

Your Bridge to the Future

Introductions and Welcome

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TFI 2019

January 24-25, 2019
Marriott Courtyard Downtown
Austin, Texas

84 Waller St • Austin, Texas 78702 (512) 258-8898 • www.tfi.com



Housekeeping

- Welcome
- Lunch and Reception
- Evaluation Sheets
- Professional Recording and Streaming





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In honor and recognition of the legacy of Maura Binkley



The foundation's work is to address the issues of violence and hate in our society, including Maura's Voice Research Fund at Florida State University.

Only Love Can Conquer Hate

TFI 2019



- 8:30 am Introductions and Welcome
- 8:45 am TFI Industry Forecast Overview
 - Lawrence Vanston, President, TFI
 - Ray Hodges, Senior Consultant, TFI

9:45 am *Break*

5G WIRELESS

10:00 am 5G: The Big Picture

lain Gillott, President and Founder, iGR

10:45 am 5G Equipment: What on Earth does this Stuff Look Like?

Robert Daniels, Vice President, PHAZR

11:00 am *Break*



11:15 am Coloring in the 5G Triangle: Super High Bandwidth, Massive IoT, and Ultra High Reliability

- Robert Heath, Professor of Electrical and Computer **Engineering, The University of Texas**
- Salam Akoum, Principal Member of Technical Staff, AT&T Labs
 - Robert Daniels, Vice President, PHAZR
 - Iain Gillott, President and Founder, iGR

12:30 pm Texas BBQ Lunch - Sponsored by Maura's Voice - Gatehouse



1:15 pm Wireless Futures Research - Connected Aerial **Vehicles and Machine Learning for Communications**

Robert Heath, Professor, UT

1:45 pm 5G Data Fast: Fiber Optics and Edge **Computing - Panel discussion**

- Randy Cook, Sales, Affirmed Networks
- Jim Stegeman, President, CostQuest
- Iain Gillott, President and Founder, iGR

2:30 pm *Break*



- 2:45 pm The 5G Spectrum Puzzle
 - Brian Goemmer, President, Allnet Insights & Analytics
- 3:15 pm The 4G to 5G Transition
 - Iain Gillott, President and Founder, iGR
- 3:45 pm Wireless vs Wireline
- Lawrence Vanston, President, TFI
- Iain Gillott, President and Founder, iGR
- 4:00 pm *Break*



4:15 pm Why Does It Matter? And How? A Tax/Valuation Perspective I

- Ruben Miranda, Director, Tax Services, Duff & Phelps
- Gary Wiggins, Executive Director, Property Tax, AT&T
- Stephen Yergeau, Director, Property Taxes, T-Mobile

5:00 pm The IRS and the Data Mess

• Kim Houser, Assistant Professor, Oklahoma State University

5:30 pm Day End

6:00 pm Conference Reception - Rooftop (Gatehouse if cold or rainy)



Friday, Jan 25, 2019

BROADBAND & VIDEO

8:30 am Communications Technology Update

 August (Augie) Grant, Professor, University of South Carolina

9:15 am Fiber Deep: Broadband Industry Risks and Economics

Jim Stegeman, President, CostQuest

10:00 am *Break*

10:15 am Policy Fireside Chat

- Mignon Clyburn, Former Commissioner, FCC
- Jim Stegeman, CostQuest Associates, Inc.

11:15 am *Break*



Friday, Jan 25, 2019

- 11:30 am Why Does It Matter? And How? A Tax/Valuation Perspective II
 - Jeffrey Binkley, CEO, Assessment Valuation Advisors
 - Carl Hoemke, Partner, Valentiam Group
 - John Reed, Sr. Director Property Tax, Charter
- 12:15 pm Last Word: The Assessor Perspective
 - Peggy Wardlaw, Founder, Wardlaw Appraisal Group
- **12:30 pm Break**
- 12:35 pm Box Lunch Discussion Rio Grande Ballroom Getting out of the Aligator Pit and Moving Forward
 - Carrie Vanston, The Energy Accelerator
- 1:25 pm Conference Ends



www.tfi-ctfg.com



Just Two Weeks Before the TFI Technology Conference in Austin (Jan 24-25)

► Uncategorized

hmvmarek

Ø Edit

Only two more weeks until the 14th Annual TFI Technology Conference! There's still time to register and join us Jan. 24-25 in Austin for the top technology conference on the latest trends impacting communications and asset valuation. Sponsored by Duff & Phelps, CostQuest, and AVA.

Don't miss this opportunity as we tackle:

• The pivotal wireless technology 5G and its tremendous implications for the communications industry. Led by wireless consultant extraordinaire, Iain Gillott of iGR and UT Professor



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Communications Technology Forecasting Group (CTFG)

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- AT&T
- Charter Communications, Inc.
- Comcast Corporation
- Cox Communications, Inc.



Technology Futures, Inc.

- Founded 1978
- Technology Forecasting
- Depreciation and Valuation
- Communications, IT, High Tech, Energy
- First Wave Transitions
- Next Wave Transitions



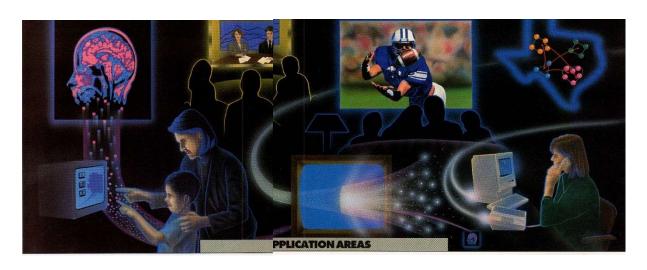
First Wave Transitions - 1990s ->

Physical Movement Telecommunications

Analog Digital Communications

Low Bandwidth High Bandwidth

Wireline Wireless





New Wave Transitions – 2015→

Humans Robots, Drones, Autonomous Vehicles

People Communicating Things Communicating (IoT)

Human Programming AI /Cognitive Computing

Screen-based Augmented/Virtual Reality







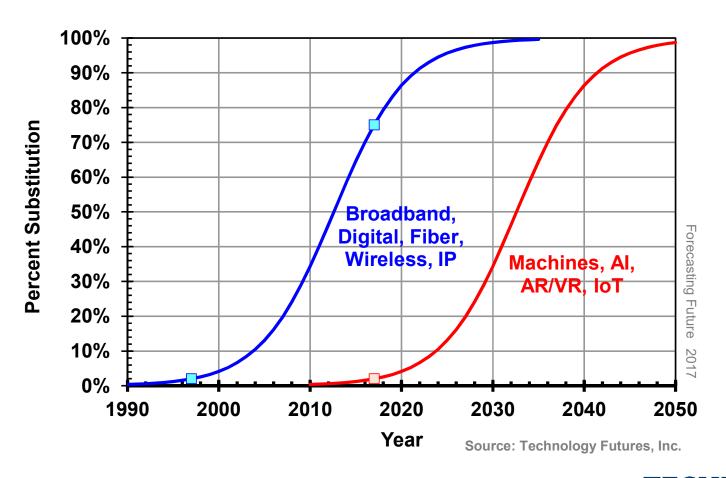








Preliminary Forecast for the Adoption of Al and Related New Wave Technologies





NEXT WAVE

FIRST WAVE



TECHNOLOGY FUTURES INC.

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