Friedrich-Alexander-Universität Erlangen-Nürnberg
HRK – KCUE Higher Education Policy Forum

Best Practices of Korean-German cooperation: The FAU Busan Campus

Prof. Dr. Karl-Dieter Grüske
President of FAU
Overview

- **FAU Erlangen-Nürnberg** – the mother university
- **FAU Busan** – Branch Campus in South Korea

- Strategic Aims & Chronology
- Organisation & General Facts
- Student Development & Research Projects
- Challenges
Bavaria in Germany

**Bavaria:**
Area 70,000 km²  
(Switzerland 41,000 km²)  
Inhabitants 12.5 m  
(Austria 8.4 m)  
GDP (2012) € 446 b  
(Thailand € 257 b)
FAU – Research Facts and Figures

Renowned Awards
• 4 Nobel Prizes
• 8 ERC Grants
• 5 Leibniz Laureates
• 2 Körber Prizes
• 1 Krupp Prize
• 3 Humboldt Professors

Cooperations with:
• 1 Max Planck Institute
• 1 International Audio Lab
• 2 Fraunhofer Institutes
• 1 Helmholtz Institute
• 1 FMER Cluster
  ‘Medical Valley EMN’ …

German Excellence Initiative
• 1 Cluster of Excellence ‘Engineering of Advanced Materials’
• 1 Graduate School of Excellence ‘Advanced Optical Technologies’
FAU – General Facts and Figures

• One of the top research universities in Germany
• 5 faculties (incl. Faculty of Engineering)
• 35,500 students
  (one of the 12 large universities in Germany)
• 639 professors
• 12,000 members of staff
  (incl. assistant professors & hospital’s staff)
• 66 Bachelor’s degree programmes
• 79 Master’s degree programmes
• €160 m in third-party funding
## Major Research Areas

<table>
<thead>
<tr>
<th>Humanities, Social Sciences, and Theology</th>
<th>Business, Economics, and Law</th>
<th>Medicine</th>
<th>Sciences</th>
<th>Engineering</th>
</tr>
</thead>
<tbody>
<tr>
<td>New Materials and Processes</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Optics and Optical Technology</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Molecular Life Science and Medicine</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Health Technology</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electronics, Information and Communication</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Energy, Environment and Climate</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Language – Culture – Region</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cohesion – Transformation – Innovation in Law and Economics</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
International Relations – Facts and Figures

- Over **500** international partner universities in more than 70 countries
- Attractive to international researchers as recognised in the Alexander von Humboldt Foundation’s rankings:
  - **Rank 5** in natural sciences
  - **Rank 7** in engineering
  - **3** Humboldt professorships (€ 15 m in funds)
- **32** international Bachelor’s and Master’s Degree Programmes
- **19** English degree programmes with around 600 students
- **FAU Campus Busan**
FAU Busan – Strategic Aims

• Positioning FAU in an international setting
• Joint research with Korean Scientists
• Chances for able young researchers
• International experience / exposure for students
• Expanding pre-existing networks in Korea
• Intensifying contacts to international / Asian industry
• Bridging the gap between Asia and Europe
FAU Busan - Chronology

- 2003: Joint degree programme in engineering
- 2007: Invitation to establish a Branch Campus in Busan
- 2008: Development phase
- 2009: *Agreement on Establishment and Operation of FAU Busan*
- 2010: Planning and construction phase
- 2011: Official opening ceremony in March 2011
- 2011: Establishing a research laboratory in biotechnology
- 2011: Start of Master’s programme in Chemical and Bioengineering
- 2013: Third student intake
FAU Busan - Organisation

Campus Busan
Teaching / Research

FAU Busan GmbH
Finance / Student Affairs
FAU Busan – General Facts (Education)

• Master’s degree in Chemical and Bioengineering
• Same coursework as in Germany, German degree
• Integrated teaching structure
• Linked to Korean universities
• Mandatory internship
• Opportunity for study abroad
FAU Busan - Student Development

- Korean
- German
- Others

2011 Spring  2011 Fall  2012 Spring  2012 Fall  2013 Spring
## FAU Busan – Research Projects

<table>
<thead>
<tr>
<th>Title</th>
<th>Principal Investigator</th>
<th>Funds</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Antivirals from Microalgae</td>
<td>Prof. Dr. Buchholz</td>
<td>1390 m KRW /3 years</td>
<td>KIAT (MKE)</td>
</tr>
<tr>
<td>Partial Hydrogenation of Aromatics</td>
<td>Dr. Haumann</td>
<td>330 m KRW/2 years</td>
<td>DFG</td>
</tr>
<tr>
<td>KOEI Chemicals</td>
<td>Prof. Dr. Wasserscheid/ Dr. Haumann</td>
<td>315 m KRW/2 years</td>
<td>KOEI</td>
</tr>
<tr>
<td>BB21: Graduate School</td>
<td>Dr. Ertunc/Dr. Lindenberger/Mr. Luzi</td>
<td>350 m KRW/5 years</td>
<td>Busan Metropolitan City</td>
</tr>
</tbody>
</table>
FAU Busan – Challenges

• Establishment phase
  • Gaining trust among students and parents
  • Building an academic network, intensifying industry contacts

• Korean expectations: scholarships

• Location factor: Busan vs. Seoul

• Outlook:
  • First graduates in 2013
  • Enabling international careers for students
  • Founding an international network of global professionals
Thank you for your attention!