报告题目: Inventive Engineering

报告人: Prof. Tomasz Arciszewski
Department of Civil Engineering, George Mason University, USA

报告时间:

1. **Bio-Inspiration in Inventive Design**
Jan. 2, 2013, 3.00 pm (由于飞机延误原定 Dec. 28, 2012 报告取消)

2**. Inventive Engineering: An Outline**
Jan. 3, 2013, 10.00 am

3. **Successful Education: the Key to Inventive Engineering**
Jan. 3, 2013, 1.30 pm

4. **Edison's System and Modern Innovation** Engineering
Jan. 4, 2013, 10.00 am

报告地点: 精密仪器系 会议室 4304

主办单位: 精密仪器系设计所

简介: Dr. Tomasz Arciszewski is an interdisciplinary scholar interested in inventive engineering, knowledge acquisition and holistic and computational approaches to inventive design and education. Dr. Arciszewski has published more than 160 research and technical articles in journals, books and conference publications. He is also an inventor with patents in the areas of tall buildings and spaces structures obtained in Canada , Poland and the US.

Lecture Outlines

1. Bio-inspiration in Inventive Design
    Knowledge acquisition
    Visual and conceptual inspiration
    Computational inspiration
    Conclusions

2. Inventive Engineering: An Outline
    Why me?
    Why Inventive Engineering?
    What to learn from the Past?
    What is Inventive Engineering
    How to do it?

3. Successful Education: the Key to Inventive Engineering
    Why Reinventing Education?
    Transdisciplinary Knowledge

Lessons of the Past:
- Renaissance Man
- Medici Effect
- Da Vinci's Principles

Lessons of Today
- Creative Class
- Successful Intelligence
- Appreciative Intelligence

Successful Education

Conclusions

4. Edison's System and Modern Innovation Engineering

Innovation Engineering: Big Picture

Edison's system:
- Myths and truths
- Life
- Five competences & 25 elements
- Innovation Literacy

Conclusions

Notes: this seminar is related to the International Collaboration Innovation Team Project of Tsinghua University (清华大学重点学科高水平国际合作创新团队支持项目)