

## PERSONAL INFORMATION

## Milan Tyšler



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## WORK EXPERIENCE

1/10/1981–Present

## Scientific worker

Institute of Measurement Science, Slovak Academy of Sciences  
Dúbravská cesta 9, 841 04 Bratislava (Slovakia)  
[www.um.sav.sk](http://www.um.sav.sk)

- Research in the field of biomeasurements, modeling of biological objects, development of medical measuring and information systems.
- Head of the Department of Biomeasurements (since 1985)
- Fellow scientist (since 1986)
- Leading scientist (since 1997)
- Director of the Institute (2006-2018)
- Scientific Secretary (since 2019)

1/9/2006–Present

## Assistant professor, Associate professor (part time job)

Faculty of biomedical Engineering, Czech Technical University in Prague, Kladno  
Nám. Sítná 3105, 272 01 Kladno (Czech Republic)  
[www.fbmi.cvut.cz](http://www.fbmi.cvut.cz)

- Research and education in the field of biomeasurements and biomedical engineering

Business or sector Education

## EDUCATION AND TRAINING

1/12/2006

## Associate professor (docent), "doc."

Scientific-academic  
degree, ISCED 6,  
area 52

Faculty of Mechanical Engineering, Technical University of Košice  
Letná 9, 042 00 Košice (Slovakia)

Habilitation work: Multichannel measurements of the electrical activity of the heart and their use for its functional analysis;

Habilitation lecture: Modeling of the cardiac electrical field and its use in the educational process and diagnostics of diseases.

1/10/1978

## Candidate of technical sciences "CSc." / philosophiae doctor "PhD." ISCED level 5a, area 52

Institute of Measurement Theory, Slovak Academy of Sciences  
Dúbravská cesta 9, 841 04 Bratislava (Slovakia)  
[www.um.sav.sk](http://www.um.sav.sk)

Measurement Technology

Dissertation thesis: Contribution to the analysis of errors of an automated measuring complex for

measurement of the cardiac electrical field.

1/10/1969–30/6/1974

## Engineer "Ing." / Master of Science "MSC"

university, ISCED  
5A, oblast' 52

Faculty of electrical engineering, Slovak Technical university in Bratislava  
Vazovova 1b, 811 07 Bratislava (Slovakia)

Mathematics, Physics, Electrical Engineering and Electronics, Computers, Informatics

Master thesis: Automated evaluation of the Achilles tendon reflex.

### PERSONAL SKILLS

Mother tongue(s) Slovak

Foreign language(s)

|         | UNDERSTANDING |         | SPEAKING           |                   | WRITING |
|---------|---------------|---------|--------------------|-------------------|---------|
|         | Listening     | Reading | Spoken interaction | Spoken production |         |
| English | C1            | C1      | C1                 | C1                | C1      |
| Czech   | C2            | C2      | C2                 | C2                | C2      |
| Russian | C1            | B2      | B2                 | B2                | B2      |
| German  | B2            | B2      | B1                 | B1                | B1      |

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user  
Common European Framework of Reference for Languages

Communication skills - Communication skills achieved in managing functions  
- Ability to work in multilingual environment

Organisational / managerial skills

- Managing of the Institute with 60 employees, managing of the research team with 7 coworkers
- Experience in management of national and international projects (12 bilateral international, 14 National)

Job-related skills

Measurement technology and devices for biomedicine:

- methods for measurement, processing, imaging and evaluation of biosignals and their application in biology and medicine
- development of intelligent measuring system for recording, processing and evaluation of biosignals

Modeling and identification of biological processes with orientation to the cardiovascular system:

- modeling of normal and pathological activation of the myocardium
- non-invasive inverse methods and their application in diagnostics in electrocardiology

Digital skills

| SELF-ASSESSMENT        |                 |                  |                  |                  |
|------------------------|-----------------|------------------|------------------|------------------|
| Information processing | Communication   | Content creation | Safety           | Problem solving  |
| Proficient user        | Proficient user | Proficient user  | Independent user | Independent user |

Digital skills - Self-assessment grid

- Knowledge of MS Windows, MS Office, programing in Matlab, Fortran

Driving licence A1, B

## ADDITIONAL INFORMATION

### Educational activities

#### Gradual study:

- Lectures and seminars for students from Faculty of BME CTU in Prague, Kladno, Faculty of Mechanical Engineering TU Košice, Faculty of Electrical Engineering and Informatics, Slovak University of Technology in Bratislava, Faculty of Electrical Engineering University of Žilina
- Advisor of bachelor (6) and master theses (11)
- Chairman and member of state examinations at FEI SUT in Bratislava, FEI UZ in Žilina, FBME CTU in Prague, Kladno
- 1988 - 1989 Faculty of Medicine, Comenius University in Bratislava
- 1989 - 1993 Faculty of Electrical Engineering, Slovak University of Technology in Bratislava
- 1989 - 1996 Faculty of Mechanical Engineering, SUT in Bratislava
- 1997 - Faculty of Mechanical Engineering, TU Košice
- 2006 - Faculty of Biomedical Engineering CTU in Prague
- 2007 - 2009 Faculty of Chemical and Food Technology SUT in Bratislava
- 2007 - Faculty of Electrical Engineering and Informatics SUT in Bratislava

#### PhD study:

- Advisor of PhD students: 7 finished, 1 current
- Member of the specialization commission "Measurement technology"
- 1983 - 2010 adviser in the specialization Bionics and Biomechanics (Institute of Measurement Science SAS)
- 2005 - adviser in the specialization Measurement Technology, (IMS SAS, FEI SUT in Bratislava)
- 2009 - adviser in the specialization Biomedical and Clinical Technology, (FBME CTU in Prague, Kladno)

### Memberships

- IEEE - Engineering in Medicine and Biology Society, member
- ISE - International Society of Electrocardiology, secretary, International Council member
- IMEKO - International Measurement Confederation, chairman of the Slovak National Committee,
- IMEKO TC-13 Measurement in Biology and Medicine committee, member
- SBIMI - Slovak Society of Biomedical Engineering and Informatics, SMA, president

### Functions

- Scientific Board of the Faculty of Electrical Engineering and Informatics, SUT in Bratislava, member
- Scientific Board of the Faculty of Biomedical Engineering, CTU in Prague, Kladno, member
- Selection committee of Slovak Academic and Information Agency, member

### Conferences

- President of international conferences:
  - International Congress on Electrocardiology 2014, Bratislava
  - Measurement 2009, 2011, 2013, 2015, 2017, Smolenice

### Reviews

- Reviews of
  - more than 30 projects of GAČR, APVV, VEGA, KEGA agencies,
  - more than 15 scientific papers,
  - more than 20 dissertation and habilitation theses

### Honours and awards

- 1987 exemplary coworker of the Slovak Academy of Sciences

