

FERENC LÉNÁRT**PERSONAL INFORMATION**

Date of birth: 23. 02. 1954., Gönc
Marital status: married, 2 children
Citizenship: Hungarian
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QUALIFICATION

1973 - 1978 Techn. Univ. of Budapest, Faculty of El. Engineering, MA in Microwave Telecomm.
1988 MSc in Electrical Engineering
1988 dr. Univ.

EXPERIENCE

1978-1980 FMV, Precision-engineering Enterprise, Antenna Development Department (microwave antennas and antenna measurements)
1981-1982 HTV, Company for Telecommunications, Antenna Development Group (SW, UHF and VHF antennas and antenna measurements)
1982- Budapest University of Technology and Economics (BME), Department of Broadband Infocommunications and Electromagnetic Theory
2000- Head of the Shielded Anechoic Antenna and EMC Laboratory
2019- pensioner

LANGUAGE SKILL

English: basic
German: beginner

RESEARCH ACTIVITY

- Design of antennas, radar antennas, broadband antennas, antenna systems, antennas for spacecraft
- RF and antenna measurements, PC-controlled measurements
- Special radar applications: tank level measurement, DTF measurement, ground surveillance radar
- RF directional finding - directional finding antenna systems, electrosmog measurements, forensic expertise
- Development and measurement of high frequency absorbers and camouflage materials, Active RF camouflage
- EMC education and extension courses
- EMC qualifying measurements, EMC design of intelligent buildings, Design and test of shielded enclosures

OTHER ACTIVITY

- Professional Authorities:
- MTESZ Association of Communication engineering 360/1994
 - Ministry of Industry and Trade Wsz 98/1996
 - Driving licence, cat. „B”

ASSORTED PUBLICATIONS

- F. Lénárt: The Design and Measurement of an Anechoic Chamber for Indoor Modelling of Microwave Radio Links Third Junior Scientific Conference of the TKI Research Institute 1988 (in Hungarian)
- Scultéty, Lénárt, Szűcs, Gézárt: Computer network's EMC and data protection, DEC Hungary Co. 1994
- István Balajti, Tibor Birtalan, Ferenc Lénárt: Determined possible bandwidth of large aperture VHF antenna, NATO AC323/(SETO) TG21, Conference of Corporate Body 14-16th March, 2000 Rome
- Janklovics Zoltán – Lénárt Ferenc: Telecommunication Networks and Informatics Services, Chapter 7.8., Electromagnetic Compatibility Editor in Chief: Dr. Lajtha György, HTE, 2003. (in Hungarian)
- Babits ,Szedenik , Kiss ,Szűcs, Lénárt , Berta :Lightning Protection of Mobile Services Switching Híradástechnika 62. évf. 5. sz. / 2007 (in Hungarian)
- L. Jakab, G. Károlyi, F. Lénárt: Broadband One-port Material Characterization Method of Porous and Fluidic Materials, EuMW2008 EuMCPPoster02 October 29, 2008
- G. Károlyi, L. Jakab, F. Lénárt: One-port Method to Determine the Complex Pproperties of Porous and Fluidic Materials, Híradástechnika, december 2008 (in Hungarian)
- L. Jakab, G. Károlyi, F. Lénárt: Measurement of Complex Electromagnetic Properties of Ferrite Powders and Fluids, Proc. of Microwave Conference, 2008 China-Japan Joint
- T. Gál, J. Ladvánszky, F. Lénárt: Improvement of Waveguide Diplexer Components, 2013 Asia-Pacific Microwave Conference AMPC-2013 Proceedings, November 5-8. 2013, Seoul, Korea
- M. Borsi, D. Skriba, F. Lénárt, A. Bánfalvi, J. Szabó, Zs. Váradi: EMC Testing Approach for Power Distribution Unit of Small Satellite, ESA Workshop on Aerospace EMC in Budapest, 20 - 22 May 2019

- T. Kónig, V. Qiao, Zs. Váradi, J. Szabó, F. Lénárt, A. Bánfalvi: EMC Aspects of the LMP Experiment Aboard ESEO, ESA Workshop on Aerospace EMC in Budapest, 20 - 22 May 2019

MAJOR REFERENCES

- Monopulse tracking antenna for Tyros (and Meteosat) satellites (BME MHT 1978-1982)
- Development and design of short wave directional finding antenna systems (BME-HTV-Mech. Labor 1983)
- Development and measurement of high frequency absorbers and camouflage materials (BME-HTI 1988)
- EMC measurements of NASA's Dosimeter(PILLE) device (BME - KFKI – NASA 2000)
- Onboard high sensitivity ELINT reconnaissance antenna (Lénárt F. - HM TH, 2002-2004)
- EMC extension courses (ÉDÁSZ, Philips, ELCOTEQ 2000-2005)
- Data protection by active RF camouflage in governmental computer headquarters (Lénárt F. – Vilodent Bt. 2002-2005)
- Microstrip antennas for ground surveillance radar (Lénárt F. – Pro Patria Kft. 2002-2008)
- Development of 3D audio frequency magnetic field analyzer (BME 2005-2013)
- Development of UAV terrestrial and onboard antennas (BHE 2004-2016)
- Development of tank level radar antennas (Nivelco-BME 2009-2015)
- Development of a broadband (10 Hz - 6 GHz) mobile “esmog” measurement system (He-Ba Kft. – AutSoft Kft – Lénárt F. 2017-)
- EMC measurements of ESEO satellite components (BME HVT – Space Research Group 2018)
- Drone reconnaissance radar antenna development (BHE – Quini Ltd. – Lénárt F. 2018-)
- Broadband (0.03 - 6 GHz) directional antenna system development (AH – KNBSz - Relcom Kft – Lénárt F. 2018-)
- Elaboration of space engineering subject topics (BME VIK 2020)

AWARDS

- VIK Dean's Commendation 2022

Budapest, April 13, 2022