



Conference Program

Conference Day 1

Tuesday, December 27th, 2022

Location: Ain Shams University, Faculty of Medicine, Al Mahalawy Building

From	To	Event	Location
3:00 PM	4:00 PM	Registration	TBD
4:00 PM	4:05 PM	Dr. Mohamed Attalla Conference Chair, City University of New York	
4:05 PM	4:10 PM	Dr. Mohamed Hegab California State University AEAS President	
4:10 PM	4:15 PM	Dr. Ali Masoud (Online) Director of Egyptian Cultural Office, Washington	
4:15 PM	4:25 PM	Dr. Rami Galal, Chair, the External Affairs Committee, Egypt Senate	
4:25 PM	4:35 PM	H.E. Ambassador Howayda Essam (Online) Egypt Council General, New York	
4:35 PM	4:45 PM	H.E. Dr. Mahmoud Elmetini President, Ain Shams University	
4:45 PM	4:55 PM	H.E. Ambassador Suha Gendy Minister of Immigration and Egyptians Abroad	
4:55 PM	5:05 PM	H.E. Dr. Ayman Ashour Minister of Higher Education and Scientific Research	
5:05 PM	5:15 PM	Recognitions	
5:15 PM	5:30 PM	Dr. Salah Hassan George Washington University The Future of Eco-Smart Cities and the Transformation of Universities	
5:30 PM	5:50 PM	Dr. Ayman Elbaz University of Louisville, USA "Role of Big Data and AI in Personalized Medicine"	
5:50 PM	6:10 PM	Dr. Adel Elmaghraby University of Louisville, USA "Technology Trends for Behavioral Health"	
6:10 PM	6:30 PM	Dr. Mohamed Elmasry University of Waterloo, Canada "Can Egypt join the world of manufacturing microchips?"	
6:30 PM		Networking	

**49th Annual International Conference
for the Association of Egyptian American Scholars in Partnership with Ain Shams University**



Conference Day 2
Wednesday, December 28th, 2022
Location I Hub

From	To	Event	Location
8:00 AM	9:00 AM	Registration	TBD
Plenary Session (9:00 AM – 11:00 AM) Moderator: Dr. Tarek Saadawi, City University of New York			
9:00 AM	9:20 AM	Plenary Talk: Alaa E. El-Sharkawy Lawrence Technological University, USA “Engineering Education and Future Opportunities in the Development of Hybrid and Electric Vehicles.”	
9:20 AM	9:40 AM	Plenary Talk: Dr. Moeness Amin Villanova University, USA “Defining and Building the Engineering Workforce of the Future.”	
9:40 AM	10:00 AM	Plenary Talk: Dr. Ayman Mossalam University of California, USA “Next Generation Scada for Disaster Mitigation of Water & Wastewater Network Infrastructure.”	
10:00 AM	10:20 AM	Plenary Talk: Dr. Ahmed Mohamed and Dr. Mohamed Attalla City University of New York, USA “Power Grid Decarbonization and Modernization: The New York City Case.”	
10:20 AM	10:40 AM	Plenary Talk: Dr. Moatassem Abdallah University of Colorado, USA “Electricity Peak Shaving for Commercial Buildings using Machine Learning and Vehicle to Building (V2B) System.”	
10:40 AM	11:00 AM	Plenary Talk: Dr. Khaled Elgazzar Ontario Tech University, Canada “Internet of things recent Evolutions and Scientific applications”	

49th Annual International Conference
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11:00 AM	11:15 AM	Coffee Break	
Round Table Discussion (11:30 AM – 1:00 PM) Ain Shams University Leadership and North American Delegates			
1:00 PM	1:30 PM	Break	
Plenary Session (1:30 PM – 3:10 PM) Moderator: Dr. Iman Abou Elfetouh, Rutgers University			
1:30 PM	1:50 PM	Plenary Talk: Dr. Naser Elsheimy University of Calgary, Canada “Navigation Technologies for Future Autonomous Vehicles.”	
1:50 PM	2:10 PM	Plenary Talk: Dr. Hanaa Rezk Smith MacCoy & Associates, California, USA “Decent Life Initiative for A Climate Resilient Africa: A Case Study”	
2:10 PM	2:30 PM	Plenary Talk: Dr. Elsayed Elbeshbishy Toronto Metropolitan University, Canada “Organic Wastes: Is It Really WASTE?.”	
2:30 PM	2:50 PM	Plenary Talk: Dr. Ahmed Mohamed and Dr. Mohamed Ali City University of New York, City College, USA “On the Use of Wayside Energy Storage to Rescue Subway Trains During Power Outages”	
2:50 PM	3:10 PM	Plenary Talk: Dr. Alaa E. El-Sharkawy Lawrence Technological University, USA “Thermal Management and Development of Electric Vehicles for Improved Environmental Quality”	
3:10 PM	3:50 PM	Lunch	
Plenary Session (3:50 PM – 5:30 PM) Moderator: Dr. Mohamed Aziz, University of Louisville			

49th Annual International Conference
for the Association of Egyptian American Scholars in Partnership with Ain Shams University



3:50 PM	4:10 PM	Plenary Talk: Dr. Adel El shahat Purdue University, USA “Sustainable E-mobility Transportation Feasibility Study for Integrated Solar Roads with Wireless Charging and Applicability of Vortex Bladeless”	
4:10 PM	4:30 PM	Plenary Talk: Dr. Mohamed Elhalwagy Pioneer Food Consulting, Toronto, Canada “Technologies to Help Make the Food System Carbon Neutral”	
4:30 PM	4:50 PM	Plenary Talk: Dr. Ashley Ansara Regency holding, Medical Development, Florida, USA “Privatization and Foreign Debt Equity Swab (FDES) is the Key to Solve Egypt Economic Challenges”	
4:30 PM	4:50 PM	Plenary Talk: Dr. Mohamed Aziz Professional Psychiatric Services, USA “UAV mapping in support of high throughput phenotyping”	
4:50 PM	5:10 PM	Plenary Talk: Dr. Tarek Sayed University of Britch Colombia, Canada “Towards A Sustainably Safe Urban Network: The Role of Advanced Technologies and Big data”	
5:10 PM	5:30 PM	Networking	



Conference Day 3
Thursday, December 29th, 2022

I-HUB

From	To	Event	Location
Plenary Session (9:00 AM – 11:20 AM) Moderator: Dr. Ahmed ElSawy			
9:00 AM	9:20 AM	Plenary Talk: Dr. Adel El Shahat Purdue University, USA “Cost-effective AI-Power Conversion Framework for Hydrogen Generation based on Waste-to-Energy Integrated System.”	
9:20 AM	9:40 AM	Plenary Talk: Dr. Iman Abou Elfetouh Rutgers University, USA “Bloom’s Taxonomy.”	
9:40 AM	10:00 AM	Plenary Talk: Dr. Gamal El Afandy Tuskegee University, USA “Identifying Adaptation Strategies for Mitigating Climate Change Impacts on Soybean Yields: Case Study from Alabama, USA.”	
10:00 AM	10:20 AM	Plenary Talk: Dr. Ahmed ElSawy Tennessee Technological University, USA “Improving the Yield of Biodiesel Production Using Waste Vegetable Oil Considering the Free Fatty Acid Content.”	
10:20 AM	10:40 AM	Plenary Talk: Dr. Tarek Saadawi City University of New York, City College, USA “Transpacific Testbed for Real-Time Cybersecurity Experimentation	
10:40 AM	11:00 AM	Plenary Talk: Dr. Mohamed Hegab California State University, USA “Construction Projects: Creating a Holistic Performance Index”	
11:00 AM	11:20 AM	Plenary Talk: Dr. Ayman Habib Purdue University, USA “UAV mapping in support of high throughput phenotyping”	

49th Annual International Conference
for the Association of Egyptian American Scholars in Partnership with Ain Shams University



11:20 AM	11:45 AM	Break	
Breakout Sessions (11:45 AM – 2:00 PM) Moderator: Dr. Ayman Habib, University of Purdue Dr. Adel Elshahat, University of Purdue			
11:45 AM	12:00 PM	Dr. Prof. Wahied Gharieb Ali Abdelaal Ain Shams University “Sustainable Development in Egypt: Challenges and Opportunities”	L1
		Dr. Hadeel Elahraf The American University in Cairo “Giving Parents a Voice: Views of Inclusive Education In Egyptian Schools”	L2
12:00 PM	12:15 PM	Dr. Hebatullah Ashraf German University “Nanomaterials Rule in Increasing Water thermal properties of Decentralized solar still”	L1
		Dr. Mona A. M. Abo-Zeid National Research Centre “Prohibition of Chemokine Gene Marker Declines Cancer Cell migration and Invasion: In Vitro Study”	L2
12:15 PM	12:30 PM	Dr. Mahmoud Elgamal Ain Shams University “Chronic Kidney Disease Prediction a Comparative Analysis using K-Nearest Neighbour, Logistic Regression, and Optimized XGBoost”	L1
		Dr. Nasr, Amal / Abouhamad, Mona / ElSaid, Moheeb Cairo University “Life cycle emissions assessment for buildings in Egypt”	L2
12:30 PM	12:45 PM	Dr. Nermeen Aboelkhair, Mohammed El Nadi, Omar El Hossieny Banha University “Model Prediction for The Modified Dynamic Dual Mixed Media Filter”	L1
		Dr. Ghada Farouk Naiem Elsayed MTI University	L2



		“(1) FPGA Design and Implementation for Adaptive Digital Chaotic Key Generator (2) Optimizing Techniques for using MATLAB HDL CODER”	
12:45 PM	1:00 PM	Dr. Ragaa Abd El-Hakim / Sherif El-Badawy Tanta University “International Roughness Index Prediction for Continuous Reinforced Concrete Pavements using Artificial Neural Networks”	L1
		Dr. Fathya Abdelrazek Suez Canal University “Work Hazards Training Program and Its Effect on Quality of Work Life and Turnover Intention among Staff Nurses during COVID-19 Pandemic: A Quasi-Experimental Design”	L2
1:00 PM	1:15 PM	Dr. Sarah Elnekhaily Suez University “Evolution of matrix cracks from fiber/matrix debonds in unidirectional fiber composites”	L1
		Dr. Eman Sharawy Ain Shams University “Digital Transformation, Responsible Artificial Intelligence and Cybersecurity in Oncology”	L2
1:15 PM	1:30 PM	Dr. Amr Salem Ain Shams University “Tracing and assessment shoreline dynamics on the New Alamein City, Mediterranean Coast of Egypt, applied geomatics technique”	L1
		Dr. Amer El-Ahraf & Dr Shokry El- Kantiry California State University & Aswan University “Climate Change and Children's Health: Public Health, Moral, Legal, Language and Cultural Considerations”	L2
1:30 PM	1:45 PM	Ahmed Haleem Hussien Abd Alaziz Helwan University “Unconventional solutions in architectural design to meet the challenges of climate change”	L1
		Dr. Samah Metwally National Research Center “Climate change effect on appearance of dangerous agricultural pests and how we can face that”	L2



1:45 PM	2:00 PM	Dr. Asaad Mater Armanuos Tanta University “Fossil Groundwater Reserves in Egypt: Optimal Exploitation Approaches for Sustainable Use”	L1
		Dr. Amany Sayed Maghraby National Research Center “Climate Change and Autoimmunity”	L2
2:00 PM	2:15 PM	Break	
Breakout Sessions (2:15 PM – 3:20 PM) Moderator: Gamal Alafandy, Tuskegee University Dr. Ayman Mossalam			
2:15 PM	2:30 PM	Dr. Amr Mohamed Ryerson Cairo “Transactive Energy System Platform, under the stream of Climate Action, Energy Conservation and Renewable Energy”	L1
		Dr. Fathya Abdelrazek Suez Canal University “Critical thinking skills and dispositions among nursing students applying problem based learning: An analytical research study”	L2
2:30 PM	2:45 PM	Dr. Lamiaa Abdallah Alexandria higher Institute of Engineering & Technology “Future of Renewable Energy in Egypt: Challenges and Opportunities”	L1
		Dr. Mostafa Abdelnaser Al-Azhar University “Problem Based Learning (PBL); Five Years of Application in Al-Azhar Medical School”	L2
2:45 PM	3:00 PM	Dr. Abdelazim M. Negm Zagazig University “Stand Alone Agricultural Greenhouse to Mitigate Climate change and Helps Facing IWRM Challenges in Egypt”	L1
		Dr. Hadeel Elahraf The American University in Cairo	L2



		“Giving Parents a Voice: Views of Inclusive Education In Egyptian Schools”	
3:00 PM	3:15 PM	Dr. Amany Ibrahim International Islamic University Malaysia “The Impact of the Quality of Scientific Research on processing the Phenomena of Climate change In light of Vision 2030”	L1
		Dr. Brinc Ghatas Assiut University “Improving Green Accounting Methods for Sustainable development”	L2
3:15 PM	3:30 PM	Dr. Fathya Abdelrazek Suez Canal University “Concept Mapping and Enhancement of Problem Based Learning Practices among Nursing Students: A Quasi-Experimental Design”	L1
		Dr. Reda Albadawy Banha University “Role of Science, Technology and Innovation (STI) in Achieving Sustainable Development Goals – 2030”	L2
3:30 PM	3:45 PM	Dr. Baha Abulnaga Mazdak International Inc., Washington, USA “Weather Modification and Sediment Management for Egypt and Sudan”	L1
		Dr. Reda Amer Lamar University, USA “A Geospatial Method for Quantifying Coastal Land Loss: An Example from the Mississippi River Delta”	L2
3:45 PM	4:00 PM	Dr. Hussam Fatahalla SamNabil.com, Washington, USA “Small Steps with Big Results for the individual and the state Essential Communication Skills”	L1
		Dr. Nagi Mekhiel Toronto Metropolitan University, Canada “Introducing Multidimensional Parallel Decoder For Exascale Data Storage Devices”	L2
		Conclusion	