



III International Conference

Electromagnetic field and the future of telecommunication

Research. Monitoring. National and international experience.

6 December 2018

PGE Stadion Narodowy
Conference Centre, Amsterdam Conference Room
Księcia J. Poniatowskiego 1, Warsaw, Poland

Public transport: trains (Warszawa Stadion station), metro M2 (Stadion Narodowy station), bus lines:
102, 111, 117, 123, 128, 146, 147, 158, 166, 507, 509, 517, 521, tram lines: 7, 8, 9, 22, 24, 45, 77.

pem.itl.waw.pl/konferencje

Organizer:

National Institute of Telecommunications

Patronage:



Honorowy patronat
Prezesa Rady Ministrów
Mateusza Morawieckiego

Under the Honorary Patronage
of the Prime Minister
Mateusz Morawiecki

Ministry of Digital Affairs



Ministerstwo
Cyfryzacji

Ministry of Health



Ministerstwo Zdrowia

Chairman:

prof. dr hab. inż. Andrzej Krawczyk

Polish Society of Applied Electromagnetics

Vice-chairman: :

dr inż. Jerzy Żurek

National Institute of Telecommunications

Program committee:

Rafał Pawlak

National Institute of Telecommunications

Wojciech Hańka

National Institute of Telecommunications

Magdalena Kwiatek

National Institute of Telecommunications

Małgorzata Strzyżewska

National Institute of Telecommunications

Natalia Dankowska

National Institute of Telecommunications

Conference programme

8.30 – 9.30 Registration of participants

Opening – Chairman: dr. Jerzy Żurek

9.30 – 9.40 Speech of Jerzy Żurek, director of the National Institute of Telecommunications

9.40 – 9.50 Speech of Marek Zagórski, Minister of Digital Affairs and Wanda Buk,
undersecretary of state in the Ministry of Digital Affairs

9.50 – 10.00 Speech of Janusz Cieszyński, undersecretary of state in the Ministry of Health

Plenary session – Chairman: Wojciech Hałka

10.00 – 10.20 prof. dr hab. inż. Andrzej Krawczyk, Polish Society of Applied Electromagnetics
What is EMF?

10.20 – 10.40 dr. Jack Rowley, GSMA
*Relationship between RF-EMF limits and the possibilities for implementation
of 5G networks*

Session 1 – Chairman: prof. Andrzej Krawczyk

Overview of worldwide and domestic activities on electromagnetic fields and their influence on human
body and 5G networks development

10.40 – 11.00 Zenon Sienkiewicz, ICNIRP
The revised ICNIRP guidelines on exposure to RF fields

11.00 – 11.20 Jarosław Ponder, ITU
*The impact of RF EMF exposure limits stricter than the ICNIRP or IEEE guidelines
on 4G and 5G mobile network deployment*

11.20 – 11.40 prof. med. Aleksander Sieroń, dr hab. med. Karolina Sieroń, Medical University of Silesia,
prof. Andrzej Krawczyk, PSAE
Cellular telephony and medical facts and myths

11.40 – 12.00 prof. dr hab. Eugeniusz Rokita, dr hab. Grzegorz Tatoń, Jagiellonian University
Medical College
Quantification of the influence of electromagnetic fields on human body

12.00 – 12.30 Discussion panel

Session 2 – Chairman: Wojciech Hałka

EMF monitoring methods

- 12.30 – 12.50 dr. Jack Rowley, GSMA
Lessons learned from international RF-EMF monitoring and expectations for 5G networks
- 12.50 – 13.10 Katarzyna Moskalik, GIOŚ DMOiPSS
Polish System of EMF monitoring as part of National Monitoring of Environment
- 13.10 – 13.30 Aleksandar Borić, RATEL (Serbia)
Radio Frequency Electromagnetic Fields Measurements and Monitoring in Serbia
- 13.30 – 13.50 Balázs Gyulai, National Media and Infocommunication Authority (Hungary)
Experiences and development plan of the 10-year Hungarian RF EMF Monitoring System
- 13.50 – 14.10 prof. Paweł Bieńkowski, Wrocław University of Science and Technology
Electromagnetic field in the environment – effective methods of monitoring electromagnetic field emission in vicinity of base stations
- 14.10 – 14.40 Discussion panel
- 14.40 – 15.20 Lunch

Session 3 – Chairman: prof. Andrzej Krawczyk

Overview of good practices in the field of EMF measurements

- 15.20 – 15.40 dr Fryderyk Lewicki, ITU
Work on RF EMF at ITU-T SG5
- 15.40 – 16.00 Rafał Pawlak, National Institute of Telecommunications
SI2PEM system
- 16.00 – 16.20 dr Piotr Toczyski, Maria Grzegorzewska University, dr Anna Gumkowska, Collegium Civitas
5G and language of prejudice: electrosmog, mind control, electromagnetic weapon, etc. – how to go beyond the language of prejudice and lead a reliable social debate around topics that divide us
- 16.20 – 17.20 Discussion panel
Leading: Andrzej Krawczyk and Jerzy Żurek
- 17.20 – 17.30 Summary of the conference