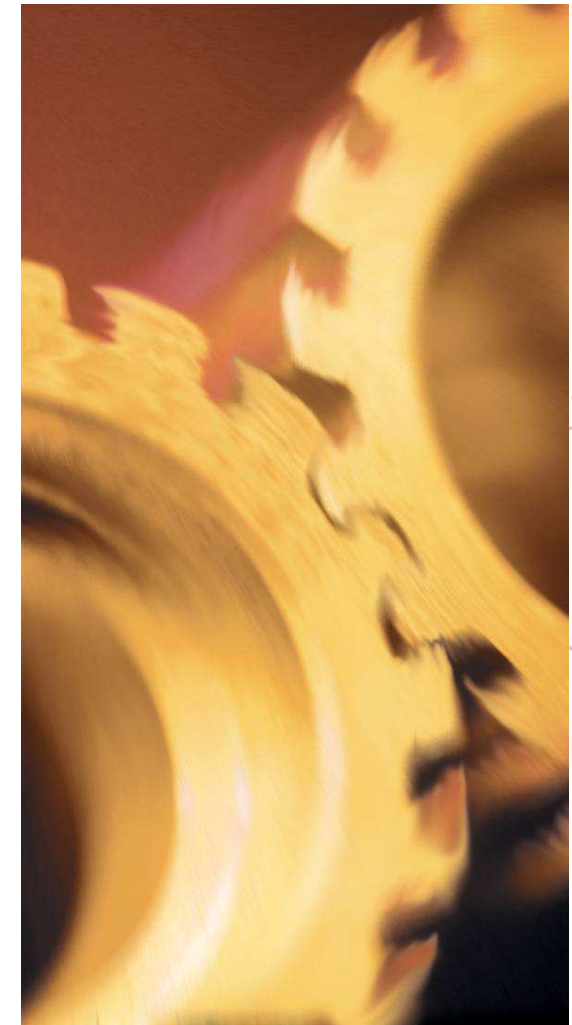


SCIENCE WEEK 2009 SESSION A: Research and Higher Education

Mads Nygård

Dean of Engineering Education

Norwegian University of
Science and Technology



Particular examples

- NTNU & MIT: (+ !)
 - Fully financed, joint & balanced PhD program (Technology)
 - Including flexible, bilateral agreements (StatoilHydro etc.)
 - Jointly supervised PhD students (Simple agreements per project)
 - One student at NTNU & One student at MIT (Symmetry per project)

- NTNU & Berkeley (- ?)
 - Asymmetric student transfer (Sociology)
 - 50 per year (Is being used)

Good models

- Different models for different needs – and adaptable ones
 - Long term, robust agreements
(Addressing recognition, financing, responsibilities, IPR etc.)
 - Flexible, non bureaucratic frameworks
(Get rid of the forms ! – Even for “freemovers” ...)
 - Nation, institution, department or professor based
(Established top-down & bottom-up)

Big opportunities / Big challenges

- Challenges
 - Financing of exchange students (Fees / Expenses !?)
 - Asymmetry in exchange numbers (Still there ?!)
 - Free education is not bad education ...
 - Red tape in all forms ...
- Opportunities
 - Extend existing frameworks (The EU way)
 - Market existing possibilities (Credits may be exchanged etc.)
 - More English based teaching & More Globally oriented issues ...
 - Travelling students & Virtual meetings ...

Concrete goals and actions

- Actions
 - Learn from each other ! (Many success stories)
 - More conferences ... (For some time)
 - Try joint efforts ? (Addressing differences in size)
- Goals
 - +10 years: No more conferences needed (Big Hairy Goal)
 - + 3 years: More than isolated regions (The Atlantic / Pacific coasts)
 - +1 year: Some joint efforts established (Small Realistic Goal)

Numbers

- NTNU-USA
 - From Norway: 81 (2007) -> 141 (2008) (mostly without agreements)
 - To Norway: 15 (2007) -> 24 (2008) (mostly with agreements)
 - Newest numbers: Doubling again
- NTNU-Canada
 - From Norway: 22 (2007) -> 15 (2008) (...)
 - To Norway: 1 (2007) -> 3 (2008) (...)
 - Small numbers: Difficult to interpret
- Reasons
 - The English language does make a difference
 - “Surfing” in Australia does not pay off