

COMMISSION A

Modern RF Linearity Characterization: Paving the Way for Next-Generation System Design

I'm an RF and microwave researcher at Instituto de Telecomunicações in Aveiro, Portugal, specializing in modern linearity characterization. My work focuses on understanding how nonlinearities impact RF system performance and on developing advanced measurement techniques that enable better engineering decisions.

Passionate about bridging research and real-world applications, I enjoy translating complex RF challenges into practical insights that engineers can use in the design and characterization of next-generation systems. I value technical exchange and collaboration, and I am always keen to engage with the community to discuss new ideas and advances in RF and microwave measurement.

ABSTRACT

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Poland**
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URSI GASS 2026



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COMMISSION G

Being responsible in the age of Big Data: Remote sensing the ionosphere and magnetosphere

David R. Themens is an Associate Professor of Space Weather and Space Systems with the Space Environment and Radio Engineering Group (SERENE) at the University of Birmingham. David also holds an Adjunct Professor appointment in the Department of Physics at the University of New Brunswick. He has participated in URSI since the GASS in Istanbul in 2011 and currently leads the Joint IAGA-URSI Geospace Data Assimilation Working Group in Commission G, is Vice Chair of the Commission G Working Group on Radio Diagnostics of Space Weather Plasma Processes, is a member of the International Reference Ionosphere Working Group, and serves as Early Career Representative for Commission G. Prior to this GASS (2020 - 2026), David has also served as the Canadian National Representative and Canadian National Committee Chair for Commissions G and H.



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