

SMART News

Singapore-MIT Alliance for Research and Technology



Researchers from SMART speaking at the CREATE Symposium in December

Researchers from SMART showcased a range of innovative projects to tackle climate change at the CREATE Symposium in December. Professor Fitzgerald moderated a panel where FM's Professor Moshe Ben-Akiva and **Dr. Rui Zhu** along with SMART DiSTAP researcher Dr. Min Hao Wong spoke on how cities can adapt to climate change.

LEES Principal Investigator Professor Tonio Buonassisi also spoke at the Symposium on how machine learning is set to disrupt research and development tasks, including the discovery and design of energy systems.



CREATE Symposium 2019

The CREATE Symposium will be held on 6 December 2019, with a theme centred on Climate Change. It will feature keynote sessions and an invited presentation in the morning followed by a series of presentations/panel discussions in the afternoon (by researchers at CREATE and their collaborators) on three sub-themes: (1) Mitigation, (2) Adapting to Climate Change and (3) Policy and Planning. Posters and exhibits will be showcased.

PROGRAMME

TIME	SESSION	EVENT
08:00	Registration	Registration
08:45		All guests to be seated
09:00	Welcome	Opening Speaker <u>Mr Peter Ho</u> Senior Advisor to the Centre for Strategic Futures and Chairman of the CREATE Governing Council
09:30	Keynote Lecture	"The SouthEast Asia Sea-level program (SEA2)" <u>Prof Benjamin Horton</u> Chair of the Asian School of the Environment, Nanyang Technological University

TIME	SESSION	EVENT
10:00		Tea Break & Posters
10:30	Keynote Lectures	<p>"Rethinking the calculations of global warming" <u>Prof Daniel Rosenfeld</u> Hebrew University of Jerusalem (HUJ)</p> <p>"Limiting global warming to 1.5°C: Conclusions from the IPCC and relevance for cities" <u>Prof Sonia Seneviratne</u> Institute for Atmospheric and Climate Science, ETH Zurich</p>
12:00		Networking Lunch
13:25		Opening of Afternoon Session
13:30	Climate Change Mitigation	<p>"Climate Mitigation Overview" <u>Prof Markus Kraft</u> Director, Cambridge Centre for Advanced Research and Education in Singapore</p> <p>Featuring presentations by: <u>Prof Alexei Lapkin</u> (CARES) <u>Prof Tonio Buonassisi</u> (SMART) <u>Dr Tej Choksi</u> (NTU) <u>Prof Thomas Hamacher</u> (TUMCREATE) <u>Jacob Martin</u> (CARES) <u>Prof Peter Edwards</u> (Natural Capital)</p>
14:45	Adapting to Climate Change	<p>"Adapting to Climate Change Overview" <u>Prof Eugene Fitzgerald</u> CEO, Singapore-MIT Alliance for Research and Technology</p> <p>Featuring presentations by: <u>Prof Moshe Ben-Akiva</u> (SMART) <u>Prof Stefano Schiavon</u> (BEARS) <u>Dr Rui Zhu</u> (SMART) <u>Dr Min Hao Wong</u> (SMART) <u>Prof Erland Källén</u> (CCRS)</p>
16:00		Tea Break & Posters

TIME	SESSION	EVENT
16:30	From Research to Policy and Planning	<p>"Climate Policy and Planning Overview"</p> <p><u>Prof Gerhard Schmitt</u> Director, Singapore-ETH Centre</p> <p>Featuring presentations by: <u>Prof Stephen Cairns</u> (SEC) <u>Prof Steve Evans</u> (CARES) <u>Prof Ren Chao</u> (HKU) <u>Lea Ruefenacht</u> (SEC) <u>Ms Adele Tan</u> (URA)</p>
17:30	Closing	<p>Closing Remarks by: <u>Prof Gerhard Schmitt</u> Director, Singapore-ETH Centre</p>
18:00 - 19:00	Networking Reception	

WHERE & WHEN

6 December 2019 (Friday)

8:00am to 6:00pm

followed by Reception.

Registration starts at 8am.

Please be seated by 8.45am.

Venue:

UTown Auditorium 1

Level 1 Town Plaza

1 CREATE Way

Singapore 138602

CREATE Research Directions



The Human Systems (i.e. inflammation, infectious diseases, biosystems and micromechanics) is an interdisciplinary thematic area of research for CREATE that was chosen to be part of an overarching theme of system of systems.

The Environmental Systems (i.e. clean water, clean energy, solid waste disposal, conservation) is an interdisciplinary thematic area of research for CREATE that was chosen to be part of an overarching theme of system of systems.

URBAN SYSTEMS

The Urban Systems (i.e. energy and environmental sustainability, urban mobility, and urban design and territorial planning) is an interdisciplinary thematic area of research for CREATE that was chosen to be part of an overarching theme of system of systems.

ENERGY SYSTEMS

The Energy Systems (i.e. carbon capture and reduction, building efficiency and sustainability, harnessing solar energy and low energy electronic systems) is an interdisciplinary thematic area of research for CREATE that was chosen to be part of an overarching theme of system of systems.



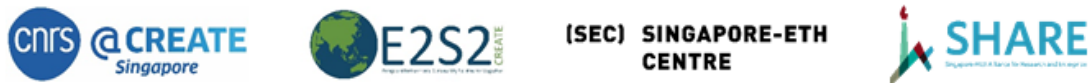
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ABOUT CREATE

The Campus for Research Excellence And Technological Enterprise (CREATE) is an international research campus and innovation hub which houses an international collaboratory of research centres set up by top global universities and research institutes in Singapore. CREATE has about 30,000 square metres of laboratory space in four buildings that house some 1,100 researchers. CREATE's areas of research fall under four major interdisciplinary themes of Environmental Systems, Energy Systems, Human Systems and Urban Systems. CREATE was officially opened by

Singapore Prime Minister Lee Hsien Loong on 16 November 2012. Situated in the National University of Singapore's University Town (NUS U-Town), CREATE is in the vicinity of the other Singapore high tech centres such as Biopolis, Fusionopolis and the Science Parks.

ORGANISERS



Supported by:



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