Cooperation between Informatics and Engineering Disciplines in Germany:
Motivation, Activities, and first Results

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Contents

- "Fakultätentag" Informatics
- 4ING "Fakultätentage" for Engineering and Informatics
- Common future problems
- Landscape of relevant institutions/persons for E&R at University
"Fakultätentag" Informatics: Institution

- Informatics faculties/institutes of ~50 universities in Germany, representing
  - 750 professors
  - 2000 assistants
  - 50,000 Informatics/CS students
- Well-defined process to become a member
- Plenary session every year
  - 2005 Braunschweig, 2006 Ilmenau
  - accompanied by a workshop "Evaluating lectures by students" (2006)
- Board: 4-6 meetings or phone conferences
- Commission for studies
"Fakultätentag" Informatics: Activities

• Informatics voice: Common interests of university faculties
  although universities are in competition (rankings, eval.)

• Guarantee quality level of university Informatics

• Study frame for Bachelor/Master curricula
  in 2004 (see talk of Prof. Heiß)

• Current topics
  – Accreditation
  – Bachelor/Master transition
    (talk of Prof. Reischuk)
  – Evaluation of departments
    …

  see below
"Fakultätentage" for Engineering and Informatics

- Members:
  - Mechanical and Process Engineering
  - Civil Engineering and Geodesy
  - Electrical and Information Engg.
  - Informatics/CS

- Represents all corresponding activities at universities and institutes of technology

- Represents
  - 2000 professors
  - 10,000 assistants
  - 120,000 students

\{ \text{4ING} \quad \text{"for engineers"} \} \quad \text{The scientific Engineering / Informatics Power}
4ING: Current Activities

✓ Statement Ph.D. studies
   Signed by VDMA, ZVEI, VDI, GI, …
✓ Recommendation Ph.D. studies for faculties
✓ Statement Capacity Problems 2005 – 2020
   demographic problems, changes secondary schools
✓ Organizing ourselves
   law, management, financing, …

…
Common Problems of 4ING Faculty Conferences

• Freshmen acceptance test
• Self assessment for 4ING students
• Qualification framework & outcome orientation
• Accreditations: Experiences, organization of this mass business, uniformity
• Frames for Bachelor/Master Curricula and how they are followed
• Quality evaluation of faculties
• Quality stamps for faculties
• Quality evaluation of publications
• Lecture evaluation by students
• Further and contd. education (more important due to BaMa)
The Landscape of relevant Institutions/Persons for University E&R

> 200, not complete

Politicians for Education & Research
In Federal and State Parliaments
Corresponding Commissions

State paid institutions
HIS
CHE
BLK
KMK
HRK

Ministries
BMBF
16 State Ministries for Education & Research

Administrative personnel

Politicians for Education & Research

Industrial organizations
BDI
DIHK
HDB
VDMA
ZVEI
BITKOM

Professional organizations
VDI
VDE
GI

Bundesingenieurkammer
Landesingenieurkammern

Research sponsors
DFG
VW Stiftung
Stifterverband
...

Accreditation Council

acatec
DVT
Wissenschaftsrat

Universities (~85)
Rectors

“Fakultätentage” (~20)

Professors

4ING
AFT

TU9

Universities (~85)

DAAD, ...