

TECHONOMY

TE15: Re-Humanizing Society
Sunday, November 8 – Tuesday, November 10, 2015
The Ritz-Carlton, Half Moon Bay, CA

Final Agenda as of November 10, 2015

Technology as scapegoat has driven fears since at least the industrial revolution. That is as true as ever today, with fears of privacy intrusion, our devices inducing inattention, withdrawal from human contact into screens, job-killing robots, and innumerable business models being destroyed. We believe tech holds enormous promise for society's advancement. But to advocate for tech means also to take responsibility for the maintenance of values—how can we remain, or become, a people-centered world of amity and brotherhood as tech transforms everything around us? Yes, we see the risk of people dehumanized, reduced to numbers, becoming interchangeable cogs on an ever-more-efficient assembly line of production and output. But we think more likely, if we work for it, is that we are on the cusp of an era of tech-enabled empowerment, connection, triumph and imagination, a time when tech asserts itself as a truly *re-*humanizing force.

SUNDAY, NOVEMBER 8

10:00am **Registration Opens**

12:00 – 2:30pm **Recreation and Mind-Clearing Activities**

3:30 – 3:40pm **Welcome**
David Kirkpatrick, Chief Technomist, Techonomy Media

3:40 – 4:10pm **Fusion**
A troop of Technomists ignite our conversations with downloads of their biggest concerns and best ideas about tech's potential and perils.
Speakers: **Marco Annunziata**, Chief Economist and Executive Director of Global Market Insight, GE
Brian Forde, Director of Digital Currency, MIT Media Lab
Sara Gardner, VP and CTO, Social Innovation and Global Industries Solutions, Hitachi Data Systems
Eileen Guo, Co-founder and President, Impassion Afghanistan
Jessi Hempel, Senior Writer, Business and Technology, WIRED
Martin Morgan, Chief Executive, Daily Mail and General Trust
Garrett Neiman, Co-founder and CEO, College Spring
Lynn O'Connor Vos, CEO, Grey Healthcare Group
Helen Wong, Partner, Qiming TMT Investment Team, Qiming Venture Partners

4:10 – 4:50pm **Human Values for a Technologized Age**
How do we think about technology differently as the world continues to be blighted by suffering, hatred and grotesque inequality? And what of privacy, distraction, and overweening corporate and government power? How can tech reaffirm fundamental human values? Does the tech industry and innovation community need a clearer focus?
Speakers: **Julie Hanna**, Executive Chair of the Board, Kiva; Presidential Ambassador for Global Entrepreneurship
Erica Kochi, Executive Director on Innovation and Co-founder, UNICEF Innovation
Rev. Michael C. McFarland, Treasurer, USA Northeast Province of the Society of Jesus; Former President, College of the Holy Cross

Moderator: **David Kirkpatrick**, Chief Technomist, Techonomy Media

4:50 – 5:00pm **180° Shifts**
Three minutes. One idea.
Reimagine. Reconsider. Rethink.

• **When Accelerating Slows You Down**

Traditional valley accelerators, by some accounts, are magical places, spinning pixie dust and foaling unicorns. But they don't work for everyone and flat out fail some.

Angela Benton, Co-founder and CEO, NewMe Accelerator

• **Cultured Meat: Imitation or Innovation?**

Researchers are developing new approaches to growing animal products like leather and meat without killing animals. The cooking from this kitchen, however, yields unexpected surprises.

Andras Forgacs, CEO, Modern Meadow

• **From Silicon Valley to the Arabian Gulf: Tech and Culture**

How do cultural assumptions and values inform technology use? What tactics do users from the Arabian Gulf draw from as they navigate social media and online gaming environments?

Sarah Vieweg, Scientist, Qatar Computing Research Institute

5:00 – 5:20pm

Incumbents and Upstarts: Media

From advertising to manufacturing and hospitality to security, yesterday's disruptors increasingly find themselves playing incumbent. The new evolve into the establishment. But big companies and small ones increasingly have to compete—and also partner—in all industries. It's not easy. Two ambitious media companies—one a venerable leader, the other a spunky newcomer—explain how their size and newness affect the way they see the world.

Speakers: **Margo Georgiadis**, President, Americas, Google

Martin Morgan, Chief Executive, Daily Mail and General Trust

Moderator: **Narry Singh**, Managing Director, Head of Digital Business for Europe, Africa and Latin America, Accenture Digital

5:20 – 5:40pm

Algorithms and Values at Facebook

The information that over 1.5 billion people see every day is determined by the algorithms embedded in Facebook's news feed. How do those algorithms work and what values do they embody? Adam Mosseri oversees the news feed.

A conversation with **Adam Mosseri**, Director of Product, Facebook

Interviewed by **David Kirkpatrick**, Chief Technomist, Techonomy Media

5:40 – 6:15pm

Gods in Boxes: Almighty Algorithms and Hidden Values

Much of what we see and learn is determined by increasingly complex algorithms. From news to auto emissions, from pricing to scheduling, tech largely indistinguishable from magic is selecting, editing, and organizing more and more of our daily lives. How do we ensure the values and beliefs we hold self-evident don't get lost in translation?

Speakers: **Oren Boiman**, Co-founder and CEO, Magisto

Ron Brachman, Chief Scientist, Yahoo!; Head, Yahoo Labs

Vivienne Ming, Co-founder and Executive Chair, Socos

Moderator: **Stratford Sherman**, Partner, Accompli

6:15 – 7:00pm

Opening Night Reception

Hosted by McKinsey & Company

7:15 – 8:45pm

Dinner

Hosted by Ericsson

8:45pm

Medicine, Economic Policy, Activism, and the Future: A Conversation with Sean Parker,

Founders Circle, Economic Innovation Group; Chairman, Brigade

Interviewed by **David Kirkpatrick**, Chief Technomist, Techonomy

MONDAY, NOVEMBER 9

7:00am **Registration Opens**

7:00 – 8:15am **Breakfast & Activities**

Breakfast Sessions

• **Self-Assembling Societies: Organizing for Action**

Tech is pollinating self-assembling societies in the physical world—communities of like-minded individuals gathering live and in-person to share ideas and drive action. How is tech reawakening that most basic of desires, to come together, to team, to dream and create a better world?

Speakers: **Eileen Guo**, Co-founder and President, Impassion Afghanistan

Peter Hirshberg, Chairman, Re:Imagine Group

Nuala O'Connor, President and CEO, Center for Democracy & Technology

K. Yatish Rajawat, Chief Strategy Officer, Local Circles

Sarah Vieweg, Scientist, Qatar Computing Research Institute

Moderator: **Gary A. Bolles**, Co-founder, eParachute; Co-producer, Closing the Gap

• **A More Equitable Distribution of Wealth: Smart Data, Better Credit**

In association with Omidyar Network

The vast majority of the world's population remains financially underserved. Ironically, for those to whom a loan, credit or startup investment would mean the most, their lack of traditional financial data poses the highest barrier; without a credit score they can't secure credit, without credit they can't build a credit score. New platforms are emerging, however, that turn that model on its head, using technology to build entirely new scores based on previously untapped rivers of data, scores that not only break down traditional barriers for deserving borrowers but allow lenders to lend with confidence previously unimaginable.

Speakers: **Brian Forde**, Director of Digital Currency, MIT Media Lab

Jonathan Hakim, President and CEO, Cignifi

Mike Mondelli, SVP, Financial Services Alternative Data, TransUnion; Co-founder, L2C

Jeff Stewart, Founder and Chairman, Lenddo

Moderator: **Tilman Ehrbeck**, Partner, Omidyar Network

8:15 – 8:30am **Switch Break**

8:30 – 8:40am **Welcome to Day Two**

David Kirkpatrick, Chief Technomist, Techonomy Media

8:40 – 9:05am **Brainworks I: Man and Machine**

What are the implications for humanity as neuro-tech improves, artificial intelligence becomes less "artificial" and the symbiosis between humans and our machines increases? What is DARPA doing?

A conversation with **Arati Prabhakar**, Director, DARPA

Interviewed by **David Kirkpatrick**, Chief Technomist, Techonomy Media

9:05 – 9:15am **180° Shifts**

• **How Much Is Your Vote Really Worth?**

Infrastructure investment is lagging across the United States, including the country's voting systems, central to our democracy. The majority are either close to or past their projected lifespans. What will it take to drag these antiquated systems into the present, and beyond?

Lawrence Norden, Deputy Director, Democracy Program at Brennan Center for Justice, NYU School of Law

• **Bugs, Brains and Business**

Nature avoids central command. It delegates and duplicates control mechanisms in systems as diverse as ant colonies and the brain. What can we learn from this for our own human systems?

Deborah M. Gordon, Professor, Department of Biology, Stanford University

9:15 – 10:30am The Digital Economy

The economy *IS* digital. It's not coming soon; it's *now*. What does that mean, for businesses, individuals and governments? And how can we work together to make sure the benefits, which are legion, have the widest, most substantive impact possible?

9:15am: Laying the Groundwork: **James Manyika**, Senior Partner, McKinsey & Company

9:25am: The Government's Perspective: An Interview with **Penny Pritzker**, United States' Secretary of Commerce

9:45am: The Corporate View: **John Chambers**, Executive Chairman, Cisco, **James Manyika**, Senior Partner, McKinsey & Company and **Jeroen Tas**, CEO, Healthcare Informatics Solutions and Services, Philips

10:15am: Q&A

Moderator: **David Kirkpatrick**, Chief Technomist, Techonomy Media

10:30 – 11:00am Break

Hosted by Steelcase

11:00am – 12:00pm TECHONOMY LABS

• **Brainworks II: Senses and Sensibility**

Brains and machines are converging, and it poses labyrinthian challenges. As understanding of the brain grows, it will change not only ourselves but the machines with which we work and upon which we increasingly rely.

Speakers: **Sir Colin Blakemore**, Professor of Neuroscience and Philosophy at the School of Advanced Study, University of London

Oren Boiman, Co-founder and CEO, Magisto

Pradeep Khosla, Chancellor, University of California, San Diego

Arati Prabhakar, Director, DARPA

Terrence J. Sejnowski, Professor and Laboratory Head, Computational Neurobiology Laboratory, Salk Institute for Biological Studies

Moderator: **Daniela Hernandez**, Science Journalist, Fusion

• **Catch Me If You Can**

"What I did in my youth is hundreds of times easier today. Technology breeds crime."

— *Frank W. Abagnale (swindler, author of "Catch Me If You Can")*

From the streets to the boardroom, tech informs and empowers both criminals and those who seek to stop them. Is the future of crime destined to be an escalating techno-arms-race, the same old cops-and-robbers just with cooler tools? Or can we look forward to a calmer, more civilized world in which criminality is rare and openness is the order of the day?

Speakers: **Nicole Eagan**, CEO, Darktrace

Victoria A. Espinel, President and CEO, BSA | The Software Alliance

David Johnson, Special Agent in Charge, FBI

Brian Kelly, Chief Security Officer, Rackspace

Elena Kvochko, Head of Global Information Security Strategy and Implementation, Barclays

Rowan Trollope, SVP and GM, Collaboration and IoT Technology Group, Cisco

Moderator: **Michael Patsalos-Fox**, CEO, Stroz Friedberg

• **Quantum Computing: Fast Forward to the Next Frontier**

Quantum theory continues to get experimentally reinforced—a strange unknown world where measuring things stabilizes them and where particles can become "entangled." It was such an offensive idea to Einstein he called it "spooky action at a distance." First generation quantum computers are here, and the race is on to unlock a transformative frontier of unimaginable computational power. It may remake communications and security. How altered might a quantum society be?

Speakers: **Vern Brownell**, President and CEO, D-Wave Systems

Bryan Jacobs, Advanced Technology Consultant, Berberian & Company

Mark Ritter, Senior Manager, Physical Sciences, IBM T.J. Watson Research Center

Moderator: **Michael J. Miller**, CIO, Ziff Brothers Investments; Blogger, PCMag

• **Scouting for Talent, Digging for Diversity**

In a world where the search for talent is fraught with bias, new approaches to tech-enabled "scouting" are emerging that aim to make hiring fairer. Algorithms and decision-support-systems comb through data, screening and refining in ways that help those doing the hiring refine their "gut" to avoid traditional bias traps. Will the calls to improve diversity lead to a new "HR" technology sector? Can tech truly tamp out bias?

Speakers: **Angela Benton**, Co-founder and CEO, NewMe Accelerator

Gary A. Bolles, Co-founder, eParachute; Co-producer, Closing the Gap

James Gardner, CTO, Mindjet; Chief Architect, Spigit

Laura Mather, Founder and CEO, Unitive

Moderator: **Lareina Yee**, Partner, McKinsey & Company

12:00 – 1:15pm

LUNCH

Hosted by Ford

1:30 – 2:15pm

IN PARALLEL

• **Beyond Silicon Valley**

Silicon Valley is often held up as the gold standard of revolution and transformation, but what if *replicating* the Valley isn't the point? Other hives of innovation and growth buzz around the country and in almost every city around the world. Where will innovation happen, and how will what we build change as its venue changes?

Speakers: **Marco Annunziata**, Chief Economist and Executive Director of Global Market Insight, GE

Sean Belka, SVP and Director of Fidelity Labs, Fidelity Investments

Jim McCarthy, Global Head of Innovation and Strategic Partnerships, Visa

Ken Washington, VP, Research and Advanced Engineering, Ford

Moderator: **Zachary Karabell**, Head of Global Strategy, Envestnet

• **Brainworks III: Intelligent Business Machines**

As our machines and their networks approach true "thought," they promise to become either independent actors in the social order or the ultimate enhancement of every human being. How are businesses harnessing this new intelligence?

Speakers: **Jag Duggal**, SVP, Product Management, Quantcast

Babak Hodjat, Co-founder and Chief Scientist, Sentient

George John, Chairman and Founder, Rocket Fuel

Jon Stein, Founder and CEO, Betterment

Moderator: **Jessi Hempel**, Senior Writer, Business and Technology, WIRED

2:15 – 2:30pm

Switch Break

- 2:30 – 3:10pm** **Change Is a Corporate Asset**
 An epidemic of “creative destruction” sparked by innovators and entrepreneurs is forcing corporate leaders and even the most eminent companies to be both visionary and courageous. Can corporate management change fast enough to meet new-age customer and stakeholder demands?
Speakers: **James Barrese**, CTO and SVP, Payment Services, PayPal
Kim Metcalf-Kupres, VP and CMO, Johnson Controls
Mike Sutcliff, Group Chief Executive, Accenture Digital
Rajat Taneja, EVP, Technology, Visa
- Moderator:* **David Kirkpatrick**, Chief Technomist, Techonomy Media
- 3:10 – 3:15pm** **180° Shifts**
 • **Start Your (Search) Engines**
 Never have we had greater, faster, more ubiquitous access to knowledge. Fat lot of good it does us, though, if we can't successfully find it when we want it. What is the greatest tool for search?
Tony Marx, President, The New York Public Library
- **Fashion vs. Tech: Who Will Come Out on Top?**
 A traditional industry needing “saving” has become a leader for bytes, bricks and silicon.
Liz Bacelar, Founder and CEO, Decoded Fashion
- 3:15 – 3:55pm** **Hunger, Health and the Future of Food**
 Feeding the world is, according to some, well within our grasp. Vast new indoor farms are being built around the world. Some say it will allow us to “program plants.” And genetic alteration of food sources opens other new horizons. For now, distribution remains the biggest challenge—how will we get the food where it needs to go while keeping it fresh and nutritious? Food technology is undergoing a renaissance.
Speakers: **Christina Agapakis**, Creative Director, Ginkgo Bioworks
Caleb Harper, PI and Director, Open Agriculture Initiative, MIT Media Lab
Drew Purves, Google DeepMind
- Moderator:* **David Kirkpatrick**, Chief Technomist, Techonomy Media
- 3:55 – 4:00pm** **180° Shifts**
 • **At the Crossroads of Tech and Identity**
 Man and machine are increasingly drawn together. What does that mean for culture? Can art and automation coexist? Who better to ask than an artist with a coder's DNA?
Benjamin De Kosnik, MFA Candidate, California College of the Arts
- 4:00 – 4:30pm** **The Right Now Movement: Mobility Transforms Industry**
 Empowered by the convergence of information and communication technologies, tribes of every kind are connecting, swarming, pushing and pulling industry and society. We increasingly now live in a mobile realm that is changing media, commerce, politics and society. How will the changing structure of our communications change business? And what will it mean for the world economy?
Speakers: **Peter Burman**, Head of Digital Development, Boliden
Geraldine Calpin, SVP and Global Head of Marketing & Digital, Hilton Worldwide
Erik Ekudden, SVP, Head of Group Technology Strategy, Ericsson
- Moderator:* **Michael Chui**, Partner, McKinsey Global Institute, McKinsey & Company
- 4:30 – 5:30pm** **Are We Optimizing the Future?**
4:30pm: Futurist, scientist, author and musician **Jaron Lanier** on tech’s continuing role in driving humanity forward.
4:50pm: **Steve Jurvetson** of DFJ and **Sir Colin Blakemore** of the University of London join to discuss what they’re excited about and what keeps them up at night.
5:20pm: Q&A

- 6:15 – 7:00pm** **Reception**
Hosted by Accenture Digital
- 7:15 – 8:45pm** **Dinner**
Hosted by Visa
- 8:45pm** **Evening Performance with Chuck Prophet**

TUESDAY, NOVEMBER 10

- 7:00am** **Registration Opens**
- 7:00 – 8:00am** **Breakfast & Activity**
- 7:30 – 8:45am** **Breakfast Session**
- What We've Learned So Far**
 A free-flowing conversation. What has bubbled up over the last 36-hours? What more do we need to be thinking about?
- Hosted by David Kirkpatrick, Chief Technomist, Techonomy Media*
- 8:45 – 9:00am** **SWITCH BREAK**
- 9:00 – 9:10am** **Welcome Back**
David Kirkpatrick, Chief Technomist, Techonomy Media
- 9:10 – 9:40am** **Optimus Prime: The CEO As Transformer**
 CEOs today must lead creatively, have as much EQ as IQ and thrive in a frenzied, revolutionary atmosphere. Everything about rapid change is anathema to traditional best practices. Today, the CEO as transformer, feeding on flux and relishing disruption, is what companies need to survive and thrive. (for the uninitiated, Optimus Prime is the just and moral leader of The Transformers)
- Speakers: John S. Chen*, Executive Chairman and CEO, BlackBerry
Bernard J. Tyson, Chairman and CEO, Kaiser Permanente
- Interviewed by David Kirkpatrick, Chief Technomist, Techonomy Media*
- 9:40 – 9:50am** **What Business Can Learn from Social Movements**
A presentation by John Hagel III, Co-chairman, Center for the Edge
- 9:50 – 10:00am** **180° Shifts**
- **Open, Sesame**
 The robots are coming, the robots are coming! It may surprise you to learn about the operating system many of them are running, though.
Brian Gerkey, Founder and CEO, Open Source Robotics Foundation
 - **Material Miracles**
 Silicon, the stuff upon which the Valley was built, is maxing out. The future, according to some, belongs to gallium nitride. What is it, and what does it mean?
Alex Lidow, CEO and Co-founder, Efficient Power Conversion
 - **Quantum Leaps**
 For those of us with a natural aversion to physics the idea of quantum computing can be a real brain buster. How does this stuff work, and what are the real, immediate opportunities in store?
Mark Ritter, Senior Manager, Physical Sciences, IBM T.J. Watson Research Center

10:00 – 10:25am The Imitating Nature Game

Will insect swarm logic be the key to better energy management? Can slime mold and mushrooms end our reliance on blacktop and cement? From packaging to turbulence, urban planning to leadership, what can we learn from the problem-solvers of the natural world?

Speakers: **Deborah M. Gordon**, Professor, Department of Biology, Stanford University
Beth Rattner, Executive Director, Biomimicry Institute

Moderator: **Jon Bruner**, Director, Hardware and IoT, O'Reilly Media

10:25 – 10:30am Do a Moonshot

Facing today's grand challenges with moonshots and 10x strategies, rather than incremental approaches, will lead to real solutions and new business models.

A presentation by **Jack Hidary**, Chairman, The Hidary Foundation; Senior Advisor, Google X

10:30 – 10:35am Next3B: A Catalyst for Economic and Social Change

It took 40 years for the first 3 billion people to connect to the Internet. The next 3 billion will join in less than 10. But that can enable giant leaps in the global financial inclusion, education and health.

A presentation by **Rangu Salgame**, CEO, Growth Ventures and Service Provider Group, Tata Communications.

10:35 – 11:15am The Future of Reality: Will Seeing be Believing?

Augmented and virtual reality interfaces will almost certainly be how we interact with devices in the future. They will remake not just entertainment, but work, learning, health, and day-to-day living. What will be the cyber-worlds, cyber markets and cyber governments of the future?

Speakers: **Michael Buckwald**, Co-founder and CEO, Leap Motion

Glen Fields, Vice President, Sales and Business Development, DAQRI

James Robb, Rear Admiral USN (Ret.), President, National Training and Simulation Association

Moderator: **Mary Lou Jepsen**, Executive Director of Engineering, Facebook; Head of Display Technologies, Oculus

11:15am – 12:00pm Customer Connection is the Heart of the Internet of Things

The CEO of Salesforce joins one of the company's top engineers (himself an industry legend) to discuss why serving customers well will increasingly involve a deep integration with the Internet of Things. As the world gets more connected, and all its parts communicate with one another, we need to rethink what software means in business, in society and for human values.

A conversation with **Marc Benioff**, Chairman and CEO, Salesforce and **Adam Bosworth**, EVP, IoT Cloud, Salesforce.

Interviewed by **David Kirkpatrick**, Chief Technomist, Techonomy Media

12:00pm Closing Remarks

