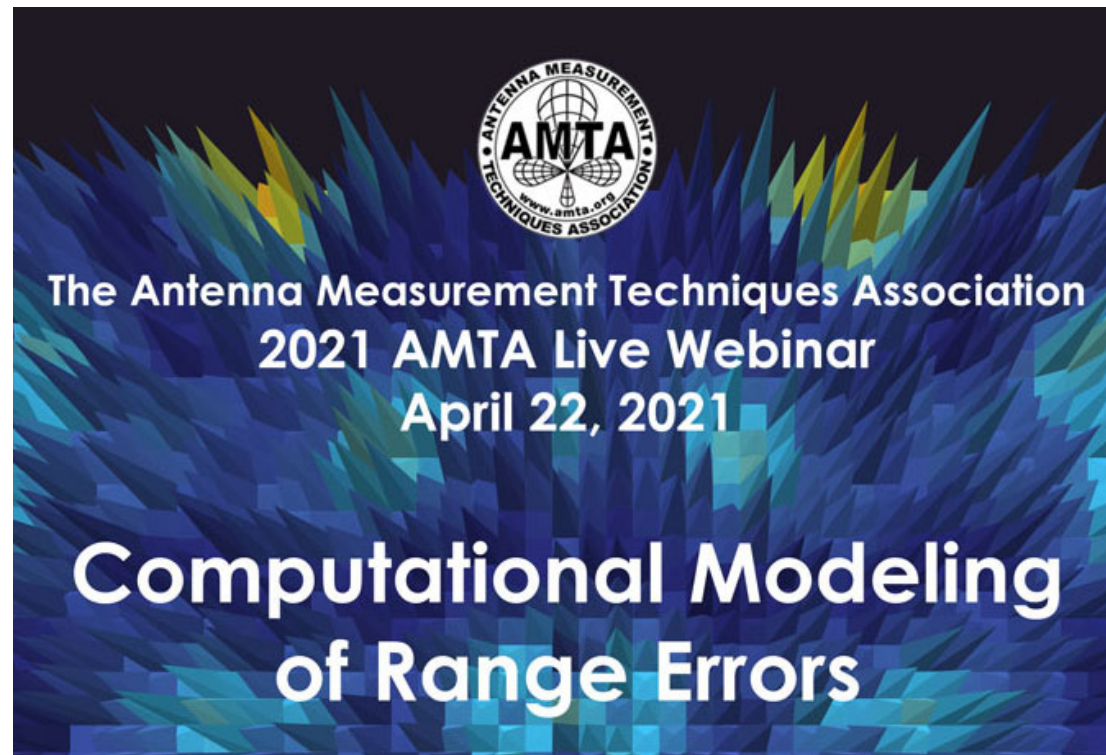


Welcome



AMTA 2021 Live Webinar - Virtual Regional Event - Computational Modeling of Range Errors

Welcome and Announcements

- First, some housekeeping – we have all been doing this for a year now, so hopefully no surprises or rookies here!
- 1) **Please keep your microphone on mute!!!**
 - Note: our MS Teams administrator is going to mute everyone.
- 2) Speakers, please remember to unmute yourself and share your presentation.
- 3) Questions very welcome - please only use the chat window to ask
 - These will be read out by our Moderator, Justin Dobbins at the end of each talk.
- 4) We have a 15 minute intermission at the halfway point,
 - We will keep the meeting open during this slot.
- 5) Please keep your microphones on mute (I know technically this is the same as Item 1, but its worth mentioning twice!)



Introduction

- I am Stuart Gregson, Director of Operations and Research at Next Phase Measurements and visiting Prof. at Queen Mary University of London.
- I also have the great pleasure of serving as the 2021 AMTA Vice President, where one of my duties is to introduce the AMTA annual Regional Event.
- The Antenna Measurement Techniques Association (AMTA) is a non-profit professional organization for engineers and others active in the fields of antenna, radome, and radar cross-section measurements.
- The purpose of AMTA is to promote technical exchange between practitioners in these fields.
- AMTA organizes several different activities throughout the year including:
 - Convening special sessions at a variety of conferences,
 - AMTA Regional Nodes,
 - Hosting the AMTA archival database of technical papers @ AMTA.org, repository stretching right the way back to 1979 – when AMTA was formed.
- However, the main activities are the:
 - Annual Fall symposium,
 - Annual Regional event.
- Originally this regional event was slated for Arizona and had been scheduled for Spring 2020:
 - Due to the dumpster-fire that was 2020, it had to be postponed to 2021 and then eventually converted to an on-line event.
 - However, we have done everything we can to try to preserve the feeling of a true regional event.



AMTA Fall Symposium, San Diego 2019



Stuart Gregson
2021 AMTA Vice President,
Regional Event Committee Chair



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AMTA ~~2020~~ 2021 Regional Event



AMTA 2021 Live Webinar - Virtual Regional Event - Computational Modeling of Range Errors

AMTA Live Webinar – Virtual Regional Event



- Thank our generous Host who stuck by us when we were forced to change to from an in-person to a virtual, on-line, format event.



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Technical Coordinator & Moderator



Justin A. Dobbins

Raytheon Technologies Corporation



- **Justin Dobbins** is a Senior Engineering Fellow at Raytheon Missiles & Defense, where he is responsible for design, development, and integration of measurement systems for advanced antenna and radome products. He received his BS and MS in Electrical Engineering from The University of Texas at Austin. While pursuing his MSEE he was a research assistant at UT's Applied Research Laboratories where he designed, built, and tested a novel electrically small VHF antenna. Justin went on to work in the antenna group at NASA Johnson Space Center (JSC) where he completed a broad variety of both space and commercial projects. Soon after his arrival at NASA, Justin assumed technical responsibility for all antenna measurement facilities and in this role he was instrumental in several modernization and restoration upgrades that greatly improved the measurement quality and capability of the various test ranges at JSC.
- In 2006 Justin joined Raytheon where he was initially part of design teams for both radar seeker and conformal antenna products. He went on to serve as a group lead for antenna design engineers, and in 2008 he became chief engineer for multiple advanced antenna and radome measurement facilities that Raytheon constructed to support products operating over a broad application space.
- He has been an AMTA member since 2008, and an AMTA senior member since 2017.
- AMTA 2020 1st runner up, best paper award: *Measuring G/T with a Spherical Near-Field Antenna Measurement System via the CW-Ambient Technique*, Ryan T. Cutshall, Justin Dobbins, Matthew N. Barr

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Program

Time (PDT)	Presenter	Organization	Presentation Title
07:55	Stuart Gregson & Justin Dobbins	NPM, QMUL Raytheon Technologies	Welcome & Announcements
08:00	Jonathan D. Lawrence Ryan T. Cutshall	Raytheon Technologies	Simulating Near Field Measurement Errors for Spherical & Planar Geometries
08:30	Lars Jacob Foged	MVG	Investigation of Probe (Im)perfection vs Measurement Accuracy in Spherical Near-Field Systems
09:00	Marion C. Baggett	NSI-MI Technologies LLC.	The Cost of Accuracy
09:30	Break		
09:45	Jacob Freking	Raytheon Technologies	Simulation of Test Zone Scattering in a RCS Compact Range
10:15	C.J. Reddy	Altair Engineering, Inc.	Simulation of Antenna Measurements Using Advanced Computational Techniques
10:45	Bharath Kashyap George Trichopoulos	Arizona State University	Radar Cross Section Characterization of a 220 GHz Reconfigurable Reflective Surface
11:15	Stuart Gregson & Justin Dobbins	NPM, QMUL Raytheon Technologies	Final Q&A, Discussion & Close.



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Intermission – 15 Minutes



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Final Questions & Answers



- Any final questions for any of today's talks?
- Please enter them in the chat window.
- The pdf and recorded versions of the presentations of consenting authors will be available after this webinar at www.AMTA.org
- If you like what you have seen here today, do please join AMTA at www.AMTA.org



Webinar Close

- Thank all of this morning's speakers!
- Thank the Webinar Organisation Committee:
 - Stuart Gregson – Chair & AMTA Vice President
 - Justin Dobbins – Event Technical Coordinator & Moderator
 - Michelle Taylor – AMTA President
 - Ed Urbanik – AMTA Past Vice President
 - Paul DeGroot – AMTA Meeting Coordinator
 - Zhong Chen – AMTA Secretary
- AMTA Abstract Submission is Open!
 - 250-350 word abstract deadline: May 7, 2021
 - Have a Student Travel Scholarships for AMTA 2021
- **See you in Daytona!**
 - <https://2021.amta.org/>



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