



30 November 2023
Cinema, Multaqa Student Center, Education City

<https://www.qatar.tamu.edu/research/research-showcase>

Program

8 – 8:30 a.m.	Registration <i>Multaqa Ballroom 1</i>
8:30 – 8:45 a.m.	Welcome and Introduction Dr. César Malavé, Dean Dr. Patrick Linke, Senior Associate Dean for Research and Graduate Studies
8:45 – 9:45 a.m.	Major Success Stories “Upcycling Construction Materials for Resilient Infrastructure” Dr. Eyad Masad “CARGEN — From Early Research to Commercialization” Dr. Nimir Elbashir “Contributions of TAMUQ and MKOPSC to the Development of Process Safety in Qatar and the Middle East” Dr. Luc Véchet “High Impact R&D in Smart Grid — Examples of Success Stories” Dr. Haitham Abu-Rub
9:45 – 10:45 a.m.	Strategic Impact Initiatives Presentations TAMUQ Engineering Program Chairs “Supporting Qatar’s Hydrocarbon Industry Transition” Dr. Ahmed Abdel-Wahab, Chemical Engineering “AI-Driven Innovative Engineering Solutions for Qatar’s Economy and Society” Dr. Erchin Serpedin, Electrical and Computer Engineering “Smart and Sustainable Manufacturing — Advancing Qatar’s Resilience and Competitiveness” Dr. Marwan Khraisheh, Mechanical Engineering “Data Analytics for Enhancing the Energy Sector’s Exploration and Production Value Chain” Dr. Albertus Retnanto, Petroleum Engineering
10:45 – 11 a.m.	Coffee Break <i>Cinema Foyer</i>
Successful Industry Collaborations — Energy, Health and Resilience	
11 – 11:25 a.m.	Cluster No. 1 — Health “A Novel Exoskeleton System for the Rehabilitation of Patients with Upper Limb impairments” <i>Partner: Hamad Medical Corporation</i> Dr. Reza Tafreshi, Dr. Reza Langari (Texas A&M University, USA) “Classification of Cervix Cancer using Diffusion Weighted Imaging” <i>Partner: Hamad Medical Corporation</i> Dr. Othmane Bouhali Combined Q&A



11:25 – 11:50 a.m.	Cluster No. 2 – Energy [I] “Green Hydrogen Production” <i>Partner: Qatar Shell</i> Dr. Kakosimos Konstantinos , Dr. Ahmed Abdel-Wahab, Dr. Mohammed Al-Hashimi Dr. Dhabia Al-Mohannadi, Dr. Ahmed Abdala “Decarbonization and the Shipping Industry” <i>Partner: American Bureau of Shipping</i> Dr. Dhabia Al-Mohannadi , Dr. Ma'moun Al-Rawashdeh, Dr. Patrick Linke, Combined Q&A
11:50 a.m. – 12:05 p.m.	Coffee Break <i>Cinema Foyer</i>
12:05 – 12:30 p.m.	Cluster No. 3 – Resilience “Smart Asset Management System with Health Degradation Identification” <i>Partner: Qatar Shell</i> Dr. Ali Ghrayeb , Dr. Haitham Abu-Rub, Dr. Tingwen Huang “Productivity and Quality of Hydroponic Tomato Production in Qatar” <i>Partner:</i> <i>AGRICO</i> Dr. Bing Guo , Dr. Daniel Leskovar (Texas A&M AgriLife Center, USA) Combined Q&A
12:30 – 12:55 p.m.	Cluster No. 4 – Energy [II] “Outcrop to Pore-scale Investigations of Reservoir Heterogeneity within Offshore Carbonate Fields of the State of Qatar” <i>Partners: TotalEnergies Qatar, North Oil Company</i> Dr. Thomas Seers “Scaling of Multiphase Flow Pressure Loss and Multiphase Flow Metering in Annuli” <i>Partners: TotalEnergies Qatar, QatarEnergy LNG</i> Dr. Aziz Rahman* , Dr. Ibrahim Hassan, Dr. Rashid Hasan (Texas A&M University, USA) Combined Q&A
1 – 1:30 p.m.	Panel Discussion Featuring National Leaders from Industry to Discuss Industry-Academia Interactions Dr. Yousuf Abdulla Rebeeh , Chief Engineering Officer, Qatar Petrochemical Company (QAPCO) Dr. Lina Rueda , R&D and Innovation Manager, Qatar Shell Research and Technology Center (QSRTC) Dr. Muhammad N. Ibrahim , Advisor, Field Development Planning, SLB Mourad Elmaalaoui , Chief Technology Officer, Rheinmetall Barzan Advanced Technologies
1:30 – 3 p.m.	Networking Lunch <i>Orange Hall</i>