

DEPARTMENT OF ENGINEERING

IEEE MACQUARIE UNIVERSITY STUDENT BRANCH
IEEE YOUNG PROFESSIONALS NSW
IEEE NSW AP/MTT JOINT CHAPTER
IEEE MACQUARIE UNIVERSITY WIE, AFFINITY GROUP



Date: Friday, 9th Feb, 2018

Time: 05.00 pm – 06.00 pm

Location: Room 116, Building E6A (9 Wally's Walk), Macquarie University, NSW 2109

What you should know about coaxial-cables?

This presentation will cover the important aspects of coaxial-cable performance for a range of applications. These include resistive and dielectric loss, surface roughness, power handling, phase stability with temperature and bending, humidity, irradiation and practical aspects like specifying the right protection and cable handling. With this information you will be able to select the cable with lowest loss at your desired frequency, to predict if your cable can withstand the power used in your immunity test or whether arcing in the connector is likely at system peak power. You will gain an appreciation of the effect of mating cycles, and the impact of bending and cable protection on reliability and lifetime.

Dip. Ing. Stefan Burger

*Delta Gamma RF-Expert / elspec Group GmbH,
Melbourne / Geretsried-Gelting,
Australia / Germany
s.j.burger@ieee.org*



Stefan Burger received the Dipl. Ing. (FH) from the University of Applied Sciences Offenburg, Germany in 1986 and worked as a research assistant at the University until 1990. He joined Endress + Hauser, Maulburg, Germany, and worked in the R & D department on a Pulse RADAR systems for level measurement for industrial application at 5.8 and 26 GHz. In 2001 he joined Panasonic Electronic Devices in Lueneburg, Germany, first as a Senior Engineer and later as manager in the R&D department. He developed combine and dielectric filters for base stations, SAW filters and duplexers for mobile phones, an on-waver intermodulation test system and antennas for smart meters. He was responsible for development of a simulation software for SAW devices based on FEM/BEM method. He founded Delta Gamma RF-Expert in 2012 and now consults for the elspec Group in Germany.

Stefan Burger is member of IEEE MTT-S, AP-S, EMC, GRSS and the European Microwave Association. He served as Victorian IEEE AP-S / MTT-S Chapter Vice-chair in 2016 and as Chair in 2017.

Further information:

Arslan Kiyani

arslan.kiyani@students.mq.edu.au

Khushboo Singh

khushboo.singhr@students.mq.edu.au

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