

FTMC team



Žilvinas Kancleris

NATO Project Director
Dr Habil., Head of
Microwave laboratory

Project
management
and coordination



Paulius Ragulis

Dr. Senior researcher

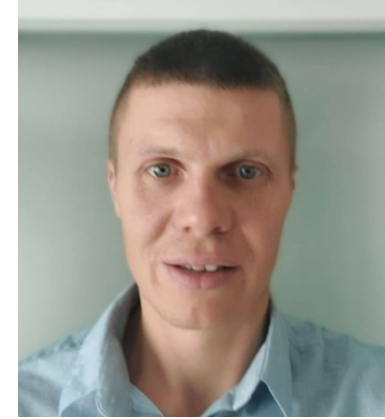
Rectenna testing
and characterisa-
tion



Rimantas Simniškis

Dr. Senior researcher

Impedance
matching
network design
and testing



Karolis Ratautas

Dr. Senior researcher

SSAIL parameter
optimisation



Romualdas Trusovas

Dr. Senior researcher

DR antenna
excitation circuit
realisation using
SSAIL method

FTMC tasks in the project:

Simulations of microwave antenna, rectifier circuit design, manufacturing and testing of rectennas, and metal deposition on dielectric materials using SSAIL technology.

FTMC team , stipendiaries of the NATO SPS project



Justina Žemgulytė
PhD student

Antenna design,
testing, rectifier
optimization.

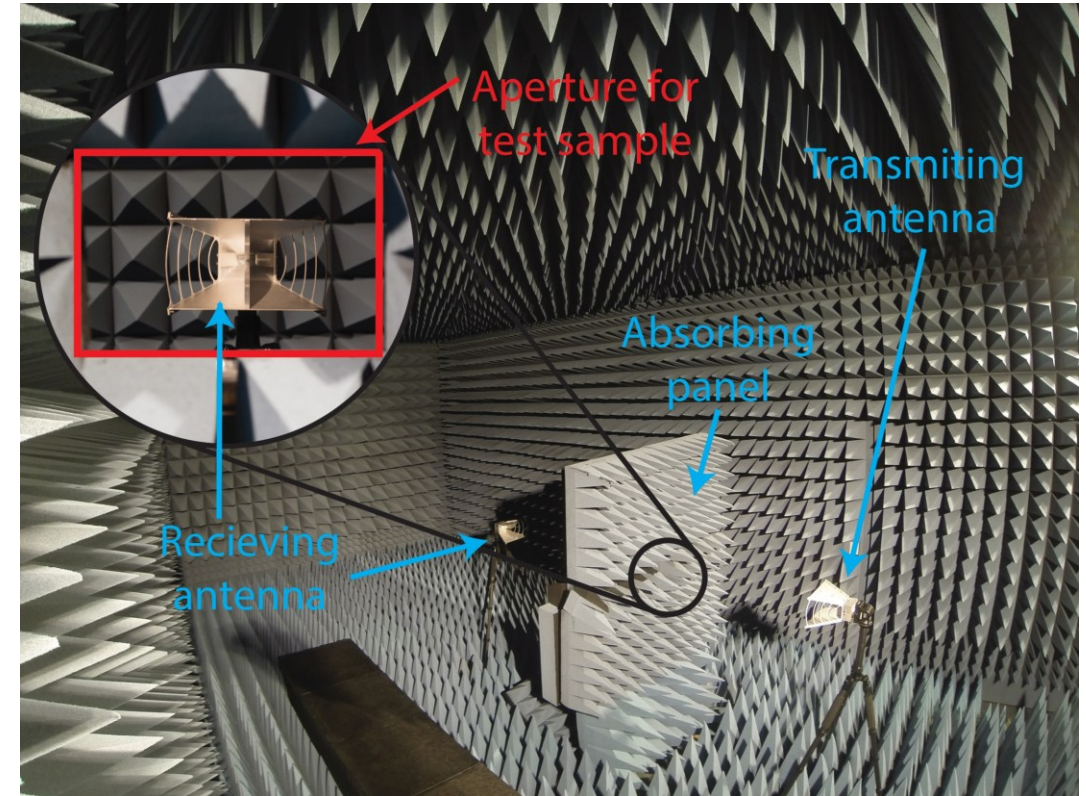


Modestas Sadauskas
PhD student

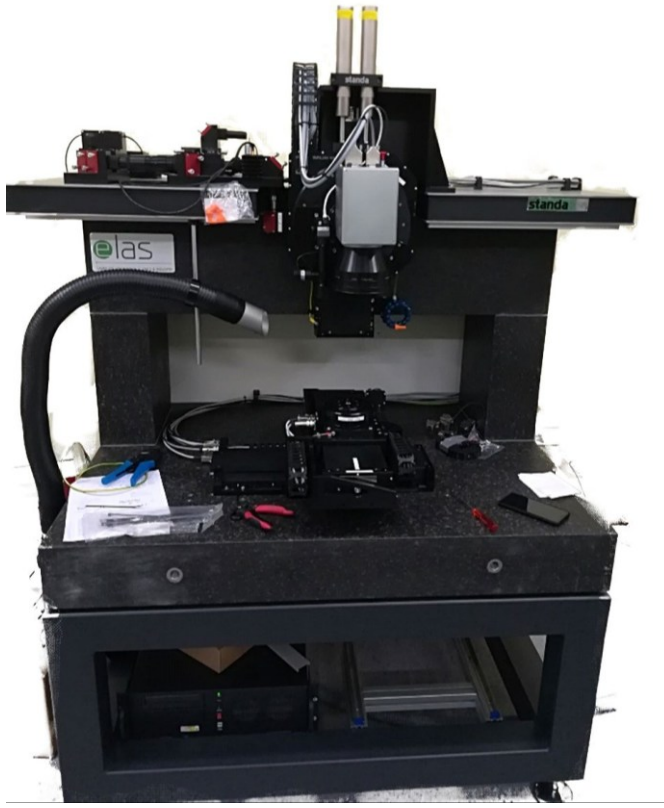
Metallisation of
samples, their
testing, and
characterisation.

Available equipment

- Anechoic chamber 1-20 GHz
- HPM pulse power sources at fixed freq. at S, C, X, Ku, Ka and W bands.
- Tunable TWTs, up to 2 kW pulse power.
- Low power tunable generator up to 20 GHz.
- Corresponding waveguide sensors for HPM pulse power measurement.
- Radiating and receiving antennas, measurement equipment



$l=8.4\text{ m}$, $w=4.6\text{ m}$, $h=3.7\text{ m}$



3D laser processing machine:

- 60W ultrafast picosecond laser "Atlantic" (EKSPLA)
- 3 mechanical linear axes
- 2 rotational axes (Standa)
- Galvanometric scanner IntelliScan (ScanLab)



Pilot chemical plating line for metal deposition COMPACTA 150 (Walter Lemmen GMBH)

- Automated plating line
- 15 tanks
- Automated concentration control
- Tanks up to 50 l
- Cu+Ni+Au full finishing process
- Prototype processing
- Small scale production