

## Tuesday, October 18, 2011

	INNOVATION STAGE	TECH THEATRE
8:00 AM	REGISTRATION & BREAKFAST	
9:00 AM		
9:10	<p><b>Lessons in Innovation</b> <b>Steven Johnson, Writer</b></p> <p>Johnson, the best-selling author and <i>New York Times</i> columnist, will discuss his latest research into the natural history of innovation, or what sparks truly great ideas.</p>	<p><b>Does Manufacturing Matter?</b> <b>Willy Shih, Professor of Management Science, Harvard Business School;</b> <b>Suzanne Berger, Professor of Political Science, MIT;</b> <b>Christine Furstoss, Global Technology Director,</b> <b>Manufacturing &amp; Materials Technologies, GE Global Research;</b> <b>David Rotman, Editor, Technology Review (Moderator)</b></p> <p>This panel will discuss the provocative and timely topic of the role of advanced manufacturing in the innovation value chain and its impact on global competitiveness.</p>
9:20		
9:30 AM	<p><b>tr@ Pitches: Computing</b></p> <p>In this fast-paced four-minute pitch format, <i>Technology Review's</i> Young Innovators will discuss some of the most exciting directions in computing, from software that can't crash to a common language for robots. Presenters: June Andronick, Brian Gerkey, Noah Snaveley, Jernej Barbic, Gert Lanckriet</p>	
9:40		
9:50	<p><b>The Age of the Life Code</b> <b>Juan Enriquez, Managing Director, Excel Venture Management</b></p> <p>Enriquez, the founder &amp; former director of the Life Sciences Project at Harvard Business School, will address the game-changing social and market impact of the life sciences.</p>	<p><b>Mobile Device Video Teleconferencing</b> <b>Jeff Rodman, Cofounder, Polycom</b></p> <p>Rodman will demo groundbreaking video conferencing for mobile devices, which will allow workers to make enterprise-grade video calls on any device, over any network, as easily as telephone calls.</p>
10:00 AM		
10:10	BREAK & NETWORKING	
10:20		
10:30 AM	<p><b>tr@ Pitches: Cloud and Web</b></p> <p><i>Technology Review's</i> Young Innovators will discuss some of the most exciting developments in the areas of the cloud and Web, from research into what drives online collaboration to cloud security. Presenters: Judd Antin, Alina Oprea, Jeff Hammerbacher, Jesse Robbins, Umar Saif</p>	<p><b>tr@ Q&amp;A Session: Computing</b></p> <p>In this interactive 40-minute Q&amp;A session, five of <i>Technology Review's</i> 35 Young Innovators will answer audience questions and discuss in depth fascinating directions in computing, from software that can't crash to a common language for robots. Presenters: June Andronick, Brian Gerkey, Noah Snaveley, Jernej Barbic, Gert Lanckriet</p>
10:40		
10:50		
11:00 AM	<p><b>Disruptive Funding</b> <b>David Lee, Managing Member, SV Angel</b></p> <p>In this onstage interview with <i>Technology Review's</i> editor in chief Jason Pontin, David Lee discusses his controversial Start Fund and the dramatic shift in the way he and his partners, Ron Conway and Yuri Milner, are funding new startups.</p>	
11:10		
11:20		<p><b>Data Privacy: User-Centric Identity</b> <b>Michael Fertik, Founder and CEO, Reputation.com</b></p> <p>Fertik, also a member of the World Economic Forum Agenda Council on Internet Security, will discuss the "data privacy vault," a data privacy model that not only compensates individuals for mining their data but also inspires a new technosystem of profitable services and applications.</p>
11:30 AM	<p><b>tr@ Pitches: Making Things Smarter</b></p> <p><i>Technology Review's</i> Young Innovators will discuss some of the most exciting emerging technologies, from replacing silicon with graphene to robots that learn from people. Presenters: Bhaskar Krishnamachari, Aishwarya Ratan, Dan Berkenstock, Pieter Abbeel</p>	
11:40		
11:50	<p><b>A Smarter Grid</b> <b>Dario Gil, Worldwide Program Director, IBM Smarter Energy Research</b></p> <p>Dario Gil, the worldwide program director of IBM's Smarter Energy Research program, will discuss the latest developments and the emerging technologies in smart-grid initiatives around the globe.</p>	<p><b>Untethered TV</b> <b>Shadman Zafar, Senior VP of Product Development, Verizon</b></p> <p>Zafar will demo the next-generation TV experiences, untethered from the home and living room, making every device a TV-set-top box.</p>
12:05 PM	LUNCH (WINTER GARDEN and SILVERMAN SKYLINE)	
2:00 PM		
2:10	<p><b>The Triumphs and Tensions of Technology</b> <b>Andrew McAfee, Author and Principal Research Scientist, MIT Center for Digital Business</b></p> <p>The recent advances and benefits brought by digital technologies have been nothing short of astonishing. However, as the world digitizes, we now face difficult choices between algorithms and intuition, focus and distraction, employment and displacement. McAfee will highlight both recent progress and imminent problems in the age of the smart machine.</p>	<p><b>Next-Generation 3-D</b> <b>Jim Mainard, Head of Production Development, DreamWorks Animation;</b> <b>Ellen McGirt, Senior Writer, Fast Company</b></p> <p>In a discussion with the CNN contributor and <i>Fast Company</i> columnist Ellen McGirt, Jim Mainard, who heads production at DreamWorks, the studio behind some of the highest grossing animated hits of all time, <i>Antz</i> and <i>Shrek</i>, will cover the application of the studio's groundbreaking 3-D technologies to a variety of entertainment, business, and scientific fields.</p>
2:20		
2:30 PM		
2:40	<p><b>tr@ Pitches: Materials</b></p> <p><i>Technology Review's</i> Young Innovators will discuss some of the most exciting developments in materials, from smarter wireless networks to solar cells that see more light. Presenters: Jennifer Dionne, Riccardo Signorelli, Fengnian Xia, Solomon Assefa</p>	<p><b>The Cyborg in Everyone: A Thought Becomes a Command</b> <b>Gerwin Schalk, Research Scientist, Wadsworth Center</b></p> <p>Schalk, a computer engineer at Wadsworth Medical Center, will discuss his lab's pioneering method for controlling computers with thoughts instead of fingers.</p>
2:50		
3:00 PM		<p><b>The Cloud: What Is It and Can You Trust It?</b> <b>Simon L. Garfinkel, Author</b></p> <p>We all use the cloud, but should we trust it? Will the cloud be there when we need it? Is there a way to make the cloud more reliable, or is the cloud already more reliable than our desktop systems, which it is fast replacing? Garfinkel will discuss the security, reliability, and privacy issues that arise from using the cloud, and how we can make cloud-based services more trustworthy and reliable.</p>
3:10	<p><b>Gestural Interface Demo</b> <b>Aviad Maizels, President and Founder, PrimeSense</b></p> <p>Witness the newest gestural interface demo from the company that gave us the 3-D sensing technology behind Xbox 360 Kinect.</p>	
3:20		
3:30 PM	BREAK & NETWORKING	
3:40		
3:50		<p><b>Working with Google</b> <b>Kristen Morrissey, Principal, New Business Development, Google</b></p> <p>Morrissey will discuss Google's work with for-profit and non-profit partners.</p>
4:00 PM	<p><b>Fostering Innovation</b> <b>Joi Ho, Director, MIT Media Lab</b></p> <p>This onstage interview is a conversation between <i>Technology Review's</i> editor in chief Jason Pontin and the Media Lab's new director, an influential angel investor and a leading thinker and writer on innovation, global technology, and the role of the Internet in transforming society.</p>	<p><b>tr@ Q&amp;A Session: The Cloud and Web</b></p> <p>In this interactive 40-minute Q&amp;A session, five of <i>Technology Review's</i> Young Innovators will answer audience questions and discuss in depth some of the most exciting developments in the areas of the cloud and Web, from reBrief's search into what drives online collaboration, to cloud security. Presenters: Judd Antin, Alina Oprea, Jeff Hammerbacher, Jesse Robbins, Umar Saif</p>
4:10		
4:20		
4:30 PM	<p><b>Data Security in the Cloud</b> <b>Craig Gentry, Researcher, IBM</b></p> <p>A 2011 TR10 winner, Gentry is working on an encryption system that could eliminate the security risks currently keeping many organizations from using cloud computing to analyze and mine data.</p>	
4:40		
4:50		<p><b>Teaching Elephants to Dance: The Corporate Innovation Imperative</b> <b>Ken Morse, Chairman, Entrepreneurship Ventures</b></p> <p>Today's market leaders face a tsunami of global competition. What should major corporations do to overcome the "innovator's dilemma" and increase the pace and effectiveness of their innovation initiatives? In this interactive presentation, Morse will give examples of how Japanese, European, and American firms turned around their decline and fought back to the #1 spots in their chosen markets. He will then suggest ways your firm can organize to embrace innovation and corporate venturing imperatives better.</p>
5:00 PM	<p><b>Next-Generation Energy Companies</b> <b>Eric Toone, Deputy Director for Technology, ARPA-E</b></p> <p>Toone will present case studies of a number of agency-funded startups and their game-changing technologies, which might redefine the economics of renewable energy sources.</p>	
5:10		
5:20		
5:30 PM	<p><b>2011 tr@ Awards Ceremony</b></p> <p>This special onstage presentation honors this year's TR35 award recipients and the Humanitarian of the Year.</p>	(SIMULCAST OF INNOVATION STAGE)
5:40		
5:50		
6:00 PM	<p><b>Reception and Kind of Blue Jazz Tribute</b></p> <p>Bookending our innovation theme, which starts with the author of <i>Where Good Ideas Come From</i>, Steven Johnson, we pay tribute to the most influential jazz album of all time, Miles Davis's groundbreaking <i>Kind of Blue</i>, performed by the Mark Harvey Trio.</p>	
8:00 PM		

## Wednesday, October 19, 2011

	INNOVATION STAGE	TECH THEATRE
8:00 AM	REGISTRATION & BREAKFAST	
9:00 AM		
9:10	<p><b>Innovations in Health-Care Technology</b>  <b>Greg Sorensen, CEO, Siemens Healthcare</b></p> <p>Sorensen will discuss the company's corporate innovation culture, which helps Siemens anticipate trends in health-care technology. He will focus on how the company is engineering tools to help improve clinical processes.</p>	<p><b>Personalized Medicine, Here and Now</b>  <b>Alexis Borisy, Partner, Third Rock Ventures</b></p> <p>A 2003 TR100 winner, Borisy will discuss personalized medicine as it is currently unfolding, including the emerging enabling technologies, the changing rules of the game, disruptive business models, societal costs, and health economics.</p>
9:20		
9:30 AM		
9:40		<p><b>Collective Intelligence on Sustainable Energy</b>  <b>Robert Heffernan, Associate Partner Business Analytics Optimization, IBM Global Business Solutions</b></p> <p>Based on IBM Cognos Advanced Analytics, which uses AI to scan and evaluate social media, this presentation will highlight the collective intelligence on sustainable energy, including key individual influencers, major online communities, and the most discussed technologies.</p>
9:50	<p><b>Disruptive Energy Q&amp;A</b>  <b>Bill Joy, Partner, Kleiner Perkins Caufield and Byers</b></p> <p>In this onstage interview with <i>Technology Review's</i> editor in chief Jason Pontin, Joy will discuss the role of disruptive technologies in achieving long-term energy goals. Joy oversees a portfolio of nearly 60 green startups.</p>	
10:00 AM		
10:10		<p><b>tr Q&amp;A: Making Things Smarter</b></p> <p>In this interactive 40-minute Q&amp;A session, four of <i>Technology Review's</i> Young Innovators will answer audience questions and discuss in depth some of the most exciting emerging technologies, from replacing silicon with graphene to robots that learn from people. Presenters: Bhaskar Krishnamachari, Aishwarya Ratan, Dan Berkenstock, Pieter Abbeel</p>
10:20	<p><b>The Cloud-Connected Car</b>  <b>Venkatesh Prasad, Group and Senior Technical Leader, Vehicle Design and Infotronics, Ford Research &amp; Innovation</b></p> <p>Ford Motor Co. will present the Evos concept vehicle, which will showcase the company's future design direction and technology vision, including cloud connectivity and enhanced driver experience.</p>	
10:30 AM		
10:40	BREAK & NETWORKING	
10:50		
11:00 AM	<p><b>Extruding Innovation: Making Cleantech a Commercial Reality</b>  <b>Scott Elrod, VP and Director, PARC, a Xerox company</b></p> <p>PARC has turned its attention to making cleantech a commercial reality. Elrod will discuss borrowing from the practices of the printing industry to enable higher-efficiency solar cells, producing affordable energy storage for EVs without the typical power-energy tradeoffs.</p>	<p><b>Measured-Life Demo and Q&amp;A</b>  <b>David Marvit, VP, Fujitsu Labs of America; Jef Holove, CEO, Basis; Brian Bergstein, Deputy Editor, Technology Review (Moderator)</b></p> <p>In this fast-paced demo session, two of the most "disruptive" emerging tech pioneers will demo technologies that are changing the way we approach health care. Audience Q&amp;A will follow.</p>
11:10		
11:20	<p><b>Solar at the Price of Coal</b>  <b>Ely Sachs, CTO, 1366 Technologies</b></p> <p>Sachs will discuss his company's drive to produce solar electricity at the price of coal, through revolutionizing the current manufacturing processes while building on the existing silicon PV supply chain.</p>	
11:30 AM		
11:40	<p><b>tr Pitches: Biomedicine</b></p> <p><i>Technology Review's</i> Young Innovators will discuss some of the most exciting developments in biomedicine, from reprogramming stem cells to tailoring polymers for biodegradable implants. Presenters: Christopher Bettinger, Andrew Phillips, Yemi Adesokan, Miriah Meyer, Fan Yang</p>	<p><b>Preparing for the Electric Vehicle Revolution</b>  <b>Ron Ambrosio, Global Research Executive, Energy &amp; Utilities Industry IBM Research</b></p> <p>Ambrosio will discuss building the relevant ecosystem for the upcoming electric vehicle revolution, including demand management, distributed generation, and distributed storage technologies.</p>
11:50		
12:00 PM	<p>SPONSORED BY</p>  <p><b>LUNCH - SILVERMAN SKYLINE</b></p> <p><b>Risky Business: Taking Invention to Innovation</b>          Featured Speaker: Joseph A. Coray, VP, The Hartford</p>	
2:00 PM	<p><b>Sustainable Energy and Scale</b>  <b>Bryan Hannegan, VP of Environment and Renewables, EPRI; Jeff Miller, Partner, The Tremont Group; Alex Tkachenko, President and Cofounder, Siluria; William R. Gould, Jr., CTO, SolarReserve; Ernie Moniz, Director, MIT Energy Initiative (Moderator)</b></p> <p>Energy experts will discuss cleaner energy sources, including solar, wind, and biofuels, and examine how likely they are to be economically competitive when used at a scale large enough to significantly replace fossil fuels.</p>	<p><b>tr Q&amp;A: Materials</b></p> <p>In this interactive 40-minute Q&amp;A session, four of <i>Technology Review's</i> Young Innovators will answer audience questions and discuss in depth some of the most exciting developments in materials, from smarter wireless networks to solar cells that see more light. Presenters: Jennifer Dionne, Riccardo Signorelli, Fengnian Xia, Solomon Assefa</p>
2:10		
2:20		
2:30 PM	<p><b>The Future of TV</b>  <b>Deb Roy, Founder and CEO, Bluefin Labs</b></p> <p>Roy will discuss Bluefin's technology platform, which analyzes social media commentary to measure real-time audience response to TV ads and shows.</p>	<p><b>The Business of Innovation: The ZocDoc Story</b>  <b>Cyrus Massoumi, Cofounder and CEO, ZocDoc</b></p> <p>Massoumi will recount the rise of this startup from eureka moment to what Forbes calls "the fastest growing health information technology company." ZocDoc offers patients free online scheduling of medical appointments.</p>
2:40		
2:50	<p><b>Doubling the Range of EVs with Solid-State Batteries</b>  <b>Ann Marie Sastry, Founder, Sakti3</b></p> <p>A 2011 TR100 winner, Sastry will discuss her quest to double the 100-mile range of a typical electric car by producing solid-state battery systems one-half to one-third the size of conventional ones.</p>	
3:00 PM		
3:10	BREAK & NETWORKING	
3:20		
3:30 PM	<p><b>Economic Success and Environmental Performance</b>  <b>Mark Vachon, VP, GE Ecomagination</b></p> <p>Vachon will discuss the company's innovative approach to transformational emerging technologies in the areas of health care and energy, as well as the company's strategic approach to advanced manufacturing.</p>	<p><b>tr Q&amp;A: Biomedicine</b></p> <p>In this interactive 40-minute Q&amp;A session, five of <i>Technology Review's</i> Young Innovators will answer audience questions and discuss in depth some of the most exciting developments in biomedicine, from reprogramming stem cells to tailoring polymers for biodegradable implants. Presenters: Christopher Bettinger, Andrew Phillips, Yemi Adesokan, Miriah Meyer, Fan Yang</p>
3:40		
3:50		
4:00 PM	<p><b>tr Pitches: Health</b></p> <p><i>Technology Review's</i> Young Innovators will discuss some of the most exciting emerging technologies in health care, from networking patients to combat chronic diseases to letting consumers analyze their sleep. Presenters: Paul Wicks, Ben Rubin, Ajit Narayanan, Piya Sorcar</p>	<p><b>I'd Put My Money on the Sun</b>  <b>Christopher Norris, President &amp; CEO, Alta Devices</b></p> <p>Norris will discuss harnessing the sun's energy at a scale and cost to compete effectively with fossil fuels.</p>
4:10		
4:20		
4:30 PM	<p><b>The Effects of Desktop DNA Sequencing on Personalized Medicine</b>  <b>Jonathan Rothberg, Founder, Ion Torrent</b></p> <p>Rothberg will discuss how the ability to cheaply sequence large volumes of DNA will revolutionize personal medicine, agriculture, and energy.</p>	
4:40		
4:50	BREAK & NETWORKING	
5:00 PM		
5:10	<p><b>Mobile Health Care</b>  <b>Don Jones, VP, Qualcomm</b></p> <p>Jones, also the founder of the Wireless Life Sciences Alliance, will discuss how "smart" sensor technologies, combined with wireless, will create major transformations in the way we deliver health care and will profoundly change the quality and cost structure of medicine.</p>	<p><b>tr Q&amp;A: Health</b></p> <p>In this interactive 25-minute Q&amp;A session, four of <i>Technology Review's</i> 35 Young Innovators will answer audience questions and discuss in depth some of the most exciting emerging technologies in health care, from networking patients to combat chronic diseases to letting consumers analyze their sleep. Presenters: Paul Wicks, Ben Rubin, Ajit Narayanan, Piya Sorcar</p>
5:20		
5:30 PM	<p><b>User Experience Design for Disruptive Tech</b>  <b>Gianfranco Zaccai, Founder and Chief Design Officer, Continuum</b></p> <p>Zaccai will discuss the critical role user experience design plays in the adoption of "disruptive" technologies.</p>	<p><b>The Quantified Self</b>  <b>Gary Wolf, Cofounder, Quantified Self</b></p> <p>Wolf will discuss the global phenomenon of supplementing self-knowledge with quantitative tools and about what the concept of "the macroscope" (distributed data aggregation) might mean for health and health care.</p>
5:40		
5:50		