



Welcome to the Institute of Thermal Engineering Graz University of Technology

Inffeldgasse 25/B
A 8010 Graz, Austria

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Goals

of the Institute of Thermal Engineering

- Education of Highly Qualified Graduate students
- Development of innovative Energy Technologies for Austria and Europe
- Conservation of Resources by Sustainable and Energy Saving Applications
- Focus on Local and Global Solutions with respect to Economy & Ecology





Working Groups and Staff of the Institute of Thermal Engineering

Univ.-Prof. Dr.-Ing.
Jürgen Karl



Thermal Energy
Systems and Biomass

Ao.Univ.-Prof. Dr.techn.
Wolfgang Streicher



Energy-efficient
Buildings

Ao.Univ.-Prof. Dr.techn.
René Rieberer



Heating, Refrigerating
and Air-Conditioning



19 scientific & 10 non-scientific staff



Working
Group

Heating, Refrigerating, and Air-Conditioning

Ao.Univ.-Prof. Dipl.-Ing. Dr.techn. René Rieberer

Topics

- Compression & Absorption Heat Pumping Systems
- Ground-coupled Systems
- Co-operation with the „Competence Centre – The Virtual Vehicle (ViF)“
- Alternative Refrigerants and System Optimazation



Staff at ViF:



a.o.



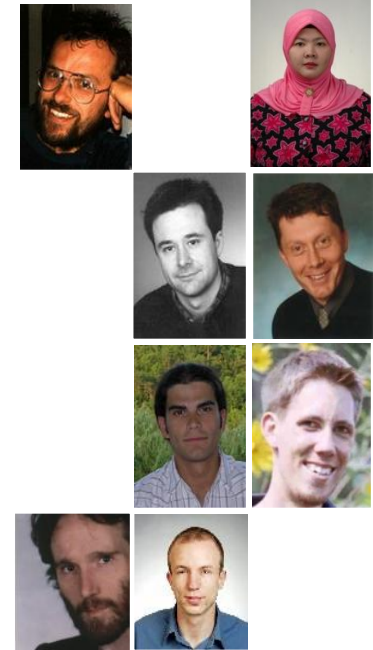
Working Group

Energy-efficient Buildings

Ao.Univ.-Prof. Dipl.-Ing. Dr.techn. **Wolfgang Streicher**

Topics

- Buildings and Building Components
- Plants, Networks and Components
- Standardization and Building Guidelines
- Training/Design and Dissemination





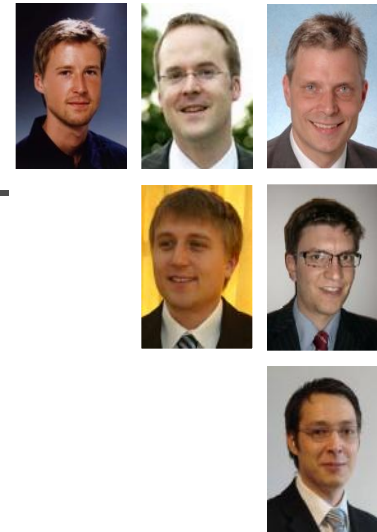
Thermal Energy Systems and Biomass

Univ.-Prof. Dr.-Ing. Jürgen Karl

Working
Group

Topics

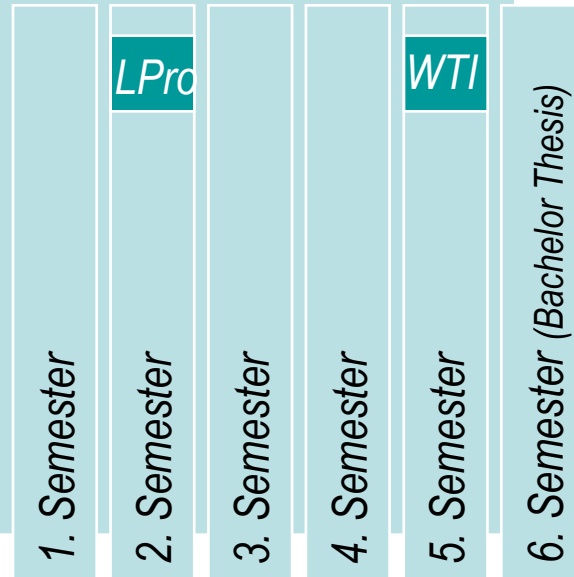
- Combustion and Gasification of Biomass
- Thermodynamic Process Optimization and CFD-Simulation
- Fluidized Bed Technology
- Second Generation Fuels and Fuel Cells
- CO₂-free Gas and Coal-fired Power Plants
- Economic Efficiency and Regulatory Framework





Courses at the Institute of Thermal Engineering

Bachelorstudium



Masterstudium



Compulsory Courses (Energy Technology)

- Thermal Engineering 2
- HVAC
- Energy and Environm. Measuring & Testing
- Informatics for Energy and Environment

Elective Courses (selection)

- Utilization of Biomass
- Gas Utilization and Fuel Cell Technology
- Building Services Technology
- Ecology/ Energy
- Solar Energy Use
- Heat Pumping Technologies
-



Thank you very much for your Attention

For further questions please contact

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