

Industrial Workshop

Organiser: Vitali Judin

Company/Organisation: Rogers GmbH

Title: Advanced materials and manufacturing methods enable new antenna solutions - application use-cases with 3D printable RF lenses.

Abstract: Explore the challenges presented by the rapid pace of communication technology development in our workshop. Fuelled by rising demands for data transfer, data link reliability, system compactization, and dynamic features like multi-band capability and on-the-fly re-configuration, modern antenna systems face complex hurdles. Antenna engineers navigate these challenges, constrained by available materials and manufacturing techniques, to realize optimal designs. Join us for this workshop, where we showcase instances of how advanced materials in combination with advanced manufacturing methods have propelled the forefront of antenna technology, exemplifying breakthroughs in meeting evolving communication requirements.

This workshop will be based on several short training units & explanations of technology limits and applicability. Discussion about scalability of additive manufacturing of RF components. We finalize the workshop with 30 min Q&A/Brainstorming session. Feel&Touch 3D printed samples will be available.

Speakers:

Henrik Ramberg holds MSc in Engineering Physics with deep background in RF space, microwave antennas, 4G and 5G Radios, ORAN, mass production transfer, mechanical design, PCBs and SMT fabrication. He supports development of advanced 3D printed RF components in his current role as a Sr. RF/Antenna Application Engineer at Fortify.

Romeo Premerlani holds E-MBA Entrepreneurship and BSc in Communication Technologies. With deep experience in RF technology commercialization, he focuses on development of new markets, related technologies and processes at Varioprint AG.

Stefano Dada holds MSc in Computer Science with strong experience in RF material domain and deep RF application knowledge. Among other fields He drives application development activities in EMEA, supports wide A&D customer base in his current role at Rogers Corporation.