

Day 1: November 19 at Kresge Auditorium (Building W16)				
8:00	Registration and Light Breakfast			
9:00	Welcome & Introduction - <b>Karl F. Koster</b> , Executive Director, MIT Office of Corporate Relations			
9:10	Opening Keynote - <b>Karen Gleason</b> , Associate Provost, MIT			
9:40	Harnessing Global Innovation: A Large Company's Perspective - <b>Larry Wendling</b> , VP of Corporate Research Laboratory, 3M			
10:20	Break			
10:45	<b>Executive Panel Discussion: <i>Harnessing Global Innovation - Models and Contrasts</i></b> Moderated by <b>Jason Pontin</b> <b>Tarek Habashy</b> , Managing Director, Schlumberger Doll Research <b>Michael Idelchik</b> , VP of Advanced Technologies, GE Research <b>Melissa Monich</b> , VP of R&D, Procter & Gamble <b>Sridar Natesan</b> , VP Strategic Initiatives & Scientific Relations, Sanofi			
12:00	Lunch and <b>Startup Exhibit</b> @ Media Lab (Building E14) 3DEO - Aerva - Akselos - Coventry Associates - Deep Web Technologies - Domeyard LP - Ecovent - Energy Compression - EyeNetra - Filter Sensing Technologies GeriJoy - GVD - Holosonics - Jisto - Kitchology - LightSail Energy - Luminoso - Salubris Analytics - Sourcewater - SQZ Biotechnologies - Vecna - Yegii			
Concurrent Technology Tracks at Stratton Student Center (Building W20)				
	<b>Track 1- Sensors Everywhere: Instrumenting the World at <a href="#">Twenty Chimneys</a></b>	<b>Track 2 - Energy Storage and Distributed Power at <a href="#">Mezzanine</a></b>	<b>Track 3 - MIT Environmental Initiatives and Technologies at <a href="#">#407</a></b>	<b>Track 4 - Synthetic Biology/Chemistry at <a href="#">#491</a></b>
2:00	The IoT: Sensing and Big Data for Consumer-centric, Engineering and Industrial Applications <b>Sanjay Sarma</b>	Pathways to Low-cost Stationary Electrochemical Energy Storage <b>Fikile Brushett</b>	Building an environmental initiative at MIT <b>Susan Solomon</b>	Mammalian synthetic biology: from parts to modules to therapeutic systems <b>Ron Weiss</b>
2:45	Sensing, Learning, and Inference Group <b>John Fisher</b>	Energy Innovation in the Developing World <b>Rob Stoner</b>	Water and Food Research at MIT <b>John Lienhard</b>	Engineering computation, diagnostics, and living materials with synthetic biology <b>Tim Lu</b>
3:30	Break			
4:00	Revealing the invisible with video Magnification <b>Fredo Durand</b>	Optimizing storage technologies for solar and wind energy <b>Jessika Trancik</b>	Chemical Sensors for the Water Environment <b>Harry Hemond</b>	Rapid Prototyping Tools for Engineering Complex Genetic Programs <b>Ben Gordon</b>
4:45	The Explosion of Big Data ... and the Cybersecurity of the Data <b>Stuart Madnick</b>	No Watt Left Behind: Extracting Actionable Analytics from Power Usage Data <b>Steve Leeb</b>	The Role of Efficiency in Solving the Energy Crisis <b>Leon Glicksman</b>	Analog Synthetic Biology <b>Rahul Sarpeshkar</b>
5:30	Networking Reception			

\* All schedule and speakers are subject to change without notice. (v. 11.7.14)

	Day 2: November 20, 2014 at Kresge Auditorium (Building W16)		
8:00	Registration and Light Breakfast		
8:30	Welcome & Introduction - <b>Karl F. Koster</b>		
8:35	Akamai perspective of a “grownup” startup – <b>Tom Leighton</b> , CEO, Akamai		
9:05	<b>Startup Panel Discussion: <i>Models and Perspectives on Mutual Value Creation with Corporations</i></b> Moderated by <b>Trond Undheim</b> <b>Andrej Danko</b> , Chief Software Architect, Sourcewater <b>Agustin Lopez Marquez</b> , Founder and CEO, SQZ Biotechnologies <b>Dipul Patel</b> , Co-Founder and CEO, Ecovent <b>Hilton Pryce Lewis</b> , Founder and CEO, GVD Corporation <b>Vitor Pamplona</b> , Co-founder and CTO, EyeNetra		
9:45	Break		
	Concurrent Technology Tracks at Stratton Student Center (Building W20)		
	<b>Track 5 – Sensors Everywhere: Instrumenting You at Twenty Chimneys</b>	<b>Track 6 - Carbon-based Nanotechnology at Mezzanine</b>	<b>Track 7 - Non-conventional Energy Sources at #491</b>
10:00	Sensors for Tracking Behavior and Mental Health <b>Richard Fletcher</b>	GaN, Graphene and Other Extreme Materials for Future Electronics <b>Tomas Palacios</b>	Energy Technology Spinoffs From Plasma Fusion Research <b>Daniel Cohn</b>
10:45	Revolutionizing Medical Device Design <b>Charles Sodini</b>	Building Stronger Multifunctional Composites <b>Brian Wardle</b>	Emerging Insights Regarding Unconventional Oil and Gas Resource Productivity <b>Francis O'Sullivan</b>
11:30	Break		
11:45	Model-based Physiologic Monitoring: Leveraging Real-time Data and Models for Improved Clinical Inference <b>Thomas Heldt</b>	New Concepts in Molecular and Energy Transport within Carbon Nanotubes and Graphene <b>Michael Strano</b>	CO2 reduction and reversible sequestration <b>Christopher Cummins</b>
12:30	Health-Tech Innovation <b>Ramesh Raskar</b>	Application Development for CVD Graphene and Solution Based Graphene <b>Jing Kong</b>	A Molecular Engineering Approach to Catalytic Bio-oil Upgrading <b>Yuriy Román</b>
1:15	Adjournment and Bagged Lunch		

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## Speakers



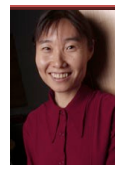
### **Fikile Brushett**

*Raymond A (1921) and Helen E St  
Laurent Career Development Assistant  
Professor of Chemical Engineering  
MIT Department of Chemical Engineering*



### **Karen Gleason**

*Associate Provost  
Alexander and I Michael Kasser  
Professor of Chemical Engineering  
MIT Department of Chemical  
Engineering*



### **Jing Kong**

*ITT Career Development Associate  
Professor of Electrical Engineering  
MIT Department of Electrical  
Engineering and Computer Science*



### **Daniel Cohn**

*Research Scientist  
Division Head, Plasma Technology  
and Systems Division (PSFC)  
MIT Energy Initiative*



### **Leon Glicksman**

*Professor of Building Technology  
and Mechanical Engineering  
MIT Department of Architecture*



### **Karl F. Koster**

*Executive Director  
MIT Office of Corporate  
Relations/Industrial Liaison Program*



### **Christopher Cummins**

*Professor of Chemistry  
MIT Department of Chemistry*



### **Ben Gordon**

*Director, MIT-Broad Foundry  
MIT Department of Biological  
Engineering  
Broad Institute Technology Labs*



### **Steve Leeb**

*Professor of Mechanical and  
Electrical Engineering and  
Computer Science  
MIT Department of Electrical  
Engineering and Computer Science*



### **Andrej Danko**

*Chief Software Architect  
Sourcewater*



### **Tarek Habashy**

*Managing Director  
Schlumberger Doll Research*



### **Tom Leighton**

*Chief Executive Officer  
Akamai*



### **Fredo Durand**

*Professor of Computer Science and  
Engineering  
MIT Department of Electrical  
Engineering and Computer Science*



### **Thomas Heldt**

*Assistant Professor of Electrical Engineering  
and Computer Science  
Hermann von Helmholtz Career Development  
Assistant Professor  
Principal Investigator, Research Laboratory of  
Electronics (RLE)  
MIT Department of Electrical Engineering and  
Computer Science*



### **Hilton Pryce Lewis**

*Founder and CEO  
GVD Corporation*



### **John Fisher**

*Principal Research Scientist  
MIT Computer Science and Artificial  
Intelligence Laboratory*



### **Harold Hemond**

*William E Leonhard (1940) Professor of  
Civil and Environmental Engineering  
Leader, Environmental Systems Group  
MIT Department of Civil and  
Environmental Engineering*



### **John Lienhard**

*Samuel C. Collins Professor of Mechanical  
Engineering  
Director, KFUPM Center for Clean Water and  
Clean Energy  
Director, Rohsenow Kendall Heat Transfer  
Laboratory  
MIT Department of Mechanical Engineering*



### **Richard Fletcher**

*Research Scientist  
MIT Development Through  
Dialogue, Design and Dissemination*



### **Michael Idelchik**

*Vice President, Advanced  
Technologies  
GE Global Research*



### **Timothy Lu**

*Assistant Professor of Electrical  
Engineering and Computer Science  
MIT Department of Electrical  
Engineering and Computer Science*

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### **Stuart Madnick**

*John Norris Maguire (1960)  
Professor of Information Technology  
and Engineering Systems  
Co-Director, PROFIT Program  
MIT Sloan School of Management*



### **Jason Pontin**

*Editor-in-Chief and Publisher  
MIT Technology Review  
Chairman, MIT Enterprise Forum*



### **Michael Strano**

*Professor of Chemical Engineering  
MIT Department of Chemical  
Engineering*



### **Agustin Lopez Marquez**

*Founder and CEO  
SQZ Biotechnologies*



### **Ramesh Raskar**

*Associate Professor of Media Arts  
and Sciences  
Head, Camera Culture Group  
MIT Media Lab*



### **Jessika Trancik**

*Atlantic Richfield Career  
Development Assistant Professor in  
Energy Studies  
MIT Engineering Systems Division*



### **Melissa Monich**

*Vice President Research &  
Development, Gillette, Male  
Grooming, Braun, global Devices  
Procter & Gamble*



### **Yuriy Román**

*Assistant Professor in Chemical  
Engineering  
MIT Department of Chemical  
Engineering*



### **Trond Undheim**

*Senior Lecturer, MIT Sloan School of  
Management  
Founder, Yegii, Inc.  
Senior Industrial Liaison Officer & Lead,  
Startup Initiative  
MIT Industrial Liaison Program*



### **Sridaran Natesan**

*Vice President, Strategic Initiatives  
& Science Relations (North  
America)  
Sanofi*



### **Sanjay Sarma**

*Fred Fort Flowers (1941) and Daniel  
Forst Flowers (1941) Professor of  
Mechanical Engineering  
Director, Office of Digital Learning (ODL)  
Director, MIT/SUTD Collaboration Office  
Margaret MacVicar Faculty Fellow  
MIT Office of the Provost*



### **Brian Wardle**

*Associate Professor of Aeronautics and  
Astronautics  
Director, Nano-Engineered Composite  
Aerospace Structures (NECST)  
Consortium  
MIT Department of Aeronautics and  
Astronautics*



### **Francis O'Sullivan**

*Director of Research and Analytics  
(MITEL)  
MIT Energy Initiative*



### **Rahul Sarpeshkar**

*Associate Professor of Electrical  
Engineering  
MIT Department of Electrical  
Engineering and Computer Science*



### **Ron Weiss**

*Professor of Biological Engineering  
Director, MIT Synthetic Biology Center  
MIT Department of Electrical Engineering  
and Computer Science*



### **Tomás Palacios**

*Emmanuel Landsman CD Associate  
Professor of Electrical Engineering  
MIT Department of Electrical  
Engineering and Computer Science*



### **Charles Sodini**

*Clarence J LeBel Professor of  
Electrical Engineering  
MIT Department of Electrical  
Engineering and Computer Science*



### **Larry Wendling**

*Vice President  
Corporate Research Laboratory  
3M*



### **Vitor Pamplona**

*Co-Founder and CTO  
EyeNetra*



### **Susan Solomon**

*Ellen Swallow Richards (1873) Professor  
of Atmospheric Chemistry and Climate  
Change  
MIT Department of Earth, Atmospheric,  
and Planetary Sciences*



### **Dipul Patel**

*Co-Founder and CEO  
Ecovent*



### **Robert Stoner**

*Deputy Director for Science and  
Technology  
Co-Director, Tata Center for  
Technology and Design  
MIT Energy Initiative*