

NOVEMBER 8 OPENING

11:00 am

Road Map for Global Climate Change (stage)

Salah El Haggat, professor, Department of Mechanical Engineering

Karim Seddik, professor, Department of Electronics and Communications Engineering; associate dean for graduate studies and research, School of Sciences and Engineering

12:00 pm

J-PAL MENA/AUC Evidence on Climate Change for COP27 (stage)

Ahmed Elsayed, associate professor, Department of Economics; director of research, J-PAL MENA

Heba ElSahn '13, senior policy associate, J-PAL MENA

2:00 pm

CARES Sustainable Development Actions (stage)

Hani Sewilam, professor, Institute of Global Health and Human Ecology; director, Center for

Applied Research on the Environment and Sustainability; Egypt's minister of water resources and irrigation

Heaven and Hell in the Anthropocene (screen/poster)

Bahia Shehab (MA '09), professor of practice, Department of the Arts

NOVEMBER 9 FINANCE DAY

10:00 am

The Effect of Climate Change on Firm Performance: An Empirical Study on Developed Countries (stage)

Mohamed Basuony, professor and chair, Department of Accounting

Angie Abdel Zaher (MBA '00), associate professor, Department of Accounting

11:00 am

ESG Scores, CO2 Emissions and Firm Value (stage)

Moataz El-Helaly, assistant professor, Department of Accounting

Amr El-Alfy

Simulation Mangrove Ecosystem Restoration Model (MERS) (screen/poster)

Hani Sewilam, professor, Institute of Global Health and Human Ecology; director, Center for

Applied Research on the Environment and Sustainability; Egypt's minister of water resources and irrigation

12:00 pm

How Is Climate Change and the Transition to Green Economy Expected to Shape the Future of Work in Egypt? (stage)

Rana Hendy, assistant professor, Department of Public Policy and Administration; director, Master of Public Policy Program

2:00 pm

Green Jobs and the Future of Work (stage)

Ghada Barsoum (MA '99), associate professor and chair, Department of Public Policy and Administration

Mariez Wasfi, executive assistant to chair, Department of Public Policy and Administration

3:30 pm

Simulation Mangrove Ecosystem Restoration Model (MERS) (stage)

Hani Sewilam, professor, Institute of Global Health and Human Ecology; director, Center for

Applied Research on the Environment and Sustainability; Egypt's minister of water resources and irrigation

Yasmine Abdel Maksoud, senior technical manager, Center for Applied Research on the Environment and Sustainability

5:00 pm

CARES Carbon Credits Center (stage)

Hani Sewilam, professor, Institute of Global Health and Human Ecology; director, Center for

Applied Research on the Environment and Sustainability; Egypt's minister of water resources and irrigation

NOVEMBER 10 SCIENCE AND YOUTH AND FUTURE GENERATIONS DAY

10:00 am

Scholars Activity Panel (stage)

Magda Fayek, interim executive director, student financial affairs and scholarships, Office of Student Financial Affairs and Scholarships

Amal Mowafy '93, '98, chief of party, USAID Scholars Activity

How Do We Feel About Climate Change? (screen/poster)

Sherif Goubran '14, assistant professor, Department of Architecture

Ahmed Marey '21, graduate research assistant

11:00 am

Engaged Sustainable Futures (stage)

Sherif Goubran '14, assistant professor, Department of Architecture

Scholars Activity Video (screen/poster)

Magda Fayek, interim executive director, student financial affairs and scholarships, Office of Student Financial Affairs and Scholarships

Amal Mowafy '93, '98, chief of party, USAID Scholars Activity

12:00 pm

Overcoming Eco-Anxiety Amongst Youth in Egypt (stage)

Kate Ellis, assistant professor, Department of Psychology

Aliaa Saleh, executive assistant to chair, Department of Psychology

Designing for Climate Action (interactive simulation)

Fady Morcos, associate professor of practice; assistant provost for innovative learning experiences

Education for Sustainable Development (screen/poster)

Heba El Deghaidy, chair, Department of Educational Studies

Dena Riad '86, assistant to chair, Department of Educational Studies

1:00 pm

Media and the Environment: Communicating Climate Change in the Arab Region and Beyond (stage)

Hussein Amin, professor, Department of Journalism and Mass Communication; director, Kamal Adham Center for Television and Digital Journalism

Sarah El Shaarawi, managing editor, *Arab Media & Society*

Wind Towers as a Passive Environmental Solution for Energy and Carbon Reduction (interactive simulation)

Sherif Goubran '14, assistant professor, Department of Architecture

Khaled Tarabieh, associate professor, Department of Architecture; University architect

The Public Policy HUB – Climate Change Round (screen/poster)

Laila El Baradei '83, '88, professor, Department of Public Policy and Administration; director, Master of Public Administration Program

Waleed El-Deeb, senior specialist, The Public Policy HUB

3:30 pm

Innovation Engine: Creative Course Design/Learning Experiences that Matter (stage)

Fady Morcos, associate professor of practice; assistant provost for innovative learning experiences

Hoda Mostafa, professor of practice and director, Center for Learning and Teaching

Wind Towers as a Passive Environmental Solution for Energy and Carbon Reduction (interactive simulation)

Sherif Goubran '14, assistant professor, Department of Architecture

Khaled Tarabieh, associate professor, Department of Architecture; University architect

AUC TV: Climate Change Storytelling and Reporting (screen/poster)

Hussein Amin, professor, Department of Journalism and Mass Communication; director, Kamal Adham Center for Television and Digital Journalism

Salma El Ghetany '08, '17, executive assistant to director, Kamal Adham Center for Television and Digital Journalism

5:00 pm

Thermally Responsive Walls: A Low-Cost Approach for Sustainable Urbanization in Hot Arid Climates (stage)

Sherif Abdelmohsen, Associate Professor and Associate Chair of Architecture

Khaled Tarabieh, associate professor, Department of Architecture; University architect

Graduate Program in Sustainable Development and WEF Nexus Diploma (screen/poster)

Hani Sewilam, professor, Institute of Global Health and Human Ecology; director, Center for Applied Research on the Environment and Sustainability; Egypt's minister of water resources and irrigation

NOVEMBER 11 DECARBONIZATION DAY

10:00 am

Toward Decarbonizing Built Environment Through Assessing Air Infiltration and Its Influence on Energy-Related Emissions (stage)

Sherif Goubran '14, assistant professor, Department of Architecture

Rana Raafat

10:00 am

Research and Development of O&M Technologies for PV Plants Management (interactive simulation)
 Yehea Ismail, professor and chair, Department of Electronics and Communications Engineering
 Dalia Ahmed, senior manager, Center of Nanoelectronics and Devices

Office of Sustainability (screen/poster)

Yasmin Mansour (MEng '16), sustainability director, Office of Sustainability
 Sahar El Ghandour (MPA '17), sustainability manager, Office of Sustainability

11:00 am

Nature-Based Solutions – Mangrove Ecosystem Restoration Model (MERS) (stage)

Hani Sewilam, professor, Institute of Global Health and Human Ecology; director, Center for Applied Research on the Environment and Sustainability; Egypt's minister of water resources and irrigation

Research and Development of O&M Technologies for PV Plants Management (interactive simulation)

Yehea Ismail, professor and chair, Department of Electronics and Communications Engineering
 Dalia Ahmed, senior manager, Center of Nanoelectronics and Devices

12:00 pm

Plant on Top! Rooftop Gardening@AUC Dorms (stage)

Mohamed Zarif
 Tina Jaskolski, adjunct faculty, Department of Sociology, Egyptology and Anthropology

2:00 pm

The Effect of a Carbon Tax on the Egyptian Economy: An Intertemporal General Equilibrium Analysis

Abeer Elshennawy (MA '93), professor, Department of Economics

Wind Towers as a Passive Environmental Solution for Energy and Carbon Reduction (interactive simulation)

Sherif Goubran '14, assistant professor, Department of Architecture
 Khaled Tarabieh, associate professor, Department of Architecture; University architect
 Omar Abdelaziz, assistant professor, Department of Mechanical Engineering
 Khaled Nassar, professor, Department of Construction

3:30 pm

Learning Sustainability from Modernist Architects (stage)

Sherif Goubran '14, assistant professor, Department of Architecture
 Mahmoud El Kady

VR Lab (screen/poster)

Sherif Abdelmohsen, associate professor and associate chair, Department of Architecture

5:00 pm

Digital Manufacturing for Sustainable and Cleaner Construction (stage)

Hanadi Salem '83, '87, professor and chair, Department of Mechanical Engineering
 Sherif Abdelmohsen, associate professor and associate chair, Department of Architecture

Sustainability and Carbon Footprint Report (screen/poster)

Khaled Tarabieh, associate professor, Department of Architecture; University architect
 Yasmin Mansour (MEng '16), sustainability director, Office of Sustainability

NOVEMBER 12 ADAPTATION AGRICULTURE DAY

10:00 am

Responding to Climate Change with a Design Mindset (stage)

Fady Morcos, associate professor of practice; assistant provost for innovative learning experiences

A Physical Simulation Model of a Smart Decoupled Recirculating Aquaculture System as an Adaptation Strategy to Climate Change (interactive simulation)

Hani Sewilam, professor, Institute of Global Health and Human Ecology; director, Center for Applied Research on the Environment and Sustainability; Egypt's minister of water resources and irrigation
 Fahad Kimera (MSc '18), senior manager, agriculture, Center for Applied Research on the Environment and Sustainability

Research and Development of O&M Technologies for PV Plants Management (screen/poster)

Yehea Ismail, professor and chair, Department of Electronics and Communications Engineering
 Dalia Ahmed, senior manager, Center of Nanoelectronics and Devices

11:00 am

WEF Nexus (CoE Water) (stage)

Hani Sewilam, professor, Institute of Global Health and Human Ecology; director, Center for Applied Research on the Environment and Sustainability; Egypt's minister of water resources and irrigation

11:00 am

A Physical Simulation Model of a Smart Decoupled Recirculating Aquaculture System as an Adaptation Strategy to Climate Change (interactive simulation)

Hani Sewilam, professor, Institute of Global Health and Human Ecology; director, Center for Applied Research on the Environment and Sustainability; Egypt's minister of water resources and irrigation
Fahad Kimera (MSc '18), senior manager, agriculture, Center for Applied Research on the Environment and Sustainability

Eco-Friendly Green Disinfectants and Wound Care Solutions (screen/poster)

Wael Mamdouh, professor, Department of Chemistry
Amro Shetta

12:00 pm

It's Just One Bag – Mini-Play (stage)

Jillian Campana, professor, Department of the Arts; associate dean for undergraduate studies, School of Humanities and Social Sciences

Fertilizer Drawn Forward Osmosis for the Use of Untapped Brackish Groundwater Resources in Irrigation (screen/poster)

Hani Sewilam, professor, Institute of Global Health and Human Ecology; director, Center for Applied Research on the Environment and Sustainability; Egypt's minister of water resources and irrigation
Yasmine Abdel-Maksoud (MSc '09, PhD '18), senior technical manager, Center for Applied Research on the Environment and Sustainability

2:00 pm

Zero-Energy Compact Unit for Rural Sanitation (ZECU) (stage)

Ahmed El-Gendy, professor, Department of Construction; director, Environmental Engineering Graduate Program

Tailor-Designed Sorbents for the Removal of Contaminants of Emerging Concerns (CECs) (screen/poster)

Mayyada El-Sayed, associate professor, Department of Chemistry
Tarek Madkour, professor, Department of Chemistry
Hebatullah Farghal (MSc '17)

3:30 pm

AUC-LSE Climate Urbanism Initiative (stage)

Noura Wahby (MPA '13), assistant professor, Department of Public Policy and Administration
Deen Sharp

5:00 pm

Cambridge Development and Resilience Group (stage)

Noura Wahby (MPA '13), assistant professor, Department of Public Policy and Administration
Shailaja Fennell, professor of regional transformation and economic security, University of Cambridge

Using AI in Agriculture to Adapt Farming Practices to Climate Change (interactive simulation)

Ahmed Rafea, professor, Department of Computer Science and Engineering

Panel on Water Scarcity (Duration: 45 min - Location: Hall B) (side event)

Mayyada El-Sayed, associate professor, Department of Chemistry
Tarek Madkour, professor, Department of Chemistry

NOVEMBER 14 GENDER DAY AND WATER DAY

10:00 am

Fertilizer Drawn Forward Osmosis for the Use of Untapped Brackish Groundwater Resources in Irrigation (stage)

Hani Sewilam, professor, Institute of Global Health and Human Ecology; director, Center for Applied Research on the Environment and Sustainability; Egypt's minister of water resources and irrigation
Yasmine Abdel-Maksoud (MSc '09, PhD '18), senior technical manager, Center for Applied Research on the Environment and Sustainability

Using AI in Agriculture to Adapt Farming Practices to Climate Change (interactive simulation)

Ahmed Rafea, professor, Department of Computer Science and Engineering

11:00 am

Sustainable WEF Nexus Model: An Integrated Multi-Technology System for Both Food and Water Security in an Eco-Friendly Environment (stage)

Hani Sewilam, professor, Institute of Global Health and Human Ecology; director, Center for Applied Research on the Environment and Sustainability; Egypt's minister of water resources and irrigation
Fahad Kimera (MSc '18), senior manager, agriculture, Center for Applied Research on the Environment and Sustainability

12:00 pm

The Suremap Project (stage)

Hani Sewilam, professor, Institute of Global Health and Human Ecology; director, Center for Applied Research on the Environment and Sustainability; Egypt's minister of water resources and irrigation

CoE Water (screen/poster)

Essam Mohamed, assistant professor, Institute of Global Health and Human Ecology
Rawnaa Yassin (MSc '17)

2:00 pm

CoE Water (stage)

Essam Mohamed, assistant professor, Institute of Global Health and Human Ecology
Rawnaa Yassin (MSc '17)

3:30 pm

Labor Economics Community-Based Learning (stage)

Dina Abdel Fattah '08, assistant professor and chair, Department of Economics
Amal Mowafy '93, '98, chief of party, USAID Scholars Activity

A Physical Simulation Model of a Smart Decoupled Recirculating Aquaculture System as an

Hani Sewilam, professor, Institute of Global Health and Human Ecology; director, Center for Applied Research on the Environment and Sustainability; Egypt's minister of water resources and irrigation
Fahad Kimera (MSc '18), senior manager, agriculture, Center for Applied Research on the Environment and Sustainability

Novel Membranes for Desalination (screen/poster)

Amal Esawi '89, '90, professor, Department of Mechanical Engineering
Adham Ramadan '91, professor, Department of Chemistry; dean of graduate studies; associate provost for research

5:00 pm

Greywater Treatment for Reuse (stage)

Ahmed El-Gendy, professor, Department of Construction Engineering; director, Environmental Engineering Graduate Program
Salah El Haggag, professor, Department of Mechanical Engineering

A Physical Simulation Model of a Smart Decoupled Recirculating Aquaculture System as an Adaptation Strategy to Climate Change (interactive simulation)

Hani Sewilam, professor, Institute of Global Health and Human Ecology; director, Center for Applied Research on the Environment and Sustainability; Egypt's minister of water resources and irrigation
Fahad Kimera (MSc '18), senior manager, agriculture, Center for Applied Research on the Environment and Sustainability

NOVEMBER 15 ACE, CIVIL SOCIETY AND ENERGY DAY

10:00 am

Integrating Education with Global/Local Partners for Real-Life Projects: Toward a Nexus of Food, Health and Well-Being in Sustainable Urban Planning of Future College Towns at Cairo's Desert Cities (stage)

Momen El-Husseiny, assistant professor, Department of Architecture
Sara Seyam '19

11:00 am

Is Egypt's Rural Youth Employment Vulnerable to Climate Change? (stage)

Dina Abdel Fattah '08, assistant professor and chair, Department of Economics
Yasmine Abdel Fattah

Integrating Education with Global/Local Partners for Real-Life Projects: Toward a Nexus of Food, Health and Well-Being in Sustainable Urban Planning of Future College Towns at Cairo's Desert Cities (screen/poster)

Momen El-Husseiny, assistant professor, Department of Architecture
Sara Seyam '19

12:00 pm

Sustainable Water-Energy-Food Nexus Model: Panel Discussion (stage)

Hani Sewilam, professor, Institute of Global Health and Human Ecology; director, Center for Applied Research on the Environment and Sustainability; Egypt's minister of water resources and irrigation
Fahad Kimera (MSc '18), senior manager, agriculture, Center for Applied Research on the Environment and Sustainability

12:00 pm

A Physical Simulation Model of a Smart Decoupled Recirculating Aquaculture System as an Adaptation Strategy to Climate Change (interactive simulation)
Hani Sewilam, professor, Institute of Global Health and Human Ecology; director, Center for Applied Research on the Environment and Sustainability; Egypt's minister of water resources and irrigation
Fahad Kimera (MSc '18), senior manager, agriculture, Center for Applied Research on the Environment and Sustainability

Toward a More Resilient Transportation Infrastructure in Egypt: Pavement Greener Solutions (screen/poster)
Maram Mahmoud Saady, assistant professor and associate chair, Department of Construction Engineering
Mohamed Abou-Zeid, professor, Department of Construction Engineering

2:00 pm

From Natural Gas to Green Hydrogen: Upgrading Existing Transnational Energy Infrastructure Connecting North Africa to Europe (stage)
Roberto Cardinale, assistant professor, Department of Economics
Jauad El Kharraz

3:00 pm

Combining Retrofitting Techniques, Renewable Energy Resources and Regulations for Residential Buildings to Achieve Energy Efficiency in Gated Communities (stage)
Tamir El-Khouly, assistant professor, Department of Architecture
Bassent Adly

NOVEMBER 16 BIODIVERSITY DAY

10:00 am

Tailor-Designed Sorbents for the Removal of Contaminants of Emerging Concern (CECs) (screen/poster)
Mayyada El-Sayed, associate professor, Department of Chemistry
Tarek Madkour, professor, Department of Chemistry
Hebatullah Farghal (MSc '17)

Exposome-Wide Association Study of Parkinson's Disease in an Egyptian Cohort (stage)
Mohamed Salama, associate professor, Institute of Global Health and Human Ecology
Hassan El-Fawal, professor, School of Sciences and Engineering

11:00 am

Climate Change Adaptability and Governance: Why We Must Get Both Right (stage)
Angie Abdel Zaher (MBA '00), associate professor, Department of Accounting
Dina M. Abdelzaher, University of Houston-Clear Lake
Silvana Chambers, University of Houston-Clear Lake

A Physical Simulation Model of a Smart Decoupled Recirculating Aquaculture System as an Adaptation Strategy to Climate Change (interactive simulation)
Hani Sewilam, professor, Institute of Global Health and Human Ecology; director, Center for Applied Research on the Environment and Sustainability; Egypt's minister of water resources and irrigation
Fahad Kimera (MSc '18), senior manager, agriculture, Center for Applied Research on the Environment and Sustainability

12:00 pm

Remedial and Protective Measures for Coastal Structures on both the Mediterranean and the Red Sea from Negative Impacts of Climate Change (stage)

Exposome-Wide Association Study of Parkinson's Disease in an Egyptian Cohort (screen/poster)
Mohamed Salama, associate professor, Institute of Global Health and Human Ecology
Hassan El-Fawal, professor, School of Sciences and Engineering

2:00 pm

Separate Sensible and Latent Cooling with Low GWP Refrigerants (stage)
Omar Abdelaziz, assistant professor, Department of Mechanical Engineering
Mohamed El-Morsi, professor, Department of Mechanical Engineering

VR Lab (interactive simulation)

3:30 pm

Simulation – Mangrove Ecosystem Restoration Model (MERS) (stage)
Hani Sewilam, professor, Institute of Global Health and Human Ecology; director, Center for Applied Research on the Environment and Sustainability; Egypt's minister of water resources and irrigation

5:00 pm

VR Lab (interactive simulation)

NOVEMBER 17 SOLUTIONS DAY

10:00 am

The Role of Heritage Preservation in Sustainable Development
Sherif Goubran '14, assistant professor, Department of Architecture
Virginia Bassily '21

11:00 am

Systems Thinking Toward Climate Resilience (stage)
Fady Morcos, associate professor of practice; assistant provost for innovative learning experiences

Wind Towers as a Passive Environmental Solution for Energy and Carbon Reduction (interactive simulation)

Sherif Goubran '14, assistant professor, Department of Architecture
Khaled Tarabieh, associate professor, Department of Architecture; University architect
Omar Abdelaziz, assistant professor, Department of Mechanical Engineering
Khaled Nassar, professor, Department of Construction

12:00 pm

Showcase: Student Projects (interactive simulation)

2:00 pm

Sustainable Development in the Built Environment Through Transdisciplinary Architectural Design (stage)
Sherif Goubran '14, assistant professor, Department of Architecture
Rana Geith '21

Showcase: Student Projects (interactive simulation)

A Fossil Fuel-Free Urban Future: Transitioning Gas Stations to Net-Zero Resiliency Hubs (screen/poster)

Sherif Goubran '14, assistant professor, Department of Architecture
Khaled Tarabieh, associate professor, Department of Architecture; University architect

3:30 pm

The Transnational Heritage Future Studio: Zero-Carbon and Resilient (stage)
Sherif Goubran '14, assistant professor, Department of Architecture

5:00 pm

A Sustainable Educational Future: Combating Climate Change Through Healthy Buildings

Showcase: Student Projects (interactive simulation)

NOVEMBER 18 CLOSING

10:00 am

The AUC DataHub for Climate Change Mitigation: Establishment of a Training and Reporting Platform for the Carbon Footprint of Egyptian Universities (stage)
Khaled Tarabieh, associate professor, Department of Architecture; University architect
Sherif Goubran '14, assistant professor, Department of Architecture

11:00 am

Climate Action Design Workshop (stage)
Fady Morcos, associate professor of practice; assistant provost for innovative learning experiences

Showcase: Student Projects (interactive simulation)

12:00 pm

Showcase: Community Projects (screen/poster)

2:00 pm

Showcase: Student Projects (interactive simulation)

5:00 pm

Showcase: Student Projects (interactive simulation)