Session 1: The Economy - Shape of Recovery and Growth Thursday 1 October 2020 (15:00-17:00 GMT / 10:00-12:00 EDT)

10:00am Welcome and Introduction

10:10am The Rise of the Intangible Economy
Jonathan Haskel
Professor of Economics at Imperial College Business School, Imperial College London
Director of the Doctoral Programme at the School
Imperial College London

10:35am If Demography Is Destiny, What Do Business Leaders Need To Know About The Future Of The Workplace & Marketplace?
Joseph Coughlin
Director
MIT AgeLab

Joseph Coughlin, PhD is Director of the MIT AgeLab. Based in the Center for Transportation & Logistics, he teaches in MIT’s Department of Urban Studies & Planning and the Sloan School’s Advanced Management Program. Coughlin conducts research on the impact of global demographic change and technology trends on consumer behavior and business strategy. He advises a wide variety of global firms in financial services, healthcare, leisure and travel, luxury goods, real estate, retail, technology, and transportation. Coughlin has served on advisory boards for firms such as Bell Canada, British Telecom, Daimler, Fidelity Investments and Sanofi-Aventis. He was appointed by President George W. Bush to the White House Advisory Committee on Aging and by Governor Charlie Baker to the Governor's Council on Aging in Massachusetts, where he co-chaired the Innovation & Technology Subcommittee. A Behavioral Sciences Fellow of the Gerontological Society of America and a Fellow of Switzerland’s World Demographics & Ageing Forum, Coughlin is a Senior Contributor to Forbes and writes regularly for MarketWatch and the Wall Street Journal. He was named by Fast Company Magazine as one the ‘100 Most Creative in Business’ and by the Wall Street Journal as inventing the future of retirement. Recently, Coughlin was recognized as one of 15 World Minds by the Zurich-based World Minds, a select community of global leaders in science, arts and business. His new book, The Longevity Economy: Inside the World’s Fastest Growing, Most Misunderstood Market (Public Affairs, 2017), is one of CEO READ’s Business Bestsellers.

11:00am Industry Presentation
Aireen Omar
President (RedBeat Ventures), AirAsia Group
Michael Schrage
Research Fellow, MIT Sloan School's Initiative on the Digital Economy

Michael Schrage is a fellow with MIT Sloan School's Initiative on the Digital Economy and the author of 'The Innovator's Hypothesis' [MIT Press 2014], 'Who Do You Want Your Customers To Become?' [Harvard Business Review Press 2012], and 'Serious Play' [Harvard Business Review Press 2000], among others. His research, writing, and advisory work focuses on the 'behavioral economics' of models, prototypes, and experiments as collaborative media for managing 'innovation risk' and opportunity. His current research explores the interplay of 'network effects' with innovation and human capital. Schrage's pioneering work in 'selvesware' technologies was designed to augment aspects, attributes, and talents of productive individuals. Current research building on that theme, in collaboration with Google and the Sloan Management Review, addresses the 'future of KPIs' and digital dashboards. His particular interest is the future of 'agency' in algorithmically-rich networked environments.

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Aireen Omar
President (RedBeat Ventures), AirAsia Group

Session 2: Innovation for the future Thursday 8 October 2020 (15:00-17:00 GMT /
Welcome and Introduction

Catalysing a Green Recovery for London

Richard Templer
Faculty of Natural Sciences, Department of Chemistry at Imperial College London
Director of Innovation at the Grantham Institute

Imperial College London

London has a large climate tech community. In 2018 250,000 Londoners were generating £40 bn GVA in climate tech, 5% of London’s economy and growth rates had just climbed to 10%. This is great but does not match the challenge or opportunity that climate change presents. Our ambition was to catalyse at least a doubling in this growth rate by the end of this decade. We argued that growth rates were hindered by the lack of clustering and ecosystem networking. Successive Mayor’s of London agreed with this assessment and the creation of a climate tech innovation cluster is now in long term policy for the city.

Imperial is working with the Mayor’s office and a number of key partners to create the conditions for this growth. In essence this is to be done through two linked initiatives: the creation of Cleantech London, an organisation to network the ecosystem, actively develop innovation opportunities and promote London to the wider climate tech world; the creation of the Centre for Climate Change Innovation, a place that can be the nerve centre for London’s climate tech activity.

I will talk about what we did to make these things happen, where we are now, and what we will be doing next.

Battling Climate Change with Low-Cost Renewable Electricity

Yet-Ming Chiang
Kyocera Professor, Materials Science and Engineering

Yet-Ming Chiang is Kyocera Professor in the Department of Materials Science and Engineering at Massachusetts Institute of Technology (MIT). He holds S.B. and Sc.D. degrees from MIT, where he has been a faculty member since 1984. His work focuses primarily on advanced materials and their role in clean energy. He is a member of the U.S. National Academy of Engineering, and a Fellow of the American Ceramic Society and the Materials Research Society. He has published over 200 scientific articles, one textbook, and holds about 35 issued patents and a similar number of pending patent applications. In addition to his academic research, Chiang has co-founded four companies based on research from his MIT laboratory: American Superconductor Corporation (NASDAQ: AMSC), A123 Systems (NASDAQ: AONE), SpringLeaf Therapeutics, and 24M Technologies. Of these, three are in the area of energy technology (Am. Super., A123, and 24M) and three grew out of research in batteries (A123, SpringLeaf and 24M). Chiang also serves on numerous government and private advisory committees and study panels, including the U.S. Department of Energy’s Energy Efficiency and Renewable Energy Advisory Committee (ERAC) and Basic Energy Sciences Advisory Committee (BESAC), the Basic Energy Sciences’ Materials Science Division’s Materials Council, Princeton University’s Andlinger Center for Energy and Environment, and the Stanford Institute for Materials and Energy Sciences (SIMES).

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The advent of ultralow cost, but intermittent, renewable electricity is creating opportunities for not only the electricity sector, but other industrial sectors that have been historically hard to decarbonize. A hallmark of these sectors is that existing products are fully commoditized; in many ways these are the most difficult areas in which to innovate. I will discuss two examples – long duration electrical storage which combined with renewable generation could displace natural gas, and a possible pathway to electrification of the cement industry, which is today the largest GHG emitter amongst industrial materials.

Industry Talk

Lisa Perkins
Adastral Park and Research Realisation Director, BT
Roundtable Discussion

Harveen Chugh
Principal Teaching Fellow in Entrepreneurship
Imperial College London

SMAP Energy - graduates of the Imperial-led EIT Climate-KIC Accelerator London

Stable - Electric vehicle fleet charging, from MIT's Startup Exchange

PolyJoule - Non-lithium based energy storage for the electricity grid, from MIT's Startup Exchange

Bumblebee Power - high-efficiency wireless charging for micro-mobility vehicles and drones