



**MIT**  
**Communications**  
**Futures Program**

# Today's agenda

**8:00 Charlie Fine: Introduction to CFP**

**8:15 CFP Future of television research**

- **Steve Bauer: Network Implications of the TV Experience**
- **Karen Sollins: Privacy & Identity Implications of Social TV**
- **Natalie Klym: Industry Dynamics**
- **Andy Lippman: Ultimate TV**

**9:25 Questions about our program?**

**9:30 Adjourn**



*Every sector of the economy and all aspects of society now depend on communications. Conversely, our communications systems designs impact every dimension of our lives.*

# Overview

- CFP is a multidisciplinary, cross-cutting examination of the communications industry
- Our vision is to build guiding theories about how communications will work for people and industry. Our means is *roadmapping – exploring and analyzing the options and their impact*
- The CFP is a partnership between university and industry. Our industry partners include:
  - Cisco
  - Comcast
  - ESPN
  - NBCU
  - Nokia Siemens Networks
  - Samsung
  - Telecom Italia
  - USPS

# Leadership

An interdisciplinary team from MIT heads the program

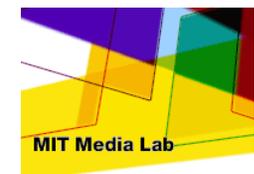
- Charles Fine, Chrysler LFM Professor, MIT Sloan School of Management
- David Clark, Senior Research Scientist, MIT Computer Science and Artificial Intelligence Laboratory
- Andrew Lippman, Senior Research Scientist, MIT Media Laboratory



Charles Fine



David Clark



Andy Lippman

# Operations

## Working Groups

- Industry participants engage closely with faculty in the research and provide valuable input into the direction and content of the program.
- Co-chaired by faculty and industry sponsors.
- Groups are launched as new issues emerge and disbanded as issues become less relevant or research is completed.
- Regular meetings (face-to-face and/or concall)

## Member meetings

- Plenaries plus workshops – next workshop is June 27, 2013
- Held at MIT & member locations
- Working group reporting, guest speakers, interactive sessions

## Research

- All research (papers & presentations) are available exclusively to CFP members on our Web site: <http://cfp.mit.edu>

# Working Groups

## **Value Chain Dynamics**

*Charlie Fine & Natalie Klym*

- Examine business models and industry dynamics

## **Privacy and Security**

*Karen Sollins*

- Examine the value of authenticated identity inside the network

## **Interconnection, Spectrum, Future Internet, Mobile Broadband**

*Dave Clark & Bill Lehr*

- Analyze interconnection issues including overlays and peering, shared spectrum, new architectures, usage-based pricing

## **Viral Spaces**

*Andy Lippman*

- Invent and prototype scalable, user-designed communications systems with no centralized infrastructure or management

# CFP Value

- **Insight and analysis:** MIT researchers develop ideas in collaboration with our industry partners. We carry these through to create models and detailed analyses.
- **Exchange of ideas among academia and industry:** Our members have the opportunity to workshop specific issues they are grappling with inside their organizations with the larger group. This makes CFP an ideal place to test new ideas.
- **Validation:** The ideas developed through CFP activities are captured in papers that our member participants can distribute internally.
- **Social networking:** Through our various meetings, our members have the opportunity to connect with academics, policy makers, and industry peers.