

2006 International Mechanical Engineering Education Conference



Service Industry Perspectives on
Industry – University Collaboration for the
Engineer of the Future

April 4, 2006
Beijing, China

Richard E.(Gene) Feigel, Ph.D.
Vice President
The Hartford Steam Boiler Inspection & Insurance
Company
HSB Risk Analysis Group

Service Industry Perspective

- Environment
- Engineering at Hartford Steam Boiler
- University Collaboration

Service Industry Environment

- Business integration
- Interdisciplinary
- Teamwork
- Global



HSB Risk Analysis Group

Hartford Steam Boiler

- Founded by engineers in 1866
- Largest mechanical equipment insurer in US (substantial international business)
- “We would rather prevent accidents than pay for them.”
- 40% of employees are engineers and technicians



HSB Risk Analysis Group

Engineering at HSB

- Greatest challenge – new technologies
- Loss prevention
- Failure analysis
- Catastrophe modeling
- Financial risk optimization
- New product development
 - Decision analysis
 - Financial modeling
 - Expert elicitation



HSB Risk Analysis Group

Profile of an HSB Engineer

- Solid core engineering skills
- Creative
- Broad perspective
- Matrix skills
- Life long learning
- Team environment
- Customer focus
- Communications



HSB Risk Analysis Group

University Relations

- Two way street
- Internships
- Involvement with ASME student sections
- Research projects



HSB Risk Analysis Group

What Can Universities Do for HSB?

- Disseminate information on research
- Employ web based seminars
- Be more aggressive in industry outreach



HSB Risk Analysis Group

Working together we can all succeed!

Thank you!



HSB Risk Analysis Group