Theme	Presenter	Department	Presentation Title	VEDNESDAY MARCH 15 Abstract
				g in the Pubic Eye" - Continued from March 13
10:00-10:15 am	Kim Fox	JRMC	E7Ky ya Masr: Egypt water crisis affected food productioj	Ehky Ya Masr's How Egypt's Water Crisis Impacts Food Production https://soundcloud.com/ehkyyamasr/how-egypts-water-crisis-impacts-food- production?in=ehkyyamasr/sets/award-winning-ehky-ya-masr
Session 2 "Climate Change and Economy"				
The slow rate of job creation in the public and private formal sector has pushed the youth of Egypt to either exit the labor market or to accept jobs in the informal/pregular sector. These jobs are inflyin secure and unatable. This paper pere beyond studying the labor market performance by analysing the unemployed and informal properties of the public and public and public and the public and public an				
10:20-10:35 am	Dina Abdel Fattah	ECON	Is Egypt's rural youth employment vulnerable to climate change?	out of labor force into studying employment vulnerability by being in informal/irregular jobs. The study combines the impact of socioeconomic variables in addition to
				climate change to understand the determinants of vulnerable employment and more so among rural youth. We combine data from the ELMPS and geographically gridded daily measures of climate change. Our results show the persistence of employment vulnerability among youth with a stronger impact on rural youth. Changes in
				temperature and humidity show a significant impact on employment vulnerability among rural youth.
				This paper studies the economic and regulatory conditions for the implementation of large-scale projects of production and transport of green hydrogen from North Africa to Europe. The EU has shown a remarkable interest in importing hydrogen from North Africa, to reach dimate commitments while compensating for the reduction
	Roberto Cardinale	ECON		of gas imports from the Russian Federation. The idea to import green hydrogen from North Africa stems from the potentially low costs of production thanks to
10:40-10:55 am			From natural gas to green hydrogen: upgrading existing transnational energy infrastructure connecting North Africa to Europe	abundance of solar energy and land in desertic areas, and to existing export infrastructure. The paper analyses the cases of Egypt and Algeria and finds that Algeria has a potential cost advantage in transporting green hydrogen to Europe thanks to overcapacity in its existing gas infrastructure, which could be upgraded. By contrast,
				Egypt is more competitive in the generation of renewable power, a key input of green hydrogen, thanks to regulation that attracts investments. The paper explores the
				economic and regulatory drivers of their different performance across the renewable energy generation and green hydrogen transport phases, and condudes that both countries are cost competitive in a similar way. However, considering their regulatory and political economy differences, it suggests the EU to adopt a differentiated
				approach to energy and dimate diplomacy in view of launching joint initiatives on green hydrogen. BREAK
Session 2 **Climate Charles*** A Economy *** Continued Session 2 **Climate Charles** A Economy *** Charles** Charles** A Economy *** Charles** C				
11:15-11:30 am	Moataz El-Helaly	ACCT	ESG Scores, CO2 Emissions and Firm Value	ESG scores and actual Co2 emissions. Our main inquiry is to what extent can managerial ability explain existing variations in ESG scores. In further analysis we show that managerial ability is associated with higher ESG scores. We also show that ESG scores are associated with higher stock prices and higher market valuations. On the other
				hand, we find that more efficient firms relatively lacking managerial ability invest less in ESG activities
				The green transition is a global endeavor and concerns all countries as all regions of the world are impacted by climate change. A The transition to the green economy and greener jobs are likely to increase the demand for existing skills as well as create new occupations that entail different types of tasks which require new skills, the so-
11:35-11:50 pm	Dr. Rana Hendy	PPA	Transitioning to a Green Economy Shapes the Future of Work in Egypt	called green skills. This study researches the growing and shrinking occupations using nationally representative data from Egypt. The findings provide evidence on the
				future of work to help design the needed labor market policies. Green into help reduce the needting anyign mental impacts improve energy and raw materials efficiency; limit greenhouse are emissions; minimize waste and pollutions.
				Green jobs help reduce the negative environmental impact; improve energy and raw materials efficiency, limit greenhouse gas emissions; minimize waste and pollution; protect and restore ecosystems and support the adaptation to the effects of climate change. This report addresses the propects of green jobs in the field of agriculture. The paper argues that agriculture is a knowledge-intensive field and a green transformation in this field starts with a systemic and well-governed process of knowledge.
11:55-12:10 pm	Ghada Barsoum	PPA	Green Jobs and the Future of Work in Egypt " A Focus on Agriculture	The paper argues that agriculture is a knowledge-intensive field and a green transformation in this field starts with a systemic and well-governed process of knowledge transfer. The analysis discusses potentials for improving the parameters for enabling the business of agriculture (EBA); use of digital technology in marketing and supply
				chain management; and advancing technologies for climate coast agriculture
			Session 3 "C	ARF AK Imate Change and Health Imnact* [Climate change is an anthropogenic phenomenon that is alarming scientists and non-scientists alike. The emission of greenhouse gases is causing the temperature of the
				earth to rise and this increase is accompanied by a multitude of climate change-induced environmental exposures with potential health impacts. Tracking human
12:30-12:45 pm	Anwar Abdelnaser	IGHHE	Climate Change and the Fallout on Health	exposure has been a major research interest of scientists worldwide. This has led to the development of exposome studies that examine internal and external individual exposures over their lifetime and correlate them to health. The monitoring of health has also benefited from significant technological advances in the field of "omics"
				technologies that analyze physiological changes on the nucleic acid, protein, and metabolism levels, among others. In this review, we discuss various climate change-
				induced environmental exposures and their potential health implications. We also highlight the potential integration of the technological advancements in the fields of exposome tracking, climate monitoring, and omics technologies shedding light on important questions that need to be answered.
				Parkinson™s disease (PD) is a brain disorder that mostly affects older adults. Its causes are not fully known, but scientists think it results from a complex interaction of
				genetic and environmental factors. Possible environmental contributors include air pollution and chemicals found in pesticides. One challenge in understanding the
				causes of PD is that it generally occurs late in life, meaning that the people who get it have been exposed to many types of environmental factors; it is therefore difficult to know which factors contributed to the disease. Fortunately, new scientific methods allow us to determine some of the key environmental risks that people have been
12:50-1:05 pm	Mohamed Salama	IGHHE	Exposome wide study for Parkinson's Disease	exposed to throughout their lives. These new methods can help us figure out what causes PD. We believe that PD develops in response to a cluster of genetic and
				environmental factors that interact and lead to disease. We will use several existing, high-quality datasets to conduct new investigations into the effects on PD development of multiple environmental exposures individually, and jointly. Data sources include: (1) questionnaire data that provides information on occupational and
				lifestyle factors, (2) an air quality model that can reconstruct the outdoor environment, (3) data from silicone wristbands that collect data on exposure to chemicals, and
[4] biological data i.e. genetic and other molecular analyses. We will investigate which of these factors &c" alone or together &c" may lead to PD. Session 4 "Climate Change and Innovative Solutions" Session 4 "Climate Change and Innovative Solutions"				
			Session 4 "Clima	Carbon dioxide emissions have been increasing rapidly in the past decades due to increase in industrialization. Many carbon capture technologies have been introduced
				to capture the carbon dioxide from the atmosphere thus reducing emissions. Although many of these technologies are effective, they are all very high in cost, therefore they are not widely applied globally. This research introduces a method for carbon capture that is highly effective and very low in cost. The technology relies on fly ash
1:15-1:30 pm	Sherif Fakher	PENG	Carbon Dioxide Capture Using Low Cost Pozzolanic Material	which is a byproduct of combustion that usually ends up in landfills. Fly ash has been found to have a strong affinity to carbon dioxide which causes the carbon dioxide
				molecules to stick to the fly ash. By utilizing the fly ash, carbon capture can be achieved using a low cost material, and the fly ash will not end up in landfills thus enhancing waste material usage and sustainability while increasing carbon capture globally.
				Current air conditioning and refrigeration technologies contribute negatively to the environment either through the emissions of harmful refrigerants or the inefficient
1:35-1:50 pm	Omar Abdelaziz	MENG	Cooling without Warming Our Planet	use of energy. In this presentation, we will cover how environmentally friendly refrigerants could be used to design high efficiency air conditioners and refrigerators to combat potential climate impacts.
1:55-2:10 pm	Ehab El Sawy	CHEM	Stationary Aqueous Redox Flow Batteries: Toward Sustainable and Safe Renewable Energy Storage	Stationary Aqueous Redox Flow Batteries: Toward Sustainable and Safe Renewable Energy Storage
				Net zero concept in a global scale is the solution to climate change. Net zero cocept including net zero waste, net zero water, net zero energy and net zero emissions.
2:15-2:30 pm	Salah M. El-Haggar	MENG	Net Zero Concept and Climate Change	Net zero Concept in a global scale will contribute heavily to the carbon foot print. This approach will add a new dimesion to adaptation and mitigation called "utilization". The concept of utilization will add a new dimension to the national economy not only to Egypt but also to Africa and the world.
2:35-2:50 pm	Salah Arafa	PHYS	AUC-Basaisa Integrated Field Projects for Environmental Sustainability and	
Sexion 5 "Climate Change and Innovative Solutions". Continued				
			aessuu a "Climate Ch.	There is a growing awareness that Nature-based solutions (NbS) can be an effective approach to tackling the combined challenges of climate change, nature loss, and
3:00-3:15 pm	Yasmine Kamal Abdel- Maksoud	CARES	Nature-based Solutions for Climate Change Adaptation: Potential and Limitations	human well being. NBS opts to promote adaptation and increase communities' resilience to climate change and ecosystem loss. However, the uptake of NBS projects is still limited. The challenges to NBS interventions are numerous including weak political support and absence of governance structures, difficulties in monitoring and
	Maksoud		<u>.</u> ,	evaluation, and lack of investments and financial support. This research aims to identify key enablers and success factors to effectively implement, scale up and
			An eco-innovative sustainable solution integrating three global challenges of	mainstream NBS and highlight the areas that should be tackled by researchers to promote NBS and start mobilizing finances towards NBS.
3:20-3:35 pm	Fahad Kimera	CARES	Water scarcity, conventional Energies and Food insecurity amidst the era of climate change. (WEF 4 Climate Resilience)	An eco-innovative sustainable solution integrating three global challenges of Water scarcity, conventional Energies and Food insecurity amidst the era of climate change. (WEF 4 Climate Resilience)
			Committee of the Fig. 1 and the Committee of the Committe	This short presentation describe how Artificial Intelligence could be used to adapt farming practices to the negative impacts of climate changes on agriculture
3:35-3:50 pm	Ahmed Rafea	CSE	Using AI in Agriculture to Adapt Farming Practices to Climate Change	production. The essay first describes how the climate changes Intensified Agriculture challenges resulting from diluting the cultivated area and food production while the earth population is increasing. Then the concept of Climate Smart Agriculture that was developed to help in responding to those challenges is to adapt farming
				practices are recommended.
3:50-4:05 pm	Ossama Hosny	CENG	An Optimization Model for Integrated & Sustainable Farming	An Optimization Model for Integrated & Sustainable Farming
				With global population growth and urbanization trends rising (Department of Economic and Social Affairs (Population Division), 2017; United Nations - Department of
4:05-4:20 pm			Sustainable Thinking as a Tool for Design: Defining Means of Advancing Sustainable Development in the Built Environment through Transdisciplinary	Economic and Social Affairs Population Division, 2018), it is now imperative that we move towards a state of creative sustainability in the built environment. The
				publication of the 2030 Agenda and the sustainable development goals, the (SDGs), have reframed the sustainable built environment challenge as a complex design problem, open for interpretation, judgment, and theorization and leading to multiple solutions and innovations that require synthesis of knowledge between a
				multitude of disciplines. In this paper, we argue that architecture, as a field of research and practice, is both inductive and inclusive of the creative transdisciplinary
	Sherif Nader	ARCH		approaches needed to tackle sustainable development challenges in the built environment. The paper theoretically postulates that architectural design, as a field of design research and practice, is fit for accelerating sustainable development in the built environment through its application of transdisciplinary approaches throughout
	Goubran		Architectural Design	its process. Accordingly, the paper's method analyses a series of published cases available through the International Union of Architects (UIA) publications that
				highlight how creative transdisciplinarity through architecture can contribute to the SDGs, and present creative transdisciplinary sustainable solutions developed for the 17 goals within nine architectural domains. A relationship matrix that connects architectural domains with the SDGs based on evidence found in various cases is
				presented as a summary of the findings. Accordingly, the paper concludes that the value of architecture as a transdisciplinary field of study and practice is manifested to
				be one that gives attention to the network of interrelations in a given context, is in harmony with the context of ecological, social, historical, biological, and economic forces, preserves and restores the damages within a society, capitalizes on the resources and capacities of the context, and establishes possibilities of co-existence.
			Session 6 "Climate Ch	nange and Art" - Continued from March 13
4:20-4:35 pm	Elizabeth Rauh	ARTS	Iridescent Modernity: The Troubling Artistic Legacy of Pearl Diving in the Persian	Iridescent Modernity: The Troubling Artistic Legacy of Pearl Diving in the Persian Gulf
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