



NETME Centre

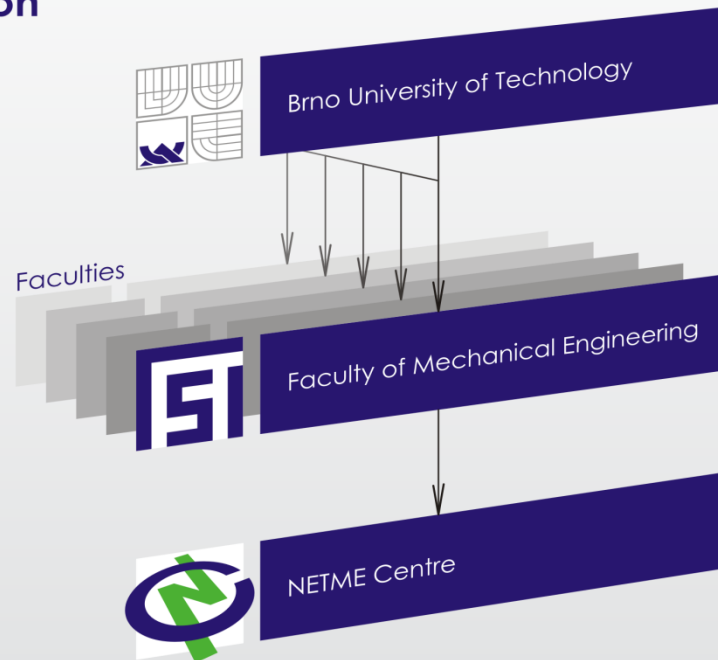
New Technologies for Mechanical Engineering

Faculty of Mechanical Engineering
Brno University of Technology
Technicka 2896/2, 616 69 Brno

About NETME Centre

- **NETME Centre - New Technologies for Mechanical Engineering** - is a regional research and development centre based on high quality research and development conducted at the Faculty of Mechanical Eng. at Brno University of Technology.
- Site: Technicka 2, 616 69 Brno
- Project start: May 2009
- Project end: December 2013
- Sustainability term: 2014-2018
- Funding: in 2014-2018 financed by MEYS via National Sustainability Programme I with eligible project costs 606 million CZK

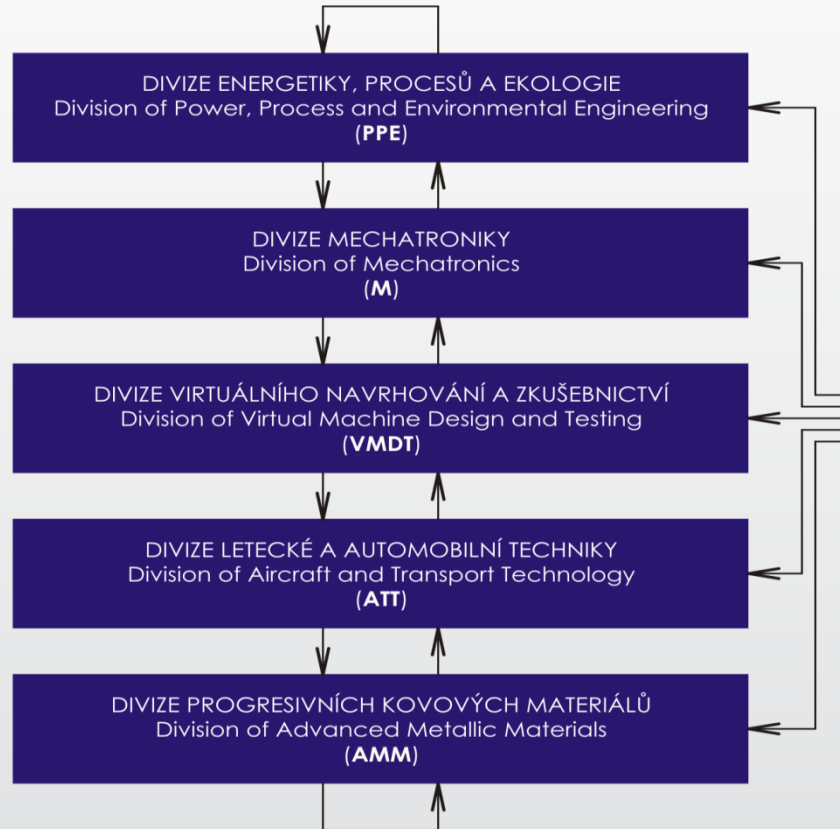
Organization structure



New Technologies for Mechanical Engineering



NETME Centre Divisions



mutual collaboration across the centre

Organization structure

NETME Centre

New Technologies for Mechanical Engineering



Scope of centre activities

- Custom-made research and development
- Development of new technologies and products (prototypes, licence sales)
- Experimental activities (testing facilities, laboratories)
- Consulting, Design, Testing
- Training centres

Division of Power, Process and Environmental Engineering (PPE)

Division of Power, Process and Environmental Engineering is focused on research and development in the field of environmental protection and technological solutions in energy production and process engineering.

Head of PPE division:

Jaroslav Horsky, Prof.

Head of Heat Transfer and Fluid Laboratory

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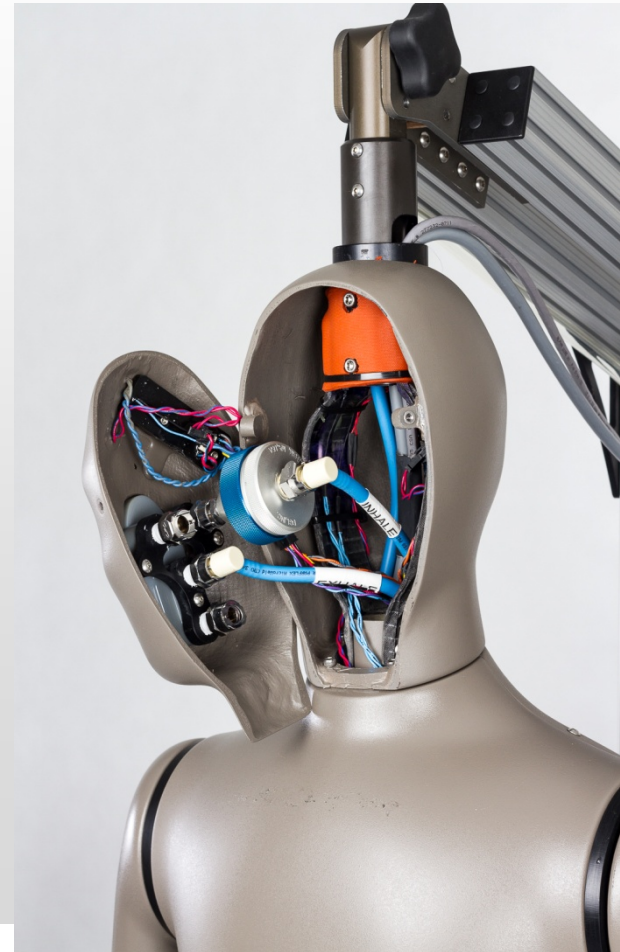
Division of Power, Process and Environmental Engineering (PPE)

- Department of Process and Environmental Engineering
- Heat Transfer and Fluid Flow Laboratory
- Department of Thermomechanics and Environmental Engineering
- Department of Energy Engineering
- Department of Mathematics

Laboratory of Energy Intensive Processes



Thermal manikin for research into thermal comfort



Division of Aircraft and Automotive Technology (AAT)

Division of Aircraft and Automotive Technology is focused on research and development in the field of transport technologies focusing on top efficiency and safety, reduction of negative impact on environment and employment of up-to-date technologies.

Head of AAT division:

Jaroslav Juracka, Assoc. Prof.

Director of Institute of Aerospace Engineering

juracka@fme.vutbr.cz

+420 54114 2234

Division of Aircraft and Automotive Technology (AAT)

- Department of Aircraft Engineering
- Department of Automotive Engineering

Division of Mechatronics (M)

Division of Mechatronics focuses on research and development of unique technical solutions in the field of intelligent electromechanical systems. It integrates research and development potential of institutes at the Faculty of Mechanical Engineering and the Faculty of Electrical Engineering and Communication, Brno University of Technology.

Head of M division:

Tomas Brezina, Prof.

Deputy Director of Institute of Automation and Computer Science

brezina@fme.vutbr.cz

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Division of Mechatronics (M)

- Department of Adaptive Control
- Department of Special Electric Machinery
- Department of Special Fluid Machinery
- Department of Production Machines
- Department of Mathematics
- Department of Engineering Technology
- Department of Mechanics

Division of of Virtual Machine Design and Testing (VMDT)

Division of of Virtual Machine Design and Testing focuses on research, education and complex services in the field of new products development. Activities aim to integrate latest knowledge in basic research and applied sciences and multidisciplinary approach of computer, information and communication technologies in design process.

Head of VMDT division:

Martin Hartl, Prof.

Director of Institute of Machine and Industrial Design

hartl@fme.vutbr.cz

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Division of of Virtual Machine Design and Testing (VMDT)

- Department of Design and Industrial Design
- Department of Solid Mechanics, Biomechanics

3D Printer

Rapid Prototyping SLM 280 HL



Division of Advanced Metallic Materials (AMM)

Division of Advanced Metallic Materials is focused on studying the structure and properties of metallic materials including topics in surface engineering, such as, electron beam technology, phase analysis for metallic and non-metallic materials, mechanical tests area, etc .

Head of AMM division:

Ivo Dlouhy, Prof.

Director of Institute of Materials Science and Engineering

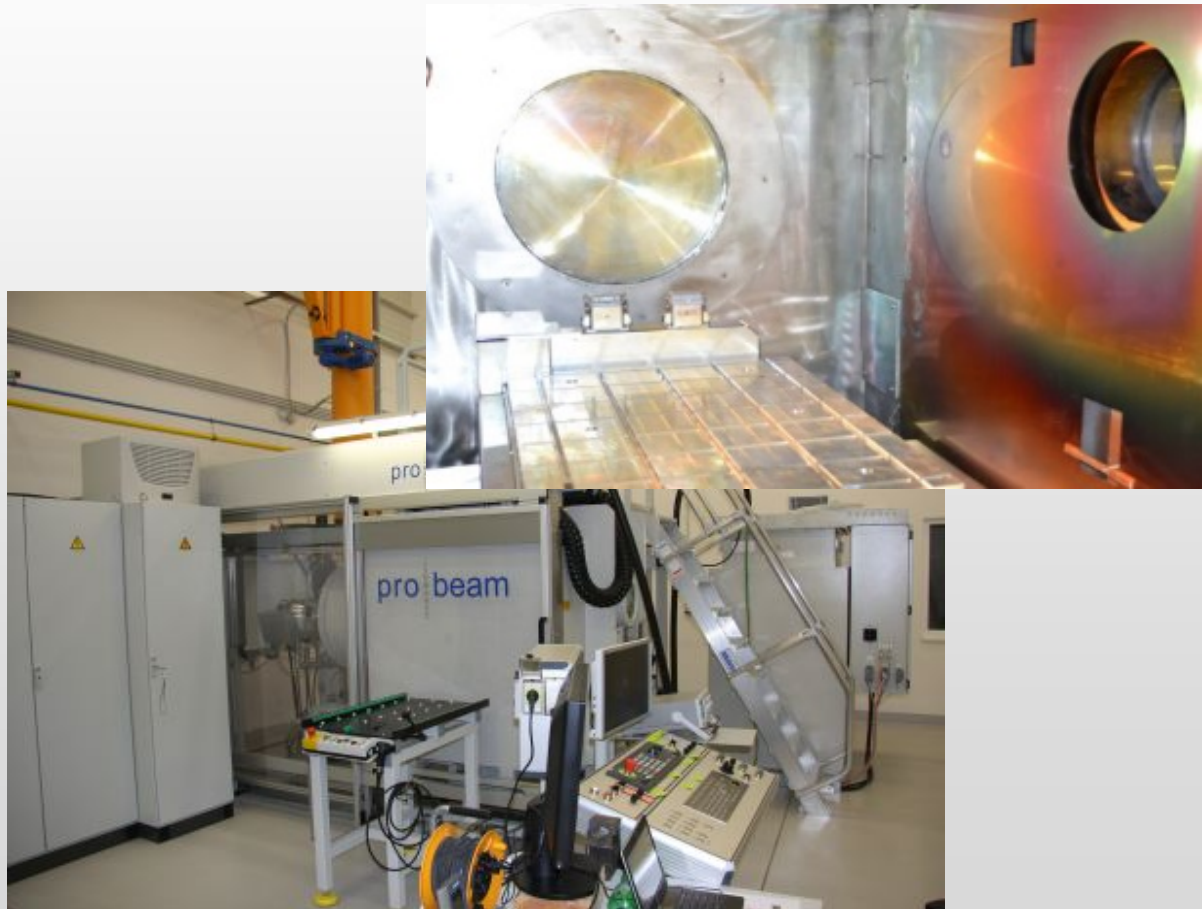
dlouhy@fme.vutbr.cz

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Division of Advanced Metallic Materials (AMM)

- Department of Advanced Metallic Materials
- Department of Solid Mechanics
- Department of Mathematics

Machine for welding and surface heat treatment by means of electron beam PROBEAM K26



Contacts

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