Faculty of Mechanical Engineering at RWTH Aachen University
Outline

- The Faculty’s position as part of RWTH Aachen University
- Degree Programs
- Structure and Funding
- Excellence Initiative and Interdisciplinary Research Partnerships
- Appropriation of Tuition Fee Substitutes
- Faculty International
The Faculty’s position as part of RWTH Aachen University
Dean’s Office

Univ.-Prof. Dr.-Ing. Jörg Feldhusen
Dean

Univ.-Prof. Dr.-Ing. André Bardow
Associate Dean of Structure

Univ.-Prof. Dr.-Ing. Reinhold Kneer
Associate Dean of Studies

Univ.-Prof. Dr.-Ing. Dirk Müller
Vice Dean
Dean’s Representative

Univ.-Prof. Dr.-Ing. Christian Hopmann
Associate Dean of Finances
Management

Ruth Heßberger, M. A.
Managing Director
• Faculty Council, Council of Elders, Dean‘s Meeting
• Appointments, Controlling, Habilitations

Dipl.-Ing. Julia Meul
Substitute Managing Director
• Head of Teaching and Learning Division
• Lecture Hall Management
Divisional Management

Olaf Straube  
Head of IT and Media Division  
- Network  
- Databases

Marco Pingen  
Head of Budget and Human Resources Division  
- Advisor for Accounting, Budget and Human Resources  
- Quality Improvement Funds
Dean’s Office Administration

Kaihan Behbahani
Apprentice
- Trainee as Mathematical Technical Software Developer (MATSE)

Sophia Blomeyer, LL.M.
Assistant to the Dean
- Examination Boards
- Application Review

Nabil Bouarga
Apprentice
- Trainee in Office Management
Dean’s Office Administration

Jannik Braß
- Organisation of Academic Matters
- Teaching Assignments

Maria Camacho van den Hurk, M. Sc.
Mentoring and Psychological Counselling
- Mentoring, Psychological Counseling and Learning Strategies for all students of the Faculty of Mechanical Engineering

Monika Dahmen-Göbbels
Doctoral Studies
- Doctorate Procedure
- Graduation Statistics
- Teaching Obligations
Dean’s Office Administration

Andrea Dohms, M. A.
Academic Advisor and Gender and Diversity
• Gender and Diversity
• Coordination Gender AG
• Study Counselling
• RWTH Education Fund

Dipl.-Kff. Stefanie Feurstein
Controlling and Finance
• Accounting
• Quality Improvement Funds

Thomas Fieder, B. Sc.
PuL and RWTHonline - Support
• RWTHonline Modulemanagement
Dean’s Office Administration

Jan Gniazdowski, M. Sc. RWTH
Assistant to the Dean
• Examination Board Mechanical Engineering
• Study Counselor Mechanical Engineering

Sabrina Grübener, M. A.
Advisor of the Study Advisory Council and Coordinator for International Relations
• Advisor of the Study Advisory
• Advisor of the Student Learning Assessment Committee
• Evaluation
• International Cooperation

Krista Haldenwang
IT Specialist
• Application and Database Development
Dean’s Office Administration

Jessica Hill
Event Management
- Event Planning
- Organization and realization of events

Inge Hombrecher-Muckel
Controlling and Accounting
- Accounting of the Faculty

Farah Jumpertz, M. A.
Coordinator for International Relations and Assistant to the Dean
- Establishment and Support of Faculty Contacts Abroad
- International Cooperation
- Study Abroad Counsel
- Examination Board Mechanical Engineering
Dean’s Office Administration

Dipl.-Kff. Jessica Koch
Assistance of the Managing Director
  • Advisor of the Strategy Committee
  • Appointments

Stefan Köpke
Internship Office
  • Accreditation of performed internships

Alexandra Levay
Public Relations and Media
  • Photography and Graphics
  • External Presentation, Print Media
  • Website, Social Media
Dean’s Office Administration

Eva Maintz
Apprentice
• Trainee in Office Management

Vera Mattner
Coordinator for International Relations and Assistant to the Dean
• Establishment and Support of Faculty Contacts Abroad
• International Cooperation, Study Abroad Counsel
• Examination Board Computational Engineering Science and Simulation Sciences

Dipl.-Wirt.-Ing. Martin Müller
Assistant to the Dean
• Examination Board Business Administration and Engineering
• Study Counselor Business Administration and Engineering
• Study Counselor of mechanical engineering related teaching degrees
Dean’s Office Administration

Daniel Nikolic
IT Specialist
  • Application and Database Development

Pascal Pütz
Apprentice
  • Trainee in Office Management

Seda Sancaktar
Coordinator for International Relations
  • Establishment and Support of Faculty Contacts Abroad
  • International Cooperation
  • Study Abroad Counsel
Unique Features of the Faculty of Mechanical Engineering

• We are no. 1 in most rankings of mechanical engineering in Germany.
• We provide 38 % of third-party funds of RWTH Aachen University.
• With 2,427 (WS 18/19) first-year students, we are one of the largest faculties of mechanical engineering in Europe.
• We are involved in 4 of 26 collaborative research centers at RWTH Aachen University.
• We are involved in 4 of 8 Steering Commitees at RWTH Aachen University.
• With 8 Bachelor and 18 Master degree programs we cover the whole scope of machine technology, chemical and process engineering
Advertising Mechanical Engineering Activities at Faculty of Mechanical Engineering

- Consulting Day for pupils in January
- Study Information Day (RWTH Berufetag)
- Girls’ Day & Boys’ Day
- Science Nights “5 vor 12”
- Lecture series “What’s a steam engine?”
  Technological phenomena in the engineering sciences
- Chemical Engineering Day
- RoboScope - Interdisciplinary Robotics Laboratory
- CAMMP - Computational and Mathematical Modeling Program (RWTH Education Laboratory)
- Unihits for Kids and Kids University
- Visits to Institutes
- Speeches in High Schools
- Ladies’ Start
- Ladies‘ Career
Degree Programs
Degree Programs of the Faculty of Mechanical Engineering

Bachelor Programs

- Mechanical Engineering
- Business Administration and Engineering
- Computational Engineering Science
- Technical Communication,
  2nd Major Basic Principles of Mechanical Engineering
- Teacher Training Programs for Vocational Schools in the fields
  - Machine Technology
  - Supply Technology
  - Textile and Clothing Technology
  - Automotive Technology
  - Manufacturing Technology
Degree Programs of the Faculty of Mechanical Engineering

Master Programs (1)

- Production Technology
- Development and Design Engineering
- Chemical Engineering
- Energy Engineering
- Plastics and Textile Engineering
- Automotive and Transportation Engineering
- Aerospace Engineering
- General Mechanical Engineering
Degree Programs of the Faculty of Mechanical Engineering

Master Programs (2)

- Business Administration and Engineering
- Computational Engineering Science
- Automation Technology (interdisciplinary)
- Simulation Sciences (interdisciplinary)
- Automotive Engineering
- Technical Communication,
  2nd Major Basic Principles of Mechanical Engineering (interdisciplinary)
- Teacher Training Programs for Vocational Schools in the fields (M.Ed)
  - Machine Technology
  - Supply Technology
  - Textile and Clothing Technology
  - Automotive Technology
  - Manufacturing Technology
Degree Programs of the Faculty of Mechanical Engineering

Master Programs (3) Privately offered by the RWTH International Academy in collaboration with RWTH Aachen.

- English-taught Programs at RWTH International Academy
  - Computer Aided Conception and Production in Mechanical Engineering
  - Production Systems Engineering
  - Management and Engineering in Production Systems
  - Management and Engineering in Computer Aided Mechanical Engineering
  - Robotic Systems Engineering

- German-taught Program at RWTH International Academy
  - Textile Engineering
Structure of the Mechanical Engineering Program at RWTH Aachen University

Bachelor
- 7 semesters
- 1 bachelor program
- 1st - 4th semester equal for all
- As of 5th semester: 5 occupational field-related modules
- Transition to any master program possible

Master
- 3 semesters
- 9 master programs

Bachelor's Thesis (10 weeks)

20 weeks internship

1 project work (6 weeks)

M. Sc.

Master's Thesis (22 weeks)
Structure of the Business Administration and Engineering in the field Mechanical Engineering Program at RWTH Aachen University

Bachelor
- 7 semesters
- 1 bachelor program
- 1st – 4th semester equal for all
- As of 5th semester: 5 occupational field-related modules

Master
- 3 semesters
- 1 master program
- 6 fields of specialization

Bachelor’s Thesis (10 weeks)

Master’s Thesis (22 weeks)

20 weeks internship

Start of Studies

Time
Structure of the Computational Engineering Science Program at RWTH Aachen University

Bachelor
- 7 semesters
- 1 bachelor program

12 weeks internship

Bachelor's Thesis
(10 weeks)

Master
- 3 semesters
- 1 master program
- 3 fields of specialization

Master's Thesis
(22 weeks)

Start of Studies

Time
### Structure of Modules of the Bachelor Program Mechanical Engineering

<table>
<thead>
<tr>
<th>Modules</th>
<th>Share (in %)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic Principles of Engineering</td>
<td>40 %</td>
</tr>
<tr>
<td>Basic Principles of Mathematics and Natural Sciences</td>
<td>20 %</td>
</tr>
<tr>
<td>Basic Principles of System Sciences</td>
<td>15 %</td>
</tr>
<tr>
<td>Basic Principles of Social Sciences</td>
<td>7 %</td>
</tr>
<tr>
<td>Occupational Field-Related Modules</td>
<td>18 %</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>100 %</strong></td>
</tr>
</tbody>
</table>
Students by Faculty

Fac. 1: Faculty of Mathematics, Computer Science and Natural Sciences
Fac. 2: Faculty of Architecture
Fac. 3: Faculty of Civil Engineering
Fac. 4: Faculty of Mechanical Engineering
Fac. 5: Faculty of Georesources and Materials Engineering
Fac. 6: Faculty of Electrical Engineering and Information Technology
Fac. 7: Faculty of Arts and Humanities
Fac. 8: Faculty of Business Administration and Economics
Fac. 10: Faculty of Medicine

All students in WS 18/19
of which students in first subject-related semester in WS 18/19
Enrollment Development
Faculty of Mechanical Engineering

Series of new registrations as persons

Source: Dezernat 6
Structure and Funding
RWTH Aachen University Figures (2018)

RWTH Aachen University offers 158 study degree programs.

- **Personnel:**
  - 564 Professorships
  - 8,500 Staff (VZÄ)

- **Students:**
  - 45,256 Students total
  - 10,455 Students international

- **Research Networks:**
  - 26 Collaborative Research Centers and Transregio SFBs
  - 15 Affiliated Institutes, 1 Leibniz Institute
  - 5 Fraunhofer Institutes
  - 33 Research Training Programs
  - 1 Graduate School
  - 3 Cluster of Excellence
  - 1 Future Concept

- **Total Revenue:** € 998,5M
  - Third-party funds € 385,M

Source: Department 6
Faculty of Mechanical Engineering Figures (2018)

Faculty of Mechanical Engineering offers 32 degree programs.

- **Personnel:**
  - 62 Professorships
  - 1,441 Research assistants
  - 678 Non-academic staff
  - 1,139 Student and scientific assistants

- **Graduates and academic degrees:**
  - 2,236 Alumni
  - 221 Doctorates

- **Students:**
  - 12,652 Students total
  - 3,264 Students international
  - 2,954 New enrollees (WS 18/19)

- **Total Revenue 2018:** € 365M
  - Budgetary funds: € 101M
  - Third-party funds: € 148M
  - Third-party funds affiliated institutes and FhG: € 101M

Source: Department 6
Third-party Funds of RWTH Faculties 2018

* Graduate Schools, Clusters of Excellence, Institutional Strategy and Collaborative Research Centres

Fac. 1: Faculty of Mathematics, Computer Science and Natural Sciences
Fac. 2: Faculty of Architecture
Fac. 3: Faculty of Civil Engineering
Fac. 4: Faculty of Mechanical Engineering
Fac. 5: Faculty of Georesources and Materials Engineering
Fac. 6: Faculty of Electrical Engineering and Information Technology
Fac. 7: Faculty of Arts and Humanities
Fac. 8: Faculty of Business Administration and Economics
Fac. 10: Faculty of Medicine

External funding (without DFG)  DFG coordinated programmes*

Fak. 1  Fak. 2  Fak. 3  Fak. 4  Fak. 5  Fak. 6  Fak. 7  Fak. 8  Fak. 10  Sonst.
## Assets Planning

<table>
<thead>
<tr>
<th>Basic Assets</th>
<th>Teaching Load</th>
<th>Research Load</th>
</tr>
</thead>
<tbody>
<tr>
<td>W3 (C4): 3 research assistants</td>
<td>Lectures, tutorials, exams etc., 50% of study and final theses</td>
<td>Doctorates, publications and third-party funds, 50% of study and final theses</td>
</tr>
<tr>
<td>W2 (C3): 1 research assistant</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Faculty job pool

- Long-term control of teaching load
- Quota: ± 20% of the faculty average

**Total:**

- Teaching load: ca. 70%
- Research load: ca. 30%
Excellence Initiative and Interdisciplinary Research Partnerships
### Excellence Initiative at the RWTH Aachen University

#### The three funding lines

<table>
<thead>
<tr>
<th>Graduate School</th>
</tr>
</thead>
<tbody>
<tr>
<td>AICES Aachen Institute of Advanced Study in Computational Engineering Science</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Exzellenzcluster</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Integrative Production Technology for High-Wage Countries (until 12/2018) (starting 2019: IoP - Internet of Production)</td>
</tr>
<tr>
<td>• Tailor - Made Fuels from Biomass (TMFB) (until12/2018) (starting 2019: FSC - The Fuel Science Center)</td>
</tr>
<tr>
<td>• ML4Q – Matter and Light for Quantum Computing (Speaker University Uni Köln)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Institutional Strategy II</th>
</tr>
</thead>
<tbody>
<tr>
<td>RWTH 2020: Meeting Global Challenges – The Integrated Interdisciplinary University of Technology</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Internationally Recognised Scientific Profile</th>
<th>JARA Focusing Competences – Shaping the Future</th>
<th>Place to Be</th>
<th>Corporate Governance and Structures</th>
</tr>
</thead>
<tbody>
<tr>
<td>Strengthening the Natural Sciences</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Science Faculty Seed Funds</td>
<td>Fostering Interdisciplinary Research</td>
<td>Diversity Fund</td>
<td>Profile Areas</td>
</tr>
<tr>
<td>Undergraduate Research Funds</td>
<td>Exploratory Research Space</td>
<td>Re-entry Positions</td>
<td>Cooperative Structures</td>
</tr>
<tr>
<td>RWTH-Distinguished Professorships</td>
<td></td>
<td>RWTH Start up</td>
<td>Strategy Fund</td>
</tr>
<tr>
<td>Project House HumTec</td>
<td>Project House IMF</td>
<td>RWTH Lecturer</td>
<td></td>
</tr>
<tr>
<td>Project House CMT</td>
<td>Project House</td>
<td>RWTH Fellow</td>
<td></td>
</tr>
<tr>
<td>SimLabs</td>
<td>JARA-Institutes</td>
<td>Recruitment Strategy</td>
<td></td>
</tr>
<tr>
<td>New Sections</td>
<td></td>
<td>Child Care</td>
<td></td>
</tr>
<tr>
<td>I³ Technology for Medicine</td>
<td>Sections BRAIN, ENERGY, FAME, FIT, HPC, SOFT</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>JARA-Professorships</td>
<td></td>
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</tr>
<tr>
<td></td>
<td>JARA-Institutes</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>New Sections</td>
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</tr>
</tbody>
</table>

- **Profile Areas**
  - BRAIN, ENERGY, FAME, FIT, HPC, SOFT
  - JARA-Professorships
  - JARA-Institutes
  - New Sections

- **Cooperative Structures**
  - Diversity Fund
  - Re-entry Positions
  - RWTH Start up
  - RWTH Lecturer
  - RWTH Fellow
  - Recruitment Strategy
  - Child Care

- **Strategy Fund**
  - Profile Areas
  - Cooperative Structures
  - Strategy Fund
Excellence Initiative
Participation of the Faculty of Mechanical Engineering

First, second and third round of application
Applications approved by DFG and Science Council under the leadership of the Faculty of Mechanical Engineering

• Graduate Schools for promoting young academics
  First line of funding
  – AICES Aachen Institute for Advanced Study in Computational Engineering Science
    - Spokesperson: Univ.-Prof. Marek Behr, Ph. D.

• Exzellenzcluster to promote excellence in research
  Second line of funding
  – Integrative Production Technology for High-Wage Countries (ending 12/2018)
    - Coordinator: Univ.-Prof. Dr.-Ing. Christian Brecher
  – Tailor-Made Fuels from Biomass (ending 12/2018)
    - Coordinator: Univ.-Prof. Dr.-Ing. Stefan Pischinger

Third line of funding
  – The Fuel Science Center (starting 01/2019) – Adaptive Conversion Systems for Renewable Energy and Carbon Sources
    - Spokesperson: Univ.-Prof. Dr.-Ing. Stefan Pischinger
  – Internet of Production (starting 01/2019)
    - Spokesperson: Univ.-Prof. Dr.-Ing. Christian Brecher
Excellence Initiative
Participation of the Faculty of Mechanical Engineering

Third round of application
Activities of the Faculty of Mechanical Engineering within the framework of the Future Concept II RWTH 2020 – Meeting Global Challenges

• Measure 1 - Internationally Recognized Scientific Profile
• Measure 2 - JARA: Focusing Competences – Shaping the Future
• Measure 3 - Place to Be
• Measure 4 - Corporate Governance and Structures
Enhancing Multi-Disciplinary Collaboration

- **CompSE** Computational Science & Engineering  
  - Spokesperson: Univ.-Prof. Dr.-Ing. Wolfgang Schröder
- **ECPE** Energy, Chemical & Process Engineering  
  - Spokesperson: Univ.-Prof. Dr.-Ing. Stefan Pischinger
- **ICT** Information & Communication Technology  
  - Spokesperson: Univ.-Prof. Dr.-Ing. Stefan Kowalewski
- **MatSE** Material Science & Engineering  
  - Spokesperson: Univ.-Prof. Dr. rer. nat. J. Mayer
- **MedST** Medical Science & Technology  
  - Spokesperson: Univ.-Prof. Dr. med. Rolf Rossaint
- **MSE** Molecular Science & Engineering  
  - Spokesperson: Univ.-Prof. Dr. rer. nat. Carsten Bolm
- **MTE** Mobility & Transport Engineering  
  - Spokesperson: Univ.-Prof. Dr.-Ing. Lutz Eckstein
- **ProdE** Production Engineering  
  - Spokesperson: Univ.-Prof. h.c. Dr.-Ing. Fritz Klocke
**I³ - Interdisciplinary Integrated Institutes**

Development and continuation of established interdisciplinary fields of research with a particular strategic meaning

- **I - Cubes recognised as such by RWTH:**
  - **CWD** - Center for Wind Power Drives
  - **TM** - Technolgy in Medicine

- **Other I³ - Cubes identified by Faculty:**
  - **FDC** – Fuel Design Center
  - **HIA** - Helmholtz-Institute for Biomedical Engineering of the RWTH Aachen
  - **iCBT** - Center for Human Centered Building Technology
  - **MS** - Modeling and Simulation
  - **NGP²** - Center for Next Generation Processes and Products
  - **ZMB** - Center for Metallic Design
Project Houses

Intensively working on current and particularly relevant research fields in the context of global challenges

- Project Houses recognised as such by RWTH:
  - ACA - Center for Automotive Catalytic Systems
  - CMT - Center for Molecular Transformations
  - P2F - Power to Fuel

- Project Houses identified by Faculty:
  - CERM - Center for European Research on Mobility
  - CMM - Center for Mobile Machinery
  - CMP - Center for Mobile Propulsion
  - TESA – Technical-Based Energy System Analysis
  - ZEP – Center for Electric Car Production
Collaborative Research Centers and Transregio SFBs

- **SFB 1120**  Precision manufacturing by controlling melt dynamics and solidification in production
  - Spokesperson: Univ.-Prof. Dr. rer. nat. Reinhart Poprawe

- **TRR 129**  Oxyflame - Development of Methods and Models to Describe Solid Fuel Reactions within an Oxy-Fuel Atmosphere
  - Spokesperson: Univ.-Prof. Dr.-Ing. Reinhold Kneer

Collaborative Research Centers and Transregio SFBs with Participation from RWTH Researchers

- **TRR 96**  Thermo-Energetic Design of Machine Tools
  - Coordinating at RWTH: Univ.-Prof. Dr.-Ing. Christian Brecher
  - Spokesperson University: University of Dresden

- **TRR 40**  Technological Foundations for the Design of Thermally and Mechanically Highly Loaded Components of Future Space Transportation Systems
  - Coordinating at RWTH: Univ.-Prof. Dr.-Ing. Wolfgang Schröder
  - Spokesperson University: University of Munich
DFG - Research Units

• **FOR 1779**  Active Drag Reduction by Transversal Surface Waves  
  – Spokesperson: Univ.-Prof. Dr.-Ing. Wolfgang Schröder

• **FOR 1087**  Damping Effects in Machine Tools  
  – Spokesperson: Univ.-Prof. Dr.-Ing. Christian Brecher

DFG – Research Units with RWTH Involvement

• **FOR 2089**  Durable Pavement Constructions for Future Traffic Loads Coupled System Pavement-Tyre-Vehicle  
  – RWTH Participants: Univ.-Prof. Dr.-Ing. Lutz Eckstein

• **FOR 1585**  Multi-Port Bone Surgery Using Otobasis as an Example (MUKNO)  
  – RWTH Participants: Univ.-Prof. Dr.-Ing. Robert Schmitt
DFG - Research Training Groups

- **GRK 1856** Integrated Energy Supply Modules for On-Road Electromobility - mobilEM
  - Spokesperson: Univ.-Prof. Stefan Pischinger

- **IGK 2379/1** Modern Inverse Problems: From Geometry and Data to Models and Applications
  - Spokesperson: Univ.-Prof. Marek Behr, Ph.D.

**DFG – Graduate School**

- **AICES** Aachen Institute for Advanced Study in Computational Engineering Science
  - Scientific Director: Univ.-Prof. Marek Behr, Ph. D.
Other Programs

Marie-Curie-Initial Training Networks (ITN)

- **BiolImplant**  European Training Network to develop improved Bioresorbable Materials for Orthopaedic and Vascular implant Applications
  - Coordinator: Univ.-Prof. h. c. (MGU) Dr.-Ing. Dipl.-Wirt. Ing. Thomas Gries

- **Super-W**  Sustainable Product, Energy and Resource Recovery from Wastewater
  - Coordinator: Univ.-Prof. Dr.-Ing. Matthias Wessling

- **ModLife**  Advancing Modelling for Process-Product Innovation, Optimization, Monitoring and Control in Life Science Industries
  - Coordinator: Univ.-Prof. Alexander Mitsos, Ph. D.

GRS  German Research School for Simulation Sciences

- Spokesperson: Univ.-Prof. Marek Behr, Ph. D.
Other Programs

EU Projekte coordinated by RWTH Aachen

- **TETRAMAX**  Technology TRAnsfer via Mulinational Application eXperiments
  - Coordinator: Univ.-Prof. Dr.-Ing. Lutz Eckstein

- **MeBeSafe**  Measures for behaving safely in traffic
  - Coordinator: Univ.-Prof. Dr.-Ing. Lutz Eckstein

FET Flagships and EIT KICs with RWTH Involvement

- **Climate-KIC**  Knowledge and Innovation Community
  - RWTH Associated Partner: Univ.-Prof. Dr.-Ing. André Bardow

ERC Advanced Grant

- **MILESTONE**  Multi-Scale Description of Non-Universal Behavior in Turbulent Combustion
  - Grantholder: Univ.-Prof. Dr.-Ing. Heinz Pitsch

- **ConFluRem**  Controlling Fluid Resistances at Membranes
  - Grantholder: Univ.-Prof. Dr.-Ing. Matthias Wessling
Appropriation of Tuition Fee Substitutes
Tuition Fee Substitutes
Appropriation Procedures Basics

Basics for the appropriation of tuition fee substitutes:

„White Paper on the utilization of tuition fee substitutes: at the Faculty of Mechanical Engineering of RWTH Aachen University“

Key principles of the white paper:

„Improvement of the quality of education as a primary goal for the utilization of funds from tuition fee substitutes“

Target to be achieved by the following measures:

Measures for a significant increase of the success rate and support of the core subjects of mechanical engineering“

„Measures to promote excellent students“

(Faculty Council Decision on Dec. 12th, 2006)
Tuition Fee Substitutes
Appropriation Control Loop

Revenue from tuition fee substitute → Subcommittee tuition fee substitutes → Dean's Office

Other measures, if necessary → Subcommittee tuition fee substitutes

Subcommittee tuition fee substitutes → Budget Committee

Budget Committee → Study Advisory Council

Study Advisory Council → Faculty Council

Faculty Council → Institutes

Institutes → Evaluation Committee

Evaluation Committee →Dean's Office

Dean's Office →Other measures, if necessary
Faculty International
Faculty International
Study Abroad

- **ERASMUS**
  - More than 70 European partnerships on faculty and institute level

- **International Study and Education Partnerships: USA, Australia and Mexico**
  - Institute contacts with US and Australian universities through the DAAD ISAP Program

- **Korea University and Hongik University**
  - Study abroad South Korea

- **Zhejiang University, Northwestern Polytechnical University (NPU) and University of Michigan - Shanghai Jiao Tong University Joint Institute**
  - Study Stay at the prestigious Universities in the People’s Republic of China

- **Joy Programm**
  - Cooperation with the Yokohama National University (YNU) in Japan

- **ITESM**
  - Cooperation with Instituto Tecnológico y de Estudios Superiores de Monterrey in Mexico

- **Tsinghua (Double Degree)**
  - Joint Degree with Tsinghua University in Beijing

- **Ecole Mines de Douai and DFH/T.I.M.E. France (Double Degree)**
  - Double Diploma Program with five Grandes Écoles in France

- **T.I.M.E. Japan (Double Degree)**
  - Double Diploma Program with one of Japan’s leading technical universities

- **T.I.M.E. Valencia (Double Degree)**
  - Double Diploma Program with one of Spain’s leading technical universities Universidad Politécnica de Valencia (UPV)

- **Wroclaw (Double Degree)**
  - Double Diploma Program with one of Polen’s leading technical universities Wroclaw University of Science and Technology (WUST)

- **German University of Technology (GUtech)**
  - Internships and stays as tutor at technical university in Oman

- **Free Mover**
  - Support for self-organized exchanges
Faculty International Mobility

- Recommended mobility time slots (B.Sc.) from 5th semester on
  
  ![image of 5 semester blocks, 1-2-3-4-5, with the 5th semester highlighted]

- Recommended mobility time slot (M.Sc.): 2nd/3rd semester
  
  ![image of 2 semester blocks, 1-2, with both semesters highlighted]

Presentation of the Faculty of Mechanical Engineering | October 2019
Faculty International

International students at the RWTH Aachen in WS 2018/19 sorted by faculties

Fac. 1: 1.861 (18%)
Fac. 2: 431 (4%)
Fac. 3: 874 (7%)
Fac. 4: 3.264 (31%)
Fac. 5: 1088 (11%)
Fac. 6: 1.668 (16%)
Fac. 7: 383 (4%)
Fac. 8: 315 (3%)
Fac. 9: 571 (6%)
Fac. 10: 0

Source: Department 6