

**INSTITUTE OF PHOTONICS AND ELECTRONICS OF THE ASCR, v. v. i.**  
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The Institute was established in 1955 as the Institute for Theoretical Radiotechnology of the Czechoslovak Academy of Sciences. It acquired the name Institute of Radio Engineering and Electronics on 1 January 1956. Pursuant to Act No. 341/2005 Coll., the Institute became a public research institution as of 1 January 2007 and acquired its present name.

Research and development activities of the Institute are focused on the following three main areas: photonics, optoelectronics, and signals and systems.

Photonic research deals with the preparation and characterization of photonic materials and structures for optical communications and sensors. Active and passive fiber and planar waveguide components for optical communications are investigated. Research involving sensors deals with evanescent-wave fiber optic chemical sensors and with surface plasmon resonance sensors for the detection of biological substances and analysis of biomolecules and their interactions. Chemical vapor deposition and sol-gel methods are investigated for the preparation of special optical fibers.

Research in optoelectronics is focused on experimental characterization, theoretical modelling and preparation of advanced materials for optoelectronics; namely semiconductors, special glasses and crystals.

Main research topics in the area of signals and systems include metrology of time and frequency, radio-communications, optical communications, speech analysis and synthesis.

<p>More detailed information about the organisational structure of the Institute and its research and specialised units can be found at the following URL: <b><a href="http://www.ufe.cz">http://www.ufe.cz</a></b></p>
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