2022-2023. This is the first time of presenting the newsletter **under the new name of the department** which has been recently approved by the university to replace the name of Civil and Architectural Engineering. This supports the departmental's significant engagement in the area of Environmental Engineering, which comes along with another major news for the department in **approving the Concentration program in Environmental Engineering**. The newsletter presents the main activities and achievements during this academic year, which has witnessed a continued success in all domains of teaching, research and service to the university and the community.

During the year 2022-2023, the Department continued the effort to develop its programs and support its students. The Department went through a **successful ABET accreditation visit in Fall 2022** for the undergraduate program in Civil Engineering. It also received a renewal of **the 17025 ISO certification** of the lab testing in Construction Materials. The Department also continued its special attention to the topic of Engineering Education including implementation and publication in this field.

The main highlight in research is maintaining the position **in the top 151-200 of the QS subject ranking** for the year 2023 after joining the list for the first time in the year before. Furthermore, the position in subject ranking has been maintained among **the top 151-200 of Shanghai subject ranking**. **Four members of the Department were listed in the 2% highly cited of scientists** in the world, published in October 2022. One of the department members **won the British Geotechnical Association Award for 2022** case studies. The department's students **won several university awards in the academic year 2022-2023** from QU and QNRF.

The Department continued its strong effort in outreach and interaction with the industry. The department **attracted funding of more than 2.5 Million Qatari Riyals** as direct industrial funding during the academic year 2022-2023, besides other funds from the university and QNRF. The major highlight of industrial interaction is **the huge success in organizing the 2nd International Conference on Civil Infrastructure and Construction**. The Department also continued the significant interaction with the industry including the recruitment of **Ashghal Chair**, the continuing interaction with **Qatar Rail** including **2 new industrial projects** and serving of academics in joint committees, besides **supporting the Ministry of Environment and Climate Change in different studies**. The department also continued its outreach effort through its program for promotion of Civil Engineering in the visits to the High Schools in Qatar besides supporting of a number of students' projects for the schools.

I hope the newsletter gives you a good idea about the Department's activities and news, and I hope you enjoy reading it.

Department News



The CEE Department with support from the College of Engineering made significant success in the organization of the 2nd International Conference on Civil Infrastructure and Construction from the 5th to the 8th of February 2023. The conference was held in Qatar University under the umbrella of the 2nd World Congress of Engineering and Technology (WCET 2023) under the patronage of HE the Prime Minister and Interior Minister Sheikh Khalid bin Khalifa bin Abdulaziz Al-Thani.



In his speech, QU President Dr. Hassan Al-Derham said “Qatar made unprecedented progress in developing infrastructure and construction to meet the country's vision for the year 2030, and the whole world witnessed this great development during the 2022 World Cup”



The conference received over 400 participations from inside and outside Qatar. The conference received over 200 conference papers (to be published in the Conference Proceedings by Qatar University Press) and was accompanied by large exhibition by the major stakeholders in the field of infrastructure and construction in Qatar. The conference was organized by Qatar University, the Public Works Authority (Ashghal), the Ministry of Municipality, and the Ministry of Environment and Climate Change. The conference was sponsored as Platinum sponsors by Qatar General Electricity & Water Corporation (Kahramaa), Ariane Real Estate, and Qatari Diar.





The CIC conference was also sponsored by QRDI Council of Qatar Foundation as research council sponsor. It was also sponsored by PORR as Silver Sponsor. The conference was supported by large number of professional organizations: Qatar Society of Engineers, the American Society of Civil Engineers (ASCE), the Institute of Civil Engineers (ICE), the Royal Institute of Chartered Surveyors (RICS), the Lean Construction Institute – Qatar, Earthna, Engineers Australia, Chartered Institute of Building, and the American Concrete Institute (ACI) – Qatar Chapter. The conference had four different themes with one area managed by the Department of Architecture and Urban Planning. The conference had high quality keynote speakers from top international institutions beside high profile executive speakers from the key stakeholders in Qatar comprising of Qatar University, the Public Works Authority (Ashghal), the Ministry of Municipality, and the Ministry of Environment and Climate Change, Qatar Rail, and the Supreme Committee for Delivery & Legacy.



Keynote Speaker:



Maria Lehman
ASCE 2023 President

Presentation Title: Engineering the Future

Date & Day: February 7th, 2023 (Tuesday)

Anil Sawhney
Director of the Infrastructure Sector, Royal Institution of Chartered Surveyors (RICS)

Presentation Title: Industrialized Construction: Megatrends shaping the future of construction

Date & Day: February 6th, 2023 (Monday)



Lauri Koskela
Professor of Construction and Project Management at Huddersfield University

Presentation Title: The continuous evolution of Lean Construction - what next?

Date & Day: February 6th, 2023 (Monday)



Rafat Siddique

Dean of Research and Sponsored Projects & Senior Professor of Civil Engineering at Thapar Institute of Engineering and Technology

Presentation Title: Utilization of Waste Materials and Industrial By-Products in the Development of Sustainable Greener Concrete

Date & Day: February 5th, 2023 (Sunday)



Robert Cervero

Professor emeritus of City & Regional Planning, Berkeley University. Director of the University of California Transportation Center & the Institute of Urban and Regional Development

Presentation Title: Transit Oriented Development in Disruptive Times

Date & Day: February 7th, 2023 (Tuesday)

Armistead Russel

Howard T. Tellepsen Chair, Regents Professor of Civil and Environmental Engineering, Georgia Tech

Presentation Title: Integrating Satellites and Models for Air Quality and Health Analyses

Date & Day: February 5th, 2023 (Sunday)





Executive Speakers:



Eng. Salem Mohd Al-Marri
Manager of Technical Office, Public Works Authority (Ashghal)

Date & Day: February 5th, 2023 (Sunday)



Dr. Khalid Naji
Dean of College of Engineering, Qatar University

Date & Day: February 5th, 2023 (Sunday)



Eng. Ibrahim Abbas
Director of Infrastructure Planning Department, Ministry of Municipality

Date & Day: February 5th, 2023 (Sunday)



Eng. Jassim Al-Ansari
Chief of Program Delivery, Qatar Rail)

Presentation Title: Buliding a Modern Metro System (The Challenges and Sollutions of the Doha Metro Phase 1)

Date & Day: February 6th, 2023 (Monday)



Dr. Eng. Mohammed Saif Al-Kuwari
Assistant Undersecretary, Environmental Expert and Engineering Consultant, Ministry of Environment and Climate Change

Presentation Title: Characterization of Sewage Sludge and Municipal Solid Waste for Use as Cementitious Materials

Date & Day: February 6th, 2023 (Monday)



Eng. Bodour Almeer
Sustainability Executive Director at the Supreme Committee for Delivery & Legacy

Date & Day: February 8th, 2023 (Wednesday)

Part of Honoring the Hosts and Speakers



Industrial Interaction

The Department continued its significant effort in interacting with the industry in the academic year 2022-2023. The main features of this interaction are:

- The Department successfully organized the 2nd International Conference on Civil Infrastructure and Construction in February 2023 in collaboration with Ashghal, the Ministry of Municipality and the Ministry of Environment and Climate Change. The conference was attended by over 400 participants from inside and outside Qatar with major sponsorship from the industry in Qatar and support of international professional institutions. The conference invited high profile international keynote speakers and top executive speakers from Qatar. The conference proceedings to be published soon by Qatar University Press.
- The Department recruited Ashghal Chair in the area of usage of recycled materials in infrastructure projects. Prof. Ezio Santagata from Politecnico di Torino joined the Department in Spring 2023. Since his start at Qatar University, he developed strong connections with Ashghal and currently working in support of different departments in Ashghal besides supporting the undergraduate program in Civil Engineering at Qatar University. Prof. Santagata also developed new collaboration with the Ministry of Municipality besides connecting with a number of international companies dealing with the area of recycling in Qatar.
- The Department continued the interaction with Ashghal and benefited from support of the Quality and Safety Department of Ashghal in the inter-lab exercise. This exercise has been useful to the departmental effort in developing the labs and ensuring the quality of their testing.
- The department continued the strong collaboration with Qatar Rail which resulted, among other activities, in the development of new research projects as follows:
 - Qatar Rail funded project, Development of geotechnical assessment charts for assets within Railway Protection Zones in Doha, LPI: Dr. Mohammed Elshafie, PI: Dr. Hisham Eid. Value 238,200 USD.
 - Qatar Rail funded project, Prediction and attenuation of ground-borne noise and vibration in buildings, LPI: Dr. Mohammed Hussein, PI. Dr. Jamil Renno. Value 204,000 USD.
- The department continued the strong collaboration with the Ministry of Environment and Climate Change. Two academics from the Department, Dr. Alaa Al-Hawari and Dr. Mohammed Elshafie supported studies of the ministry.

Workshops



Eng. GARY PEACH

BSc (Hons) CEng FICE

Project Manager - Mott MacDonald-Qatar
Gary Peach is Project Manager for Mott MacDonald in Qatar. Over the last 40 years Gary has worked in numerous Civil Engineering and Mining project around the world. Specializing in underground infrastructure for Storm water, Hydro, water conveyancing, transit, high-speed railways, sewerage and waste water, several of these projects from start until project completion. Many of these projects have been constructed in remote locations and in very difficult ground conditions requiring a full range of management skills to bring these projects to a successful completion.

THE DEPARTMENT OF CIVIL AND ARCHITECTURAL ENGINEERING INVITES YOU TO ATTEND THE INDUSTRIAL WORKSHOP ENTITLED

Musaimeer Pump station and outfall project – Design Construction and Operation

DAY & DATE: Wednesday, 26 October 2022, 06:00pm-07:00pm

VENUE: Online (Link will be shared upon registration)

SCHEDULE OF WORKSHOP:

06:00pm: Start of workshop

06:45pm: Q&A session

07:00pm: End

Scan for Registration



ABSTRACT

Musaimeer Pump Station and Outfall (MPSO) project area is located nearshore to the southwestern area of Doha, that has experienced rapid expansion of growth in recent years, with ongoing developments. The need to increase drainage capacity to accommodate storm water runoff and address flooding challenges has become the cornerstone in the development of the project. MPSO project organization comprises of Ashghal, Public Works Authority (PWA) project management team, Project Management Consultant (PMC) Mott MacDonald and HBK-PORR as the main Contractor. These entities work collaboratively to achieve and sustain high performance in health, safety, environmental (HSE), and sustainability management. MPSO is one of the unique infrastructure projects of Ashghal which aims to provide a sustainable solution for the discharge of surface and storm water in the State of Qatar. The project consists of three key features: a pumping station with a capacity of 19.7 m³/s, a 10 km long, 3.7 m internal diameter under seabed outfall tunnel, an offshore riser shaft and 84 port diffuser field.

The workshop will cover the critical construction works of the project, such as deep excavation, underground structural works, Tunnel Boring Machine (TBM) tunneling operation, offshore operation, and underwater construction of diffuser field.

For enquiries, please email civil@qu.edu.qa



DR. MUSTAFA MASHAL

Fulbright U.S. Scholar/Associate Professor

Mustafa Mashal is an Associate Professor and Director of the Structural Laboratories and the Disaster Response Complex in the Department of Civil and Environmental Engineering at Idaho State University in US. He is a Fellow of the Center for Advanced Energy Studies. Mustafa is currently a Fulbright U.S. Scholar in the Department of Civil and Architectural Engineering at Qatar University. He has a PhD in Civil Engineering from the University of Canterbury, New Zealand. Mustafa is a registered Professional Engineer in US and a Chartered/International Professional Engineer in New Zealand. His awards include the "2020 Alfred Noble Prize" from the American Society of Civil Engineers (ASCE) and the 2018 ASCE Southern Idaho Section "Outstanding Civil Engineer of the Year Award" among others. Mustafa has more than 10 years of consulting experience and serves on multiple standards committees in US. He has been part of over 100 publications, including two patents.

THE DEPARTMENT OF CIVIL AND ARCHITECTURAL ENGINEERING INVITES YOU TO ATTEND THE INDUSTRIAL WORKSHOP ENTITLED

Accelerated Bridge Construction and Innovative Seismic Resilient Technologies

DAY & DATE: Monday, 24 October 2022, 12:30pm-1:30pm

VENUE: BCR Building – Corridor I – Room I-111

SCHEDULE OF WORKSHOP:

12:30pm: Start of workshop

01:15pm: Q&A session

01:30pm: End

ABSTRACT

Accelerated Bridge Construction (ABC) has been a popular bridge construction technology among many Departments of Transportation (DOTs) in the United States. ABC's advantages include, but not limited to innovative planning, faster construction, less traffic disruption, better quality control, improved durability for bridge components, enhanced on-site safety, lightweight sections, less environmental impacts, and the use of prefabricated elements. There have been plenty of applications of ABC in non-seismic regions. However, application of ABC in seismic regions has been limited, mainly due to concerns about adequate structural performance of the connections between bridge components. This presentation covers recent applications of ABC in the United States, in particular in the State of Idaho. Some of the latest proposed seismic resilient technologies for ABC are discussed. Concepts for innovative connections between bridge substructure elements, accompanied by large-scale experimental validation and real-life applications are presented.

For enquiries, please email civil@qu.edu.qa

Changing the Department's name to *Civil and Environmental Engineering*

The Department is very pleased for the approval of proposal to change the Department name to become the Department of Civil and Environmental Engineering replacing the name of Department of Civil and Architectural Engineering. The university has approved the proposal in June 2023 and this change aligns the department with the international trend for departments teaching Civil Engineering to make further focus on Environmental Engineering and include this within the name. The change of name and inclusion of Environmental Engineering will support the department's effort in progressing its activities in this important area, which is recognized at the world level and the top governmental level, exemplified by the establishment of the Ministry of Environment and Climate Change in Qatar. The Department has started collaborating with the new ministry since the day of its establishment. A recent example of the collaboration is the joint effort in the organization of the International Conference on Civil Infrastructure and Construction in February 2023, with a theme in Environment and Climate Change. The change of name has been approved along with the approval of Concentration program in Environmental Engineering which is another example of major progress for the department in the area of Environmental Engineering.

Introducing a new *Concentration in Environmental Engineering*

The Department is very pleased for the approval of the new Concentration in Environmental Engineering in June 2023, which supports the departmental's strong activities in this important area in the discipline of Civil Engineering. The concentration in Environmental Engineering will be made available soon to students in the Department. The concentration will provide the students with a high-quality education that enables them to become better professionals in service to the Qatari society and to provide a strong foundation to pursue careers and graduate programs in environmental engineering. The concentration includes new courses such as Environmental Sustainability, Environmental Impact Assessment and Environmental noise and vibration.

Events

- Honoring civil engineering students by Dr. Mohammed Hussein the head of department for their volunteer work in the 2nd International Conference on Civil Infrastructure and Construction.



- Mr. Mohammed Trad, Cultural Affairs Specialist U.S. Embassy Doha, Qatar, visited Qatar University and met the Head of Civil and Environmental Engineering department.



Senior Design Project

Senior Design Poster Competition - Fall 2022:

The Senior Design –II Poster Competition Fall 2022 Contest was held on the 31st of Oct 2022. Students presented their projects to the Jury members as well as to internal and external examiners. Here are the details of the winners:

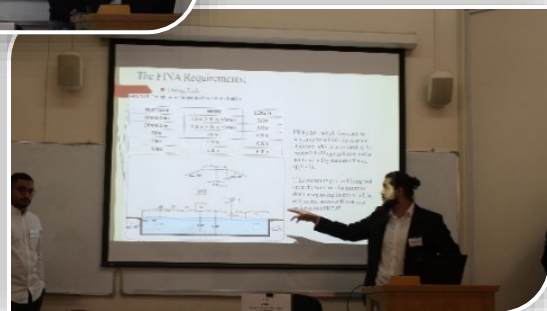
Group Number	Students name	Project Title	Main Supervisor
1 st	1	Kenan A. Alkhamri	Dr. Wael Alnahhal
	2	Mohamad S. Dib	
	3	Abdalla T. Farag	
	4	Hamidullah Umar Khan	
	5	Hadhal A. Alhathal	
2 nd	1	Omar Y. Albatarni	Dr. Vagelis Plevris
	2	Eyad A. Hamed	
	3	Abdullah A. Albatarni	
	4	Hasan H. Abuqaoud	
	5	Ahmed Madni Abashar	
3 rd	1	Yasser N. Megaly	Dr. Vagelis Plevris
	2	Tariq A. Shabaneh	
	3	Gomah A. Abougazar	
	4	Ahmed I. Hafez	



Senior Design –II Contest - Fall 2022:

The Senior Design –II Fall 2022 Contest was held on the 28th of Dec 2022. Students presented their projects to the Jury members as well as to internal and external examiners. Here are the details of the winners:

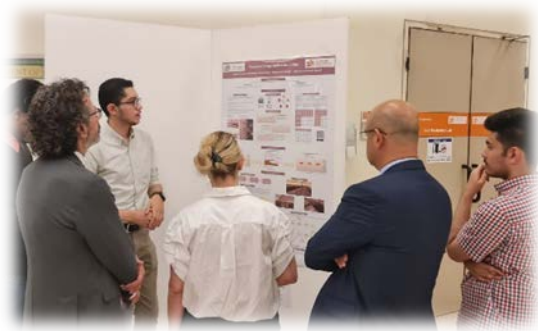
Group Number		Students name	Project Title	Main Supervisor
1 st	1	Yasser N. Megaly	Analysis and Design of a High-Rise Residential Building	Dr. Vagelis Plevris
	2	Tariq A. Shabaneh		
	3	Gomah A. Abougazar		
	4	Ahmed I. Hafez		
2 nd	1	Omar Y. Albatarni	Structural Analysis and Design of an Industrial Building	Dr. Vagelis Plevris
	2	Eyad A. Hamed		
	3	Abdullah A. Albatarni		
	4	Hasan H. Abuqaoud		
	5	Ahmed Madni Abashar		
3 rd	1	Kenan A. Alkhamri	Alternative Design Options and Life Cycle Assessment of Office Tower	Dr. Wael Alnahhal
	2	Mohamad S. Dib		
	3	Abdalla T. Farag		
	4	Hamidullah Umar Khan		
	5	Hadhal A. Alhathal		



Senior Design-II Poster Competition - Spring 2023

The Senior Design –II Spring 2023, Contest was held on the 10th of April 2023. Students presented their projects to the Jury members as well as to internal and external examiners. Here are the details of the winners:

Group Number	Students name	Project Title	Main Supervisor
1 st	1	Mohammed S. Mohammed	Usama Ali Ali Ebead
	2	Ahmed M. Ahmed	
	3	MohammedRaddi W. Khayal	
	4	Mohammed A. Khalid	
2 nd	1	Ahmad Alomari	Mohammed Zein Elabidin Babiker Elshafie
	2	Mohamed Said M. Kanaan	
	3	Moaz Meligy	
	4	Anas Durra	
3 rd	1	Muhammad E. Zidan	Mohamed Arselene Ayari
	2	Faisal Al Naemi	
	3	Khaldoon I. Mousa	



Senior Design –II Contest - Spring 2023:

The Senior Design –II Spring 2023 Contest was held on the 24th of May 2023. Students presented their projects to the Jury members as well as to internal and external examiners. Here are the details of the winners:

Group Number	Students name	Project Title	Main Supervisor
1 st	1 Mohammed S. Mohammed	Alternative design options for a bridge considering economic, environmental and other aspects	Usama Ali Ali Ebead
	2 Ahmed M. Ahmed		
	3 MohammedRaddi W. Khayal		
	4 Mohammed A. Khalid		
2 nd	1 Ahmad Alomari	Design of an Olympic Swimming Facility at Qatar University	Mohammed Zein Elabidin Babiker Elshafie
	2 Mohamed Said M. Kanaan		
	3 Moaaz Meligy		
	4 Anas Durra		
3 rd	1 Ahmad M. Alhomsy	Design of a Park & Ride facility for Al Doha Al Jadeda metro station	Deepthi Sadashiv Muley & Shahram Tahmasseby
	2 Ahmad M. Salehi		
	3 Abdirahman H. Ahmed		
	4 Abdirahman M. Askar		



Outreach Activities

The Department of Civil and Environmental Engineering organized several visits to high schools. Visits to Alandalus, Hassan Bin Thabit, Muhammad bin Abdul Wahhab, Musaab Bin Omair , Nasser bin Abdullah Al-Attiyah high schools were organized during the academic year 2022-2023. The visits aimed at giving detailed information about the Engineering Programs at Qatar University and to highlight the importance and roles of Civil Engineers in the society to high school students in Qatar.



Media Publicity:

An interview with Hayatuna program on Qatar TV with Dr. Mohammed Hussein and Dr. Alaa Al Hawari talking about the new Concentration in Environmental Engineering and changing the Department's name to Civil and Environmental Engineering.





SUBJECT RANKING



The Civil and Structural Engineering subject at the Department of Civil and Environmental Engineering maintained its rank in the top **151-200 of the QS World University Subject Ranking**



The Civil Engineering subject at the Department of Civil and Environmental Engineering maintained its rank in the top **151-200 of Shanghai Subject Ranking.**



STUDENT SUCCESS STORIES



- ✓ **Students working on UREP project under the supervision of Dr. Deepti Muley and Dr. Mohamed Kharbeche received third prize in the 14th Annual Undergraduate Research Experience Program competition organized by QNRF on the 18th of October 2022 in Weill Cornell Medicine Qatar.**

- ✓ **Abdel-Rahman Abu Shanab a PhD candidate at the CEE Department supervised by Dr. Wael Al-Nahhal won the first place for the Best Representative Image Competition (BRIO) for the year 2022. The winning photo was entitled "The Microstructure of Sustainable Concrete"**

- ✓ **Jamal Hannun a PhD candidate at the CEE Department supervised by Dr. Riyadh Al-Raoush won a prize at QU Arab IOT & AI Challenge organized by SIEED on the 6th of September 2022.**

- ✓ **Abdelrahman Abushanab the PhD student in Civil Engineering, supervised by Dr. Wael Alnahhal, won both the dissertation award and the 1st place in the graduate research awards for Sciences and Engineering on June 2023.**

- ✓ **Eng. Jamal Hannun, a PhD researcher in Prof. Riyadh Al-Raoush's research group, at the Department of Civil and Environmental Engineering at Qatar University, was invited to use the first Tomography beamline in the Middle East, "BEATS" at SESAME. He was selected among a group of the top 10 young scientists in the Middle East to receive hands-on training and be one of the first users of the tomography facility.**

External and Internal Grants

<i>Project Number</i>	<i>Project Title</i>	<i>LPI and PIs</i>
<i>UREP29-034-2-011</i>	Biofuel production from algal biomass using an economic and environmentally friendly	Alaa Al Hawari
<i>Student Grant</i>	Design Optimization of Truss Structures using Swarm Intelligence Methods	Vagelis Plevris
<i>CD-IRCC project</i>	Managed Aquifer Recharge (MAR) in Qatar: A Multiscale Investigation of Clogging of Qatari Groundwater Aquifers	Riyadh Al Raoush (LPI) Arslan Ayari (PI)
<i>CWSP22-C-0912-22044</i>	The 2nd INTERNATIONAL CONFERENCE ON CIVIL INFRASTRUCTURE AND CONSTRUCTION	Wael Alnahhal
<i>Student Grant</i>	Exploring the Potential of Blockchain Technology in Civil Engineering, Architecture and the Construction Industry	Vagelis Plevris
<i>QU Internal Grants, High Impact GRANT, Cycle 05</i>	Managed Aquifer Recharge (MAR) in Qatar: A Multiscale Investigation of Clogging of Qatari Groundwater Aquifer	Riyadh Al Raoush (LPI) Arslan Ayari (PI)
<i>Student grant</i>	Tensile characterization of sustainable fabric reinforced geopolymer matrix (FRGPM) in strengthening applications	Usama Ebead
<i>UREP29-022-2-009</i>	How is time pressure associated with driving performance? A driving simulator study on taxi drivers	Qinaat Hussain (LPI) Wael Alhajyaseen
<i>UREP29-029-5-002</i>	Analysis of Car Following Behavior Considering Heterogeneous Driving Population in Qatar: The Risk of Tailgating	Charitha Dias (LPI) Wael Alhajyaseen
<i>QUEX-TrafficTech-23/24</i>	Examining the Preference of Personnel Electric Vehicles such as e-scooters among Residents in the State of Qatar	Wael Alhajyaseen (LPI)
<i>QU internal grants, Collaborative grants</i>	Role of e-Scooters in Future Urban Mobility: Empirical Analysis and Modelling of Shared Space Users' Behavior and Safety	Charitha Dias (LPI) Wael Alhajyaseen
<i>QUST-2-CENG-2022-671</i>	Gender Effect on Microscopic Characteristics of Crowd Dynamics	Charitha Dias

<i>UREP 29-123-2-034</i>	Explainable machine learning-based efficient prediction tool for modeling of FRP-steel confined reinforced concrete columns and its applications	Usama Ebead
<i>QUCG-CENG-22/23-561</i>	Sustainable concrete using locally discarded Materials and Treated Domestic wastewater: Mechanical, Durability and Applications in RC Elements	Wael Alnahhal (LPI); Mohammed Elshafie (PI), Mohammed Irshidat (PI)
<i>QUEX – QatarRail – 22/23 – 3</i>	Development of Geotechnical Assessment Charts for assets within Railway Protection Zones in Qatar.	Mohammed Elshafie (LPI) and Hisham Eid (PI)
<i>QUEX-QatarRail-22/23-4</i>	Prediction and Attenuation of Ground-borne noise and Vibration in Buildings	Mohammed Hussein (LPI) and Jamil Renno (PI)

Faculty Awards and Achievements

- Dr. Mohammed Elshafie won the Case Studies Award for the year 2022, presented by the British Geotechnical Society.

London circular shaft construction case studies win BGA award



The British Geotechnical Association has given its 2022 Case Histories Award to authors Njemile Faustin, Mohammed Elshafie and Robert Mair for their “Case studies of circular shaft construction in London”. The British Geotechnical Association (BGA) received a total of 16 entries for the inaugural Case Histories Award. The BGA prizes sub-committee said they covered a broad range of geotechnical projects, making the selection of the winner a long and considered task. The judges agreed that the paper on “Case studies of circular shaft construction in London” represented an outstanding contribution to the

knowledge and experience of the UK geotechnical engineering profession. It rigorously compiled a review of circular shafts from 27 case studies from three major tunneling projects, providing a valuable database of surface settlement performance in an area of few previously well documented case studies, the judges said. Field observations of ground surface settlement were collected and assembled from different circular shafts recently constructed to give an indication of the magnitude of settlement in typical London Basin strata. The judges added that the genuinely useful database is presented in normalized charts to help the UK industry’s future tunneling and circular shaft projects make estimates of settlements due to circular shaft construction in London, with due consideration for different shaft geometries and construction methods.

- Four academics were listed from the CEE Department among the top 2% highly cited scientists for last year. These are Dr. Usama Ebead, Dr. Riyadh Al-Raoush, Dr. Hisham Eid, and Dr. Mohammed Hussein.



- Dr. Wael Alhajyaseen and Dr. Charitha Dias won the Best Poster Award for the category of Faculty & Postdocs in Qatar University Annual Research Forum, 3rd of October 2022.
- Dr. Charitha Dias and Dr. Wael Alhajyaseen won Best Poster Award for the category of FIFA World Cup 2022 Contribution in Qatar University Annual Research Forum, 3rd of October 2022.
- Dr. Charitha Dias won Best Poster Award in Social Sciences and Humanities discipline for Graduate Students category at Qatar University Annual Research Forum, 3rd of October 2022.
- Dr. Charitha Dias and Dr. Wael Alhajyaseen won the development of emerging virtual Reality (VR) system for analyzing Pedestrian Safety Perception on Road Infrastructure at Qatar University Annual Research Forum, 3rd of October 2022., October 2022.

College of Engineering End of year Ceremony on the 13th of June 2023

Eng. Siju Joseph received the College Dean's Award for services.



Dr. Wael Alnahhal was honored for his exceptional contribution and accomplishment at both the departmental and college levels.

Dr. Mustafa Mashal was acknowledged for his work at QU during last year as part of the Fulbright Scholarship.



Dr. Mohammed Hussein was acknowledged for his service as head of department during the period 2017-2023.



DEPARTING FACULTY MEMBERS

The Department of Civil and Environmental Engineering organized a farewell event for Eng. Anas Alsharo. The Department expressed its high appreciation and gratitude for his efforts during his work at Qatar University. Thank you Eng. Anas Alsharo wish you all the best in your future endeavors.



The Department of Civil and Environmental Engineering would like to thank Dr. Mustafa Mashal for his effort during the academic year he spent at the Department as Fulbright Scholar. Thank you Dr. Mustafa and we wish you all the best.

