

TECHNOLOGY FUTURES INC.

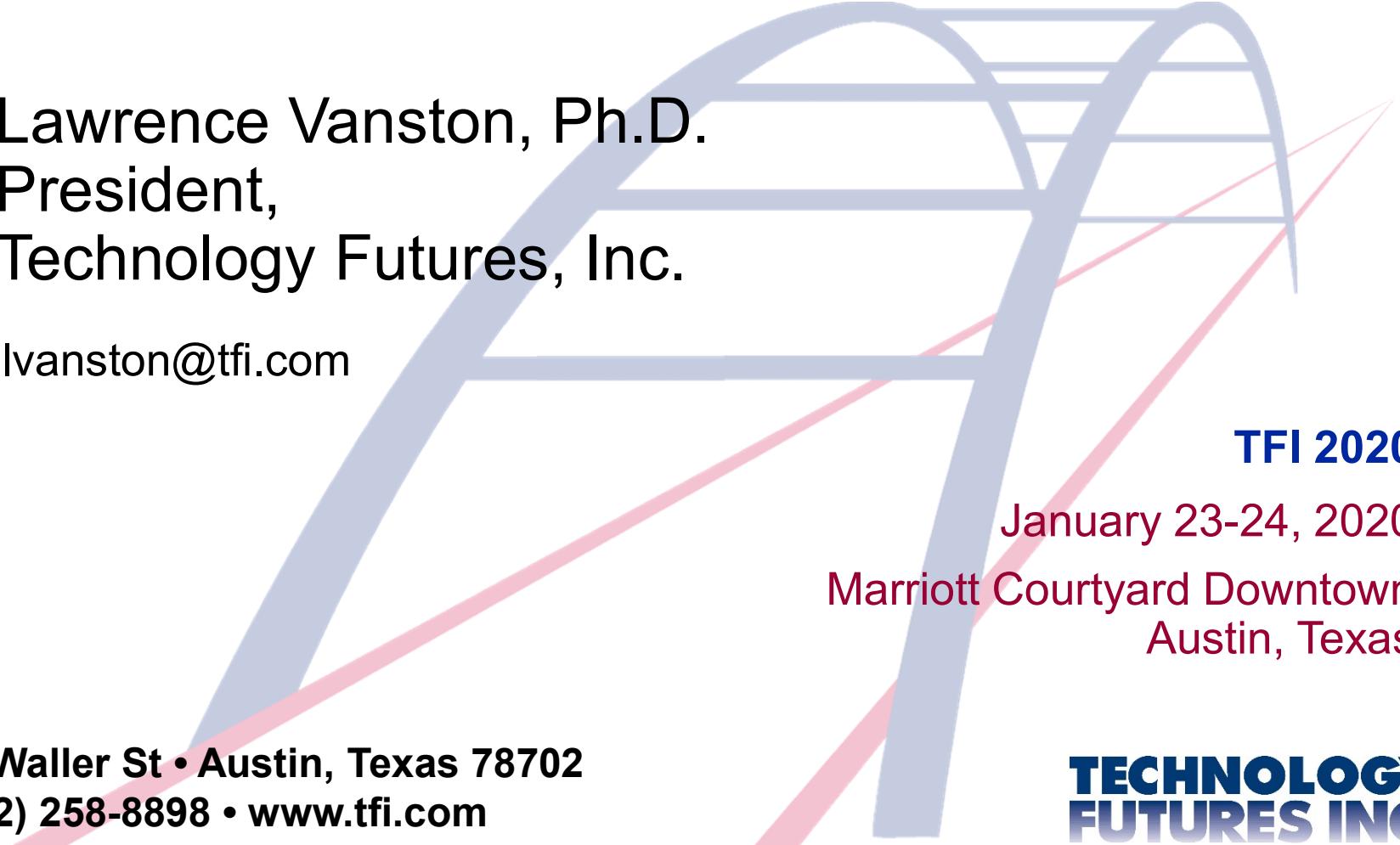


Your Bridge to the Future

Introductions and Welcome

Lawrence Vanston, Ph.D.
President,
Technology Futures, Inc.

Ivanston@tfi.com



TFI 2020

January 23-24, 2020

Marriott Courtyard Downtown
Austin, Texas

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

**TECHNOLOGY
FUTURES INC.**

Housekeeping

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

15th Annual

TFI

**Technology
Conference**

January 23-24, 2020
Austin, Texas

SPONSORS



DUFF & PHELPS



THANK YOU!

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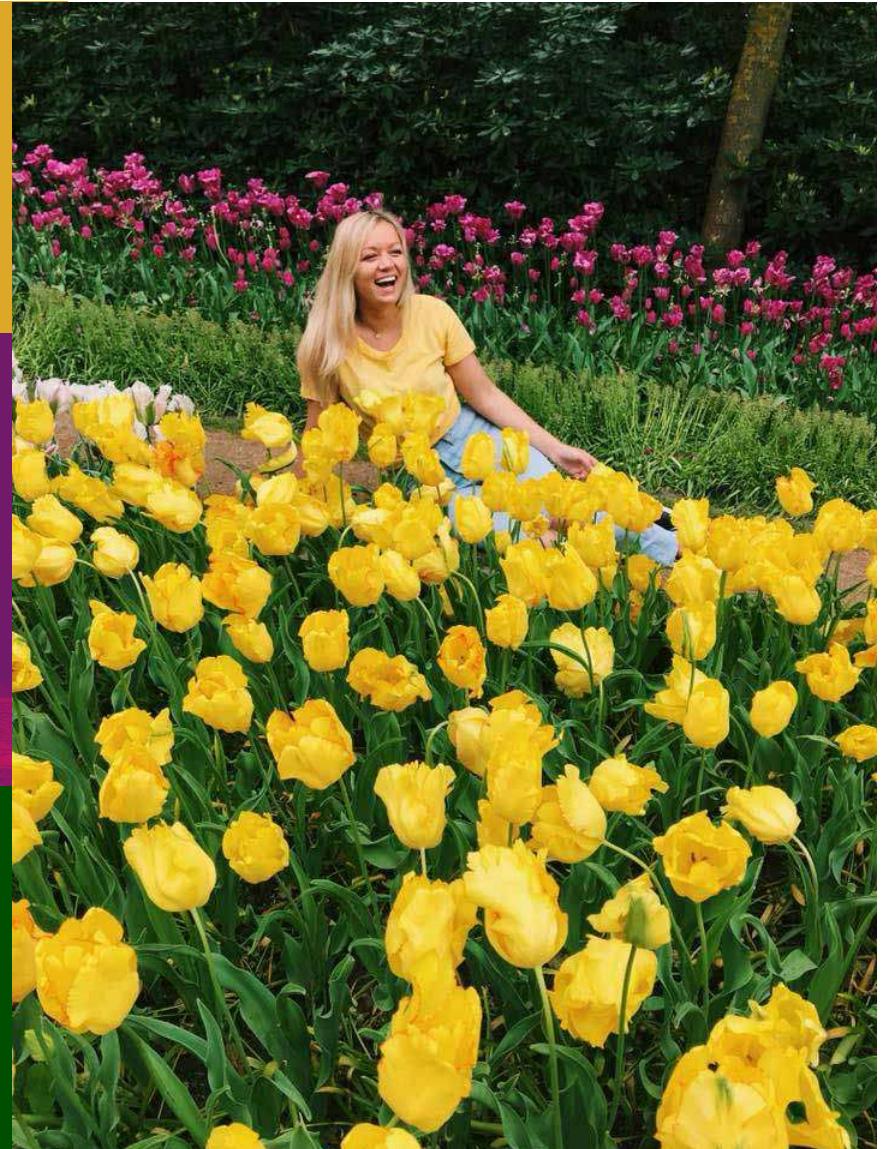
MAURA'S
VOICE



A VOICE
FOR CHANGE

Striving for a world without violence.

- Increase Awareness
- Support Research
- Make a Change



maurasvoice.org

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TFI 2020

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TFI Industry Forecast Overview

- **Lawrence Vanston**, President, TFI
- **Ray Hodges**, Senior Consultant, TFI

Wireless Keynote: Defining Actual 5G and What it Might Do

- **Mike Dano**, Editorial Director, 5G & Mobile Strategies at *Light Reading*

Recent Federal & State Broadband Activities

- **Jim Stegeman**, President, CostQuest Associates

Spectrum Pricing Update

- **Ruben Miranda**, Duff & Phelps

Lunch – Sponsored by Maura's Voice (Gatehouse)

Broadband Keynote: Broadband to the Vineyard: Perspectives from a Rural Wireless Provider

- **David McCullough**, Co-Owner, Hill Country Wireless & Technology

Wireless Industry Panel / Implications for Tax & Valuation

- **Ruben Miranda**, Duff & Phelps
- **Gary Hunter**, AT&T
- **Stephen Yergeau**, Director, Property Taxes, T-Mobile

Broadband Industry Panel / Implications for Tax & Valuation

- **Jeffrey Binkley** (Moderator)
- **Carl Hoemke**, Valentiam Group
- **Christian Altenburger**, Comcast
- **John Reed**, Charter
- **Gary Hunter**, AT&T

U.S. Economic Outlook

- **Michael A. Sadler, Ph.D.**, Department of Economics and Department of Finance, McCombs School of Business, University of Texas at Austin

6:00 pm Conference Reception *Gatehouse*

Communications Technology Update

- **August (Augie) Grant, Ph.D.**, Professor, School of Journalism and Mass Communications, University of South Carolina; Co-Editor, *Communications Technology Update and Fundamentals*

Policy Keynote: Communications Equipment Price Indices: Under the Hood with an Expert

- **Vincent Russo**, Chief, Section of Durable Goods, Producer Price Index, U.S. Bureau of Labor Statistics

The Innovation Winter is Coming: Implications of the U.S.-China Trade War

- **Kim Houser**, Assistant Professor, Oklahoma State University

The Last Word

- **Peggy Wardlaw**, Founder, Wardlaw Appraisal Group, LC.

Box Lunch Discussion



Communication Assets Outlook
Trends and developments impacting the technology assets of the communications industry

Home Cable TV Telecom Wireless LD Broadband Video Voice IT Valuation A New World 

About [2018 TFI Conference Slides, Video, Photos & Bios](#) [2017 TFI Conference Slides, Videos, Photos & Bios](#)

[2016 TFI Conference Slides, Videos, Photos & Bios](#) [2015 TFI Conference Slides, Videos, Photos & Bios](#) [2014 TFI Conference Slides, Videos & Bios](#)

TFI Technology Conference – Jan 23-24, 2020

⌚ August 9, 2019 📄 Uncategorized 🚩 hmvmarek 🖍 Edit

Great News! We've set the dates for the **15th Annual TFI Technology Conference** for Jan 23-24, 2020 in exciting downtown Austin. Please mark your calendars!

Industry thought-leaders and professionals gather once again to share the latest trends and developments impacting communications and asset valuation.

Stay tuned as we schedule keynotes, speakers, and panelists for the 2020 *TFI Technology Conference*. Visit our [2019 conference page](#) to see the schedule and list of impressive speakers from our most recent conference in January 2019.

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Communications Technology
Forecasting Group (CTFG)

Communications Technology Forecasting Group (CTFG)

- 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

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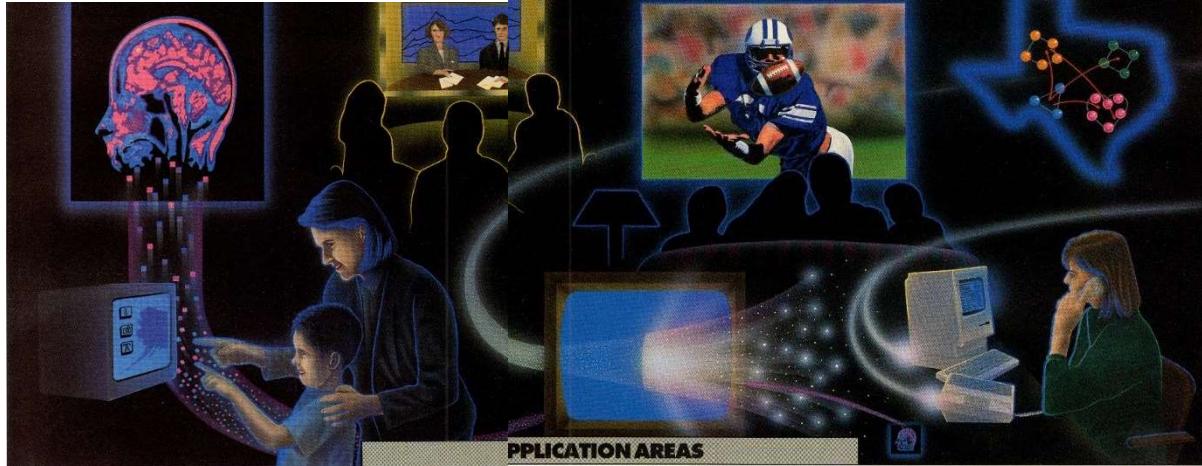
First Wave Transitions - 1990s→

Physical Movement → Telecommunications

Analog → Digital Communications

Low Bandwidth → High Bandwidth

Wireline → Wireless



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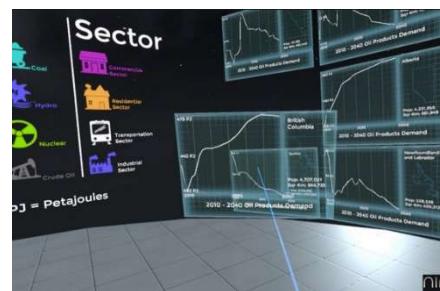
New Wave Transitions – 2015→

Humans → Robots, Drones, Autonomous Vehicles

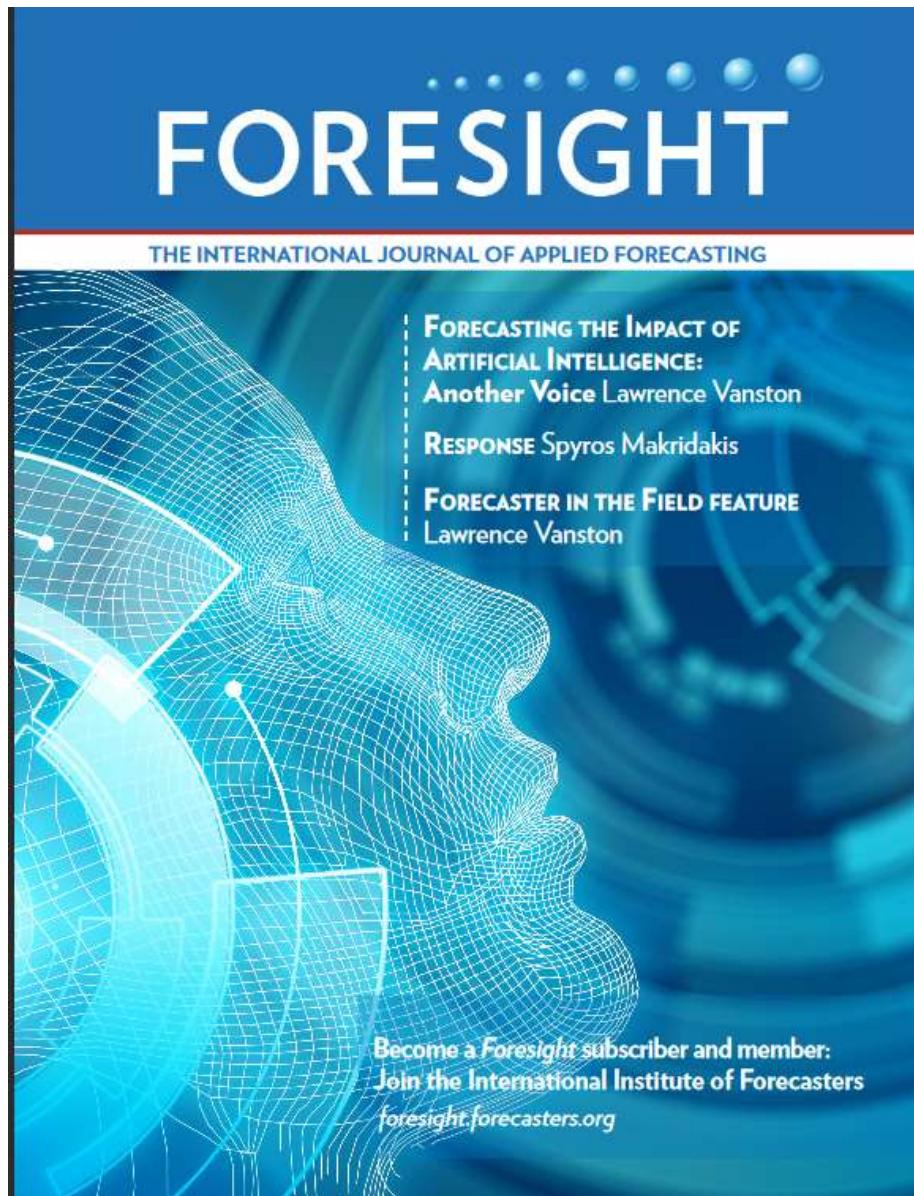
People Communicating → Things Communicating (IoT)

Human Programming → AI /Cognitive Computing

Screen-based → Augmented/Virtual Reality



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tfi.com/AI_Foresight_Vanston.pdf

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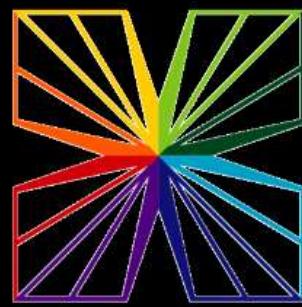
FISTERRA PROJECTS

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Fisterra promotes personal and social well-being on a community, national, and global scale through the arts, aided by science and technology. We are caring, polymath people with a range of interests working together on innovative projects that benefit society.

fisterra
studio

ART
84



XYZ ATLAS

DRAW
TOGETHER



~WILKINSBURG~
The space between us is sacred.
SACRED SPACES TOUR

2019 EAST Austin Studio Tour



Melanie Hickerson
melaniehickerson.com



Kim Eitze
hennakim.com



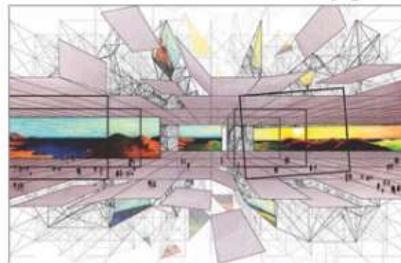
Randall Soileau
randallsoileau.com



Justin C Gordon
studiojcg.com



Yoyo Pong
behance.net/Yoyo-Pong



2019 EAST
Austin Studio Tour
Nov 16-17 & 23-24
Noon -6:00 pm
Stops #500-511



Luna Davis
@diiscohell



Eve Larson
evelarson.com



Helen Mary V. Marek
vanmarek.com



Digital Drawing Room
freerverbs.com



Art from the Streets
artfromthestreets.org

art84.org

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CARRIE VANSTON THE ALLIGATOR WRANGLER

Carrie Vanston · 1st 

The Alligator Wrangler: I help CEOs & Professionals shift the fixed "alligator pit" mindset to an energized mindset!

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Rapid Growth Academy

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