

IP Teaching in Science and Engineering Faculties

3rd Annual Meeting of the European Intellectual Property Teachers' Network

Queen Mary University of London

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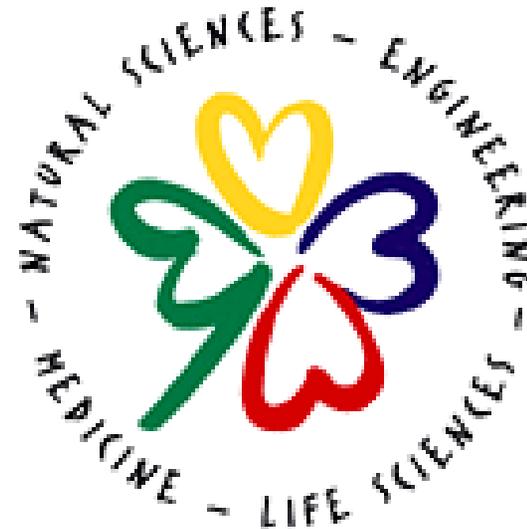


My background and my point of view:

- **natural scientist (not a lawyer!)**
- **working for a Technical University**
- **as a former researcher**
- **now as a Technology Transfer Officer**
- **and also as an Inventor Consultant**
- **one crucial personal experience...**

The Technische Universität München

- 13 faculties
 - 23,338 students
 - 18% students from abroad
 - 3,616 teaching staff
 - 2,962 non-academic staff
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- total budget 2007: €793.19 million
 - research funding: €179.1 million
 - **Ø 116 Invention Reports per year**
 - **Ø 26 patent applications per year**



TUM ForTe Office for Research and Innovation

Research Support

National / regional cooperative projects

International / European cooperative projects

Cluster projects (German Excellence Initiative)

Office for young researchers

Research Database

TUM Research Database

Analyses (research)

Technology Transfer Industry Liaison Office

Industry Liaison Office
Centre for Knowledge Interchange (CKI)

Patent and Licensing Office

in cooperation with:

↓

TUM Legal Office

UnternehmerTUM GmbH:
TUM's Entrepreneurship Centre

gate: Garching Technology and Entrepreneur Centre

Technology Transfer and Universities

Primary role of universities:

- **Educate** its students
- **Generate knowledge** through research: scientific, technological, professional, “meaning-giving” knowledge
- Ensure that **knowledge** developed on a public funded research base is **utilised** effectively for the benefit of economy and society

**All three missions have
strong connections to IP issues!**

Life cycle of an invention

Revenues:
Inventor
Institute

University

- provide **funds and infrastructure**
- promote and intensify the **IPR culture**
- raise **awareness** for the importance of IPR

commercial
exploitation

generation and reporting
of inventions

patent application

evaluation

claiming ownership

release
to inventors

The challenges

- my personal experience: first contact to IPR system during my doctoral thesis
- students/Researchers (**inventors**) are key players in the generation, protection and commercial exploitation of IPR
- fail to recognize the potentials of their research results
- traditionally they concentrate on their academic responsibilities of teaching and research and on publishing
- lack knowledge of the legal and especially the IPR system and
- lack of entrepreneurial skills

**☠ Reasons for releasing inventions:
not new, no inventive step, no commercial application**

What do we need?

- A culture/environment that supports and encourages both invention disclosure and the inventor(s) participation in the technology transfer process
- A university patent strategy which includes **information and training support**
 - ⇒ There are many ingredients to create a culture which allows technology transfer to thrive
 - ☞ incorporate technology transfer issues into the curricula
 - ☞ publicize success stories about how TT can have a positive impact on the persons and the institute
 - ☞ facilitate access to technical information contained in patent documents to support research and development projects
 - ☞ provide possibilities for students/researchers to learn both worlds (offer internships in patent offices/patent departments)

Lessons (to be) learnt

- Don't start work without a **contract** - prioritise contract negotiations
- Define, document and secure **(background) rights**
- Consider IPR that is owned by **students** and that is maybe needed for your research
- Involve always (and at the earliest) the **legal staff** of your organization
- Don't rely (only) on **personal relationships**

Summary - Appeal

My very personal, ideal IPR lecture for students of a Technical university contains:

- **IPR issues**
- **Technology Transfer examples (best cases!)**
- **other Legal issues (e.g. Civil Law, contract governing issues etc.)**
- **business elements (e.g. issues of spin-off and start-up companies)**

Thank you for your attention!

**TUM Office for Research and Innovation
Patent and Licensing Office**

Dr. Alexandros Papaderos

Phone: +49.89.289.22611

Fax: +49.89.289.28381

E-Mail papaderos@zv.tum.de