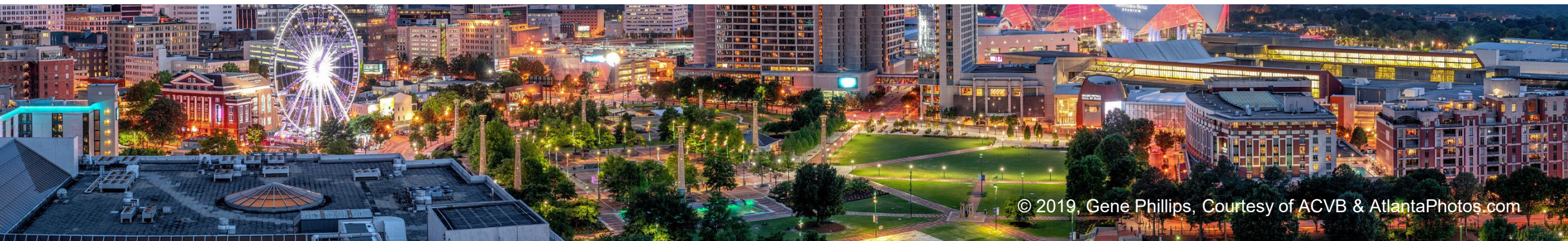




2021 RFIC Symposium Overview

Brian Floyd
2021 RFIC General Chair



Two Events: In-Person and Virtual RFIC

In-Person RFIC+IMS Symposium 7-9 June 2021 Atlanta, GA	Timeslot	Mon 7 June 2021	Tue 8 June 2021	Wed 9 June 2021	<p>© 2019, Gene Phillips, Courtesy of ACVB & AtlantaPhotos.com</p>
	AM1	–	3 Sessions	3 Sessions	
	PM1	2 Lectures	3 Sessions	3 Sessions	
	PM2	2 Lectures	3 Sessions	–	
	Evening	Plenary + Reception	Receptions	Banquet	
	All day	–	EXHIBITION		

Virtual RFIC Symposium 20-25 June 2021 	Timeslot	Sun 20 June 2021	Mon 21 June 2021	Tue 22 June 2021	Wed 23 June 2021	Thu 24 June 2021	Fri 25 June 2021
	10:00AM-11:40AM	Symposium Showcase	Plenary	4 Sessions	5 Sessions	5 Sessions	RFIC HD Workshops (10AM-2PM)
	11:40AM-12:30PM		AUTHOR LOUNGE SESSION and BREAK				
12:30PM-2:30PM	3MT Program	Lecture (Asbeck)	Lecture (Lin) Panel	Lecture (Afshari) Panel	Lecture (Arbajian) Demo Forum	RFIC FD Workshops (10AM-4PM)	

Plenary Speakers for RFIC & IMS 2021

In-Person Plenary: 7 June 2021
+ On-demand for Virtual



**New Horizons for
mmWave Sensing**

Ahmad Bahai
*Chief Technology Officer
Texas Instruments*



**Reimagine the Future -
Smart & Connected
Solutions**

Suresh Venkatarayalu
*Chief Technology Officer
Honeywell*

Virtual Plenary: Live Streamed, 21 June 2021



**Transceiver Roadmap for
2035 and Beyond**

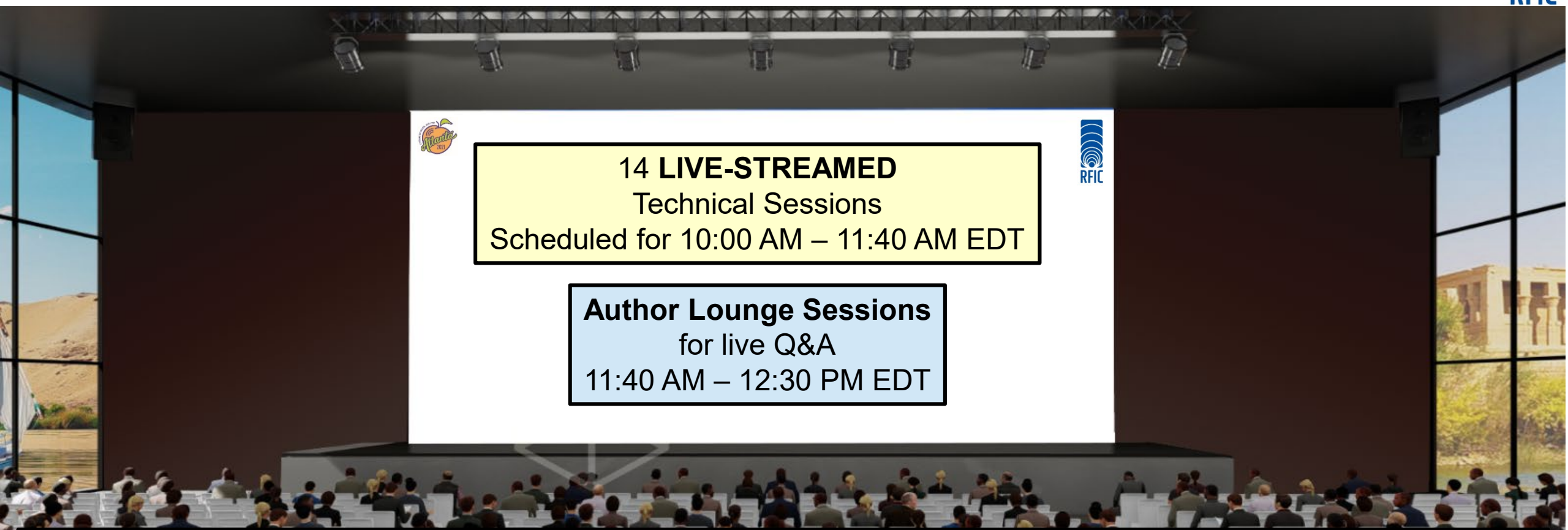
Bram Nauta
*Distinguished Professor
University of Twente*




**5G and Beyond: Enabling a
Fully Connected, Mobile, and
Intelligent Society over the
Next Decade**


Asha R. Keddy
*Corporate Vice President
Intel Corporation*

Technical Sessions at Virtual RFIC 2021





14 LIVE-STREAMED
Technical Sessions
Scheduled for 10:00 AM – 11:40 AM EDT



Author Lounge Sessions
for live Q&A
11:40 AM – 12:30 PM EDT

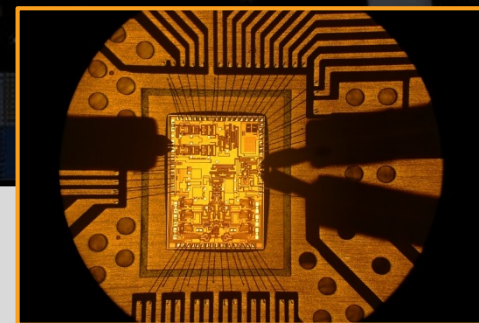
Tuesday, 24 June 2021
 RTu1E — *Circuits and Systems for Microwave and mmWave Sensing, Radar and Communications*
 RTu1F — *High Performance mmWave Front-End Circuits*
 RTu1G — *Advanced Techniques for Power Amplifier Modules, Sub-THz and BIST*
 RTu4F — *High-Performance Frac-N PLLs & Building Blocks*

Wednesday, 23 June 2021
 RTu1H — *Advanced N-Path Techniques and Associated Interference Mitigation*
 RTu2E — *mmWave Circuits for 5G Systems*
 RTu2F — *mmWave and Sub-THz Power Amplifiers*
 RTu2G — *Techniques for High-Speed Transceiver Front-Ends*
 RTu2H — *New Design Techniques for Frequency Generation*

Thursday, 24 June 2021
 RTu3E — *CMOS Transmitters and Amplifiers RF to mmWave*
 RTu3F — *RF and mm-Wave VCOs*
 RTu3G — *RF Systems for Emerging Wireless Applications*
 RTu4E — *mm-Wave Circuits for Emerging Applications*
 RTu4G — *Efficient Radios for IoT, GPS, WiFi, and Cellular*

Workshops at Virtual RFIC 2021

12 LIVE-STREAMED
 RFIC Workshops
 Friday, 25 June 2021
 Full-day: 10:00 AM – 4:00 PM EDT
 Half-day: 10:00 AM – 2:00 PM EDT



Friday, 25 June 2021

- WSA Low Power Radios and Wireless Technologies for Indoor Positioning and Localization
- WSB 100-300GHz mm-Wave Wireless for 0.1-1Tb/s Networks
- WSC CMOS mm-Wave Imaging Radars: State-of-the-Art and a Peek into the Future!
- WSD Coherent Optical Communications for Cloud Data Centers, Metro, and Submarine Networks
- WSE Cryogenic Electronics for Quantum Computing and Beyond: Applications, Devices, and Circuits.
- WSF Fully Integrated Silicon vs. Hybrid RFFE Systems for mm-Wave 5G highly efficient PA Design Trade-offs
- WSG Highly Linear and Linearized Power Amplifiers for mm-Wave Communications
- WSH MIMO and Digital Beamforming Systems for 5G and Beyond
- WSI mm-Wave Phased-Array Transceiver Design: From Basics to Advancements
- WSJ Recent Advances in Frequency Generation Techniques for sub-6GHz, mm-Wave, and Beyond
- WSK Satellite Systems: A Top-Down Review of Satellites, Space Communication and Hardware
- WSL Sub-6GHz Advanced Transmitter Architectures and PA Linearization Techniques

Technical Lectures at Virtual RFIC 2021



Monday, 21 June 2021
**A Tour Through
 the World of
 Si IC Power Amplifiers**

Peter Asbeck
 Professor, UC San Diego



Tuesday, 22 June 2021
**Micro-Motion Sensing
 Radar —Theory, System
 Architectures, and Circuit
 Implementations**

Jenshan Lin
 Professor, Univ. Florida



Wednesday, 23 June 2021
**Fully Integrated
 Terahertz Imaging and
 Spectroscopy:
 From Device to System**

Ehsan Afshari
 Professor, Univ. Michigan



Thursday, 24 June 2021
**mm-Wave “Wireless
 Fiber” to Meet the
 Capacity Demands of
 Future Networks**

Amin Arbabian
 Assoc. Professor, Stanford

Panels at Virtual RFIC 2021

Tuesday, 22 June 2021, 12:30–2:00 PM EDT

RF-Microwave Startups: A Dead Horse in the Era of Software Unicorns and Pandemics?



Panel Organizers and Moderators:

- Oren Eliezer, Joseph Cali, François Rivet, Jacques C. Rudell, Jim Ahne

Panelists:

- Amitava Das, *Tagore Technology*
- Joy Laskar, *Maja Systems*
- Wouter Steyaert, *Tusk IC*
- Tomi-Pekka Takalo, *CoreHW*
- Harish Krishnaswamy, *MixComm*

Wednesday, 23 June 2021, 12:30–2:00 PM EDT

Automotive Radars and AI: Is My Car Really Safe?



Panel Organizers and Moderators:

- François Rivet, Magnus Wiklund

Panelists:

- Margaret Huang, *Intel*
- Karam Noujeim, *Anritsu*
- Juergen Hasch, *Bosch*
- Manju Hedge, *Uhnder*
- Mohammad Emadi, *Zadar Labs*
- Yue Lu, *DiDi Chuxing*

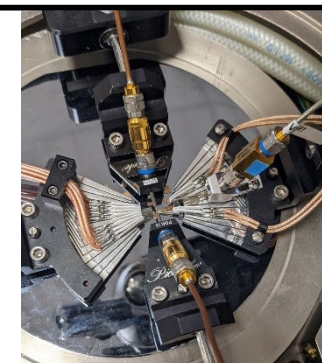
Additional Virtual RFIC 2021 Events



Symposium Showcase

Featuring best student & industry papers
Sunday, 20 June 2021, on-demand promo videos

NEW! ***Systems & Application
Demonstration Forum***
Thursday, 24 June 2021



Three-Minute Thesis (3MT®) Contest
Sunday, 20 June 2021



Registration Options for RFIC 2021



Category	MTTS Member	IEEE Member	Non-Member
In-person RFIC/IMS with access to virtual RFIC Symp.*	\$190	\$215	\$285
STUDENT rate for above**	\$50	\$75	\$100
Virtual RFIC Symposium*	\$320	\$360	\$545
STUDENT rate for above**	\$110	\$135	\$225
All-Workshop Pass (>30 IMS+RFIC workshops, Sun/Mon/Fri)	\$295	\$355	\$530
STUDENT rate for above**	\$145	\$175	\$265
Single-Day Workshop Pass (Note: all RFIC workshops on Friday, 25 June 2021)	\$95	\$125	\$195

*RFIC Virtual Registration includes access to all technical lectures, plenary talks, technical sessions, panels, the S&A demo forum, and the virtual exhibition, with on-demand access for one month.

**Note that US-based students can apply for a registration award sponsored by NSF which covers virtual RFIC + workshop pass (up to \$310). See <https://rfic-ieee.org/nsf-award> for more details.



RFIC 2021

In-person Symposium: 7-9 June 2021

Virtual Symposium: 20-25 June 2021

(on-demand access for one month)

Check out our technical program at:

<https://rfic-ieee.org>