Promotion of Young Scientists
In the News in Europe....

... on 16 October, 2006 in the *Neue Zürcher Zeitung*

Illustration taken from: http://www.kleinert.de/illustratoren/schuessler/Zeitungsleser_T.gif;
Research Needs Sufficient Funding: International Comparison of R&D Spending

GERD as a % of GDP

It is the Human Being that Counts

There is no research without researcher: People are at the heart of science.

Building up the human potential is the alpha and omega of science.

"Some are born great, some achieve greatness, and others have greatness thrust upon them" (Shakespeare, Twelfth Night, Act II, Scene V)

In our world, we cannot rely on researchers being born researchers, or researchers being thrust upon us,

in our world, we have to foster the researcher in the child, the researcher in the growing man / woman and the researcher in the early stages of the academic career.

DFG-Promotion of Young Researchers

Illustration taken from: http://www.wdr.de/themen/kultur/bildung_und_erziehung/uni_bonn/050709.jhtml
DFG-Promotion of Young Researchers

Excellence

Early Independence

Internationality

Illustration taken from: http://www.wdr.de/themen/kultur/bildung_und_erziehung/uni_bonn/050709.jhtml
DFG's Promoting Young Researchers

Promoting early independence

Funding for one’s own position
- opportunity to carry out research projects independently at an early stage

Emmy Noether Programme
- opportunity to acquire the formal qualifications for a professorship after the PhD

Heisenberg Programme / Professorship
- funding for excellent young researchers who already hold the formal qualifications for a professorship

Promoting Research Training

Research training groups
- education and training of doctoral and post-doctoral students within the framework of an interdisciplinary research programme

EURYI Awards
- joint call for proposals by European research funding organisations under the umbrella of EUROHORCs
- funding for outstanding young researchers to work in one of the participating European countries
**Research Training Groups**
- established in 1990
- linking research and training
- funding for a maximum of 9 years to support young researchers in their pursuit of a doctorate

**International Research Training Groups**
- established in 1998
- provide opportunities for joint doctoral training programmes between German universities and universities abroad
- jointly developing and supervising the research and study programmes
- doctoral students in the programme complete a six-month research stay at the respective partner institution

**Currently funded:**
- 269 Research Training Groups in Germany
- 51 International Research Training Groups

(Date 10/2006)
International Research Training Groups

Number of Internat. Research Training Groups

Approvals by Scientific Disciplines

Engineering (4)
Humanities (8)
Natural Sciences (19)
Life Sciences (20)

bilateral:
- Netherlands: 8
- France: 7
- USA: 5
- China: 5
- Switzerland: 4
- Sweden: 3
- UK: 2
- Poland: 2
- Denmark: 2
- Italy: 1
- Norway: 1
- Hungary: 1
- Japan: 1
- Korea: 1
- Russia: 1

trilateral:
- France / UK: 1
- UK / Belgium: 1
- Italy / Austria: 1
- France / Luxemburg: 1
- Switzerland / Austria: 1
- Japan / USA: 1

quadrilateral:
- Denmark / Finland / Italy: 1

10/2006
DFG-Promotion of Young Researchers

Illustration taken from: http://www.wdr.de/themen/kultur/bildung_und_erziehung/uni_bonn/050709.jhtml
The German "Excellence Initiative"

Joint funding by the government (75%) and the federal states (25%)


20% of the project grant sum for indirect costs of research

Overall Strategy for Top-Level University Research

- Research Training Schools
  - approx. 40 Research Training Schools
  - approx. 1 million € p.a. each

- Clusters of Excellence
  - approx. 30 Excellence Centres
  - approx. 6.5 million € p.a. each

Illustration taken from: http://www.kopfbedeckung.de/index.html
DFG-Promotion of Young Researchers

Excellence
Early Independence
Internationality

Illustration taken from: http://www.wdr.de/themen/kultur/bildung_und_erziehung/uni_bonn/050709.jhtml
Examples of Funding Research in an International Context

**Funding for Young Researchers**
- DFG International Research Training Groups
- EURYI (European Young Investigator Awards)

**Supranational Funding**
- Organization for Basic Research
  - European Research Council

**Cooperative Projects**
- DFG Individual Projects
- Coordinated Programmes
  - DFG Research Centres
  - Collab. Research Centres
- Bilateral Projects and Project Preparation

The ERC: Strengthening Basic Research in Europe

**TWO FUNDING INSTRUMENTS**

1. ERC *Starting Independent Researcher Grant Scheme* (from 2007)
   - approx. 200 grants annually
   - funding for up to 5 years per proposal
   - 300-350 mio. € per year

2. ERC *Advanced Investigator Grant Scheme* (start in 2nd year of ERC expected)
   - approx. 200 grants per year
Korean – German / European Cooperation

Illustration taken from: http://www.icja.de/50jump.JPG
DFG-Funding in Cooperation with KOSEF and KRF

Funded persons 2003-2005

2003 2004 2005

- personal exchange*
  - Korean researchers to Germany
  - German researchers to Korea
- symposia
- bilateral projects

* and preparatory visits for planning and formulating joint research projects
First German-Korean Research Training Group in Optoelectronics

Research Training Group: "Self-organised Materials for Optoelectronics"
- from 02.11.2006
- linking basic research and application-oriented research
- interdisciplinarity

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<tr>
<th>Germany</th>
<th>Korea</th>
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<td><img src="image" alt="Germany flag" /></td>
<td><img src="image" alt="Korea flag" /></td>
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<tr>
<th>Research Funding Organisations</th>
<th>German Research Foundation (DFG)</th>
<th>Korea Science and Engineering Foundation (KOSEF)</th>
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<tr>
<td>Participating universities</td>
<td>University of Mainz (coordinator: Prof. Dr. Rudolf Zentel, Inst. of Organic Chemistry)</td>
<td>Seoul National University (coordinator: Prof. Dr. Do Yeung Yoon, Dep. of Chemistry) Hannam University</td>
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Formula for success:
internationally accepted material sciences and basic research (German side) in cooperation with world-famous application-oriented research (Korean side)
In the News in Korea?

DOCUMENTA
KASSEL
16/06 — 23/09
2007

Thank you for your attention

Illustration taken from: http://www.kleinert.de/illustratoren/schuessler/Zeitungsleser_T.gif;
http://www.documenta12.de/shop.html