

# MCKINSEY: PROFIT FROM FOUR DISRUPTIVE TECHNOLOGIES

Luncheon/Webcast • February 5, 2015 • Penn Club



## Abstract

Building upon the McKinsey report, *Disruptive Technologies: Advances that will transform life, business, and the global economy*, this presentation will focus on four disruptive technologies relevant to chemicals/advanced materials:

- Additive manufacturing (also known as 3D printing)
- Advanced materials, e.g., carbon nanotubes and graphene
- Next-generation genomics
- Shale oil & gas exploration and recovery

Their disruptive potential is assessed along three dimensions:

- Market growth: How explosive could it be?
- Technology: Are new applications required? To what extent could these technologies replace existing technologies?
- Business models/value chains: Could the current value chains (from building blocks to intermediates and formulations to end users) change dramatically based on these technologies?

Join us to learn the critical issues related to these industry game changers. Moderated by **Sam Samdani**, the panelists are: **Chris Krampitz**, Strategy Manager, Digital Manufacturing Technologies, UL (Underwriters Laboratories), **Mishele Lesser**, program director of The Multicultural Matrix, and **Miguel Mireles**, business development, chemicals and materials, Grace Matthews.

## Biography



**MODERATOR: G. Sam Samdani, PhD**, is a senior knowledge expert at McKinsey & Company, a global management consulting firm. His responsibilities include leading the specialty chemicals service line in the Americas and providing thought leadership across a range of complex knowledge domains within the firm's Chemicals & Agriculture Practice. His views on the performance and health of the global chemical industry have been published in *Chemical Week* and other publications. He has also co-authored a book, *Going Digital: Realizing the Dreams of a Digital Bangladesh for All*. He received his BS in chemical engineering from Yale University, and PhD in chemical engineering from the University of Rochester.

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## Event Schedule

### Location:

Penn Club  
30 W 44th Street, NYC

### Event Times: (ET)

11:15 am - 12:00 noon  
Registration and  
Networking

12 noon - 1 pm Luncheon

1 pm - 2 pm Talk - Webcast

### Luncheon Fees

\$110 for non-members

\$80 for members

Check for Early-bird savings

Webcast : \$30



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**Farren Isaacs** is assistant professor of Molecular, Cellular and Developmental Biology and Systems Biology at Yale University. His research is focused on finding ways to construct new genetic codes and reprogrammable cells that serve as factories for chemical, drug and biofuel production. As a research fellow in genetics at Harvard, he invented enabling technologies for genome engineering. He received a B.S.E in Bioengineering from the University of Pennsylvania and Ph.D. in Biomedical Engineering-Bioinformatics at Boston University.



**Chris Krampitz** has over 20 years of experience innovating manufacturing and materials sciences. He leads innovation and strategy at Underwriter Laboratories (UL) Digital Manufacturing Technologies division. Chris consulted for 10 years on chemical, materials and biomedicine. He was a research engineer and technology advisor in the oil & gas and manufacturing industries. Chris earned an MBA/PhD in strategic management & asset pricing from The University of Chicago Booth School of Business. He holds a B.S. in Chemical Engineering from Texas A&M University.



**Miguel Mireles** develops business in chemicals and materials at Grace Matthews on select buy and sell-side engagements. Mireles was a VP and Head of Business Development at Xolve, a venture company that disperses graphene and other nanocarbons into thermoplastics and thermosets for a variety of automotive, industrial and consumer applications. He worked in fundraising and IP strategy. He holds a B.S. in Chemical Engineering (Texas Tech University), an M.B.A. (University of Wisconsin-Madison), and a Juris Doctorate (U. of Wisconsin Law School). He clerked for 2 Vault 100 law firms.

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