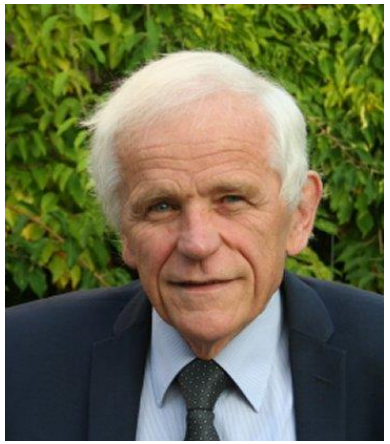
FTMC team



Žilvinas Kancleris
NATO Project Director
Dr Habil., Head of Microwave laboratory

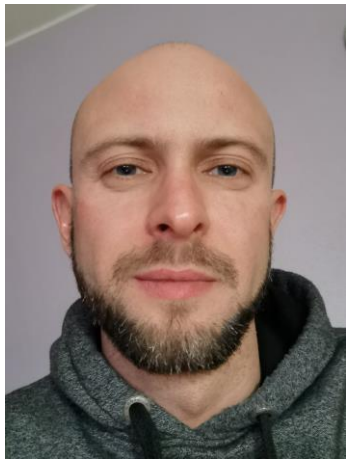
Project management and coordination

Paulius Ragulis
Dr. Senior researcher

Rectenna testing and characterisation

Rimantas Simniškis
Dr. Senior researcher

Impedance matching network design and testing



Gediminas Šlekas
Dr. Researcher

Electromagnetic simulations of DR antenna

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

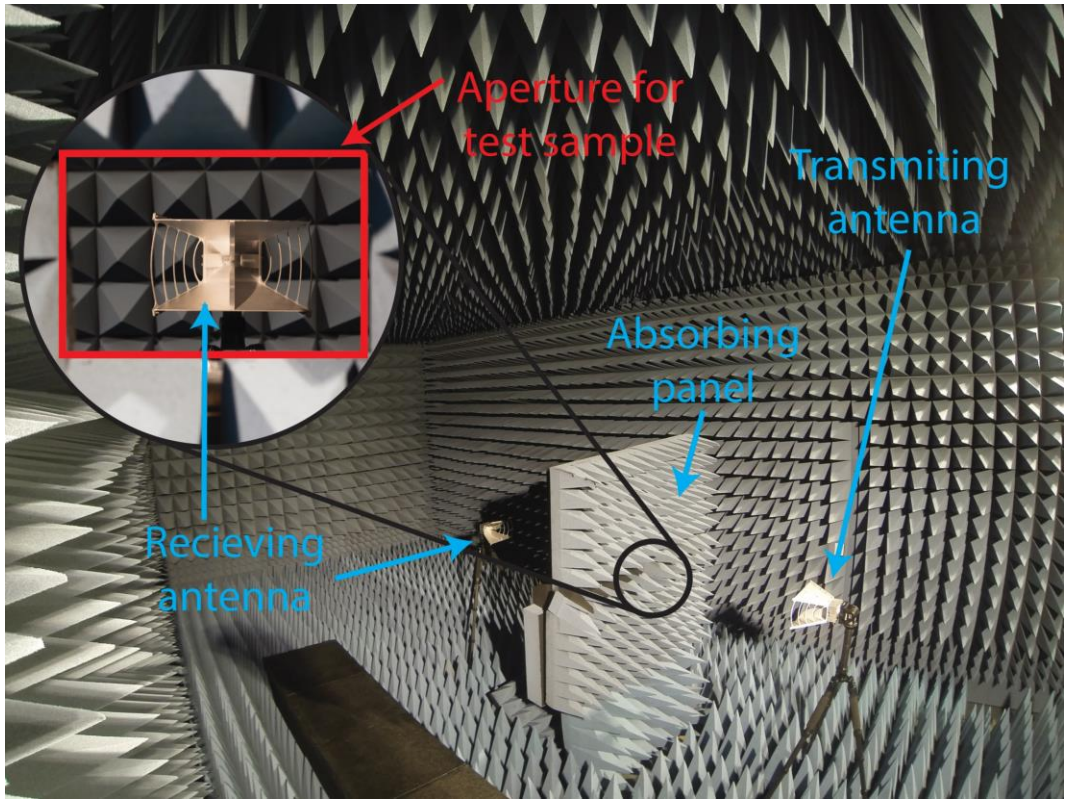
Antenna design, testing, rectifier optimization.

Modestas Sadauskas
PhD student

Metalisation 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 m, *w*=4.6 m, *h*=3.7 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