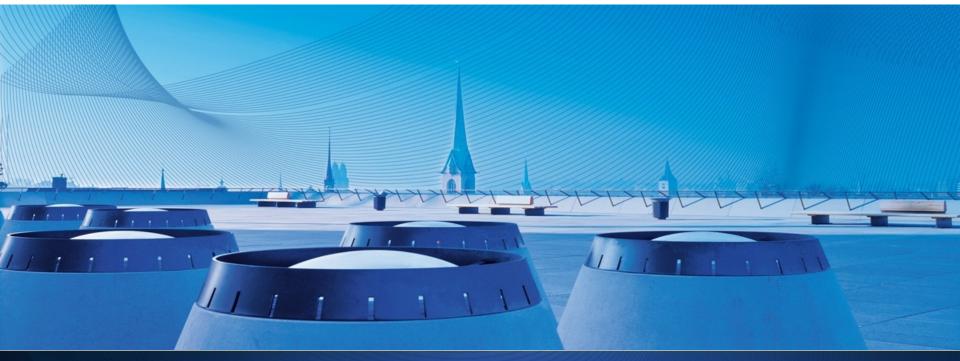
Technology Transfer from Academia to Industry - How the Tech Transfer Offices can assist you

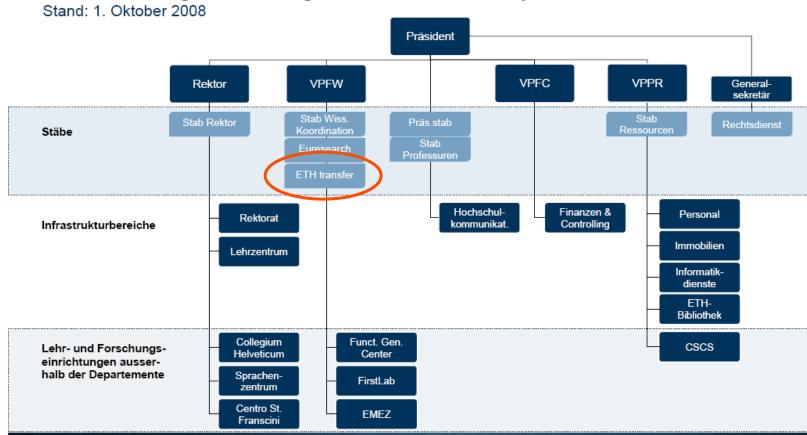
Dr. Silvio Bonaccio, Head of ETH transfer





ETH transfer - Embedment In ETH Zurich

Organigramm der ETH Zürich: Schulleitung und Zentrale Organe sowie Lehrund Forschungseinrichtungen ausserhalb der Departemente



Dienstag, 19. August 2008

Technology transfer support at ETH Zurich



Dr. Donald Tillman Director

Corinna Adler

Nathalie Fontana

Director Strategic

Director Strategic

Franziska Juch

Lioudmila Thalmann

Finance & Organisation

Alumni Fundraising

Partnerships

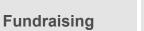
Vacant

NP

Partnerships



NP



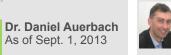
Dr. Niklaus Bühler Honorary Counsel ETHZ Senior Industrial Relations Officer

Industry Relations

ieLabs

Dr. Peter Seitz

I&E Lab Coordination



Dr. Andreas Klöti Head Group, Industry Partnerships D-BSSE, D-CHAB, D-MATL

Research Agreements

ETH transfer

Dr. Alexa Mundy D-BIOL, D-HEST, D-MAVT

Hannah Greiner, RA

Legal Counsel ETH transfer

D-MAVT, D-PHYS, D-USYS

Yvonne Andreoli, RA

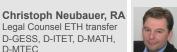
Legal Counsel ETH transfer

D-MTEC

General



D-ARCH. D-BAUG. D-ERDW, D-INFK, Christoph Neubauer, RA Legal Counsel ETH transfer





Dr. Silvio Bonaccio

Head ETH transfer

Patents & Licenses

Head Group,

D-HEST

Dr. Silke Mevns

D-CHAB, D-ERDW,

Software Licenses

Commercialization

Technology

Dr. Matthias Hölling

D-INFK., D-ITET, D-MATH

Dr. Marjan Kraak



Emanuel Weber NP As of June 1, 2013





Dr. Matthias Hölling Head Group



Dr. Marjan Kraak Spin-offs Life Science



Dr. RA lic.iur LL.M. **Daniel Ronzani** Legal Counsel



Dr. Bernhard Hostettler Patents & Licenses

Temporary Support





Backoffice

Elisabeth Schlegel Research Agreements



Patricia Huber **Research Agreements**



Patrizia Zuppinger Patent & Licenses Administration



Research Collaboration with Industry - Prerequisites

- Project is scientifically or technically relevant.
- Results can be used afterwards freely for further research and educational purposes.
- Publication rights are granted to ETH Zürich (Secrecy ?!).
- Reasonable agreement with regard to ownership of IP and rights for commercial use:
 - IP ownership with industrial partner, restricted to partner's field of main interest: Overhead-Cost of 45%
 - IP ownership with ETH Zürich, industrial partner has an option to an exclusive license against payment: Overhead-Cost 10%, later: acc. to additional license agreement
- Freedom with regard to future collaborations with other third parties.

Eidgenössische Technische Hochschule Zürich Swiss Federal Institute of Technology Zurich

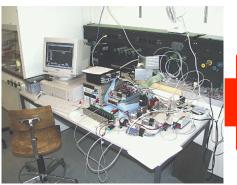


The 3 problems with the IPR owned by universities

- 1. How to avoid missing the big opportunity ?
- 2. So many patents– what now ?

3. Who pays the Bill?





<u>AND:</u>

... it still can take a long time from basic science to products (5 - 40 yrs)

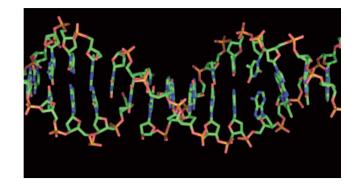






Patenting and Licensing of Intellectual Property

- The Technology Transfer Office supports the researchers with:
 - Evaluation of ETH Zurich inventions
 - Advice on patentability
 - Support with patent applications (incl. funding) and related strategy
 - Technology Marketing (Presentations, Fact Sheets for industry, Fairs, Tech Alerts, etc.)
 - Identification and selection of licensees
 - Negotiation of licensing agreements
 - Controlling and revenue distribution.







SPARK – Award for the best Invention of the Year!





Patent Guidelines at ETH Zurich (1/5)

- ALL inventions / filed patents MUST be communicated to ETH transfer
 - Inventions made at work and at home (if ETH resources were used in between).
- Inventions / Patents must ALWAYS be filed in the name of ETH Zürich
 - Institutes or professors are no legal entities.

Applications are financed 100% by the VP Research

 If ETH Zurich finds the technology interesting, potential licensees and markets are available, and the strategy is aligned with ETH transfer.



Patent Guidelines at ETH Zurich (2/5)

Distribution of revenues

After deduction of all external cost (mainly legal fees):
 1/3 inventor, 1/3 research group, 1/3 global budget ETH Zurich.

Assignment to inventors possible

If ETH Zurich AND the research group have no interest.

Software

- Regulated since Jan. 1st, 2002 (OR).
- Valorization / commercialization analogous to inventions.



Patent Guidelines at ETH Zurich (3/5)

Tasks of the inventors:

- Disclose invention to ETH transfer using the Disclosure Form.
- Perform a preliminary search in patent data bases.
- Prepare "technical part" of the patent.
- DO NOT PUBLISH IN ANY WAY!
- Publication possible immediately after securing IPR.

Role of the technology transfer office

- Clarifies the legal situation (e.g. ownership Contracts with third parties, private inventions).
- Estimates market potential.
- Performs short research in patent data bases.
- Connects to suitable patent attorney.



Patent Guidelines at ETH Zurich (4/5)

Filing Patents at ETH Zurich:

- Decision by ETH transfer in consultancy with inventors, whether and how to file a patent.
- If a patent is filed: administration and costs are dealt with by ETH transfer.
- If ETH transfer decides not to file a patent, the professor may do so at own cost.
- If the professor also declines, rights can be assigned to inventors (as private individuals), if requested.
- If no licensee/buyer is found, patent may be permitted to lapse or will be transferred/assigned to inventors.

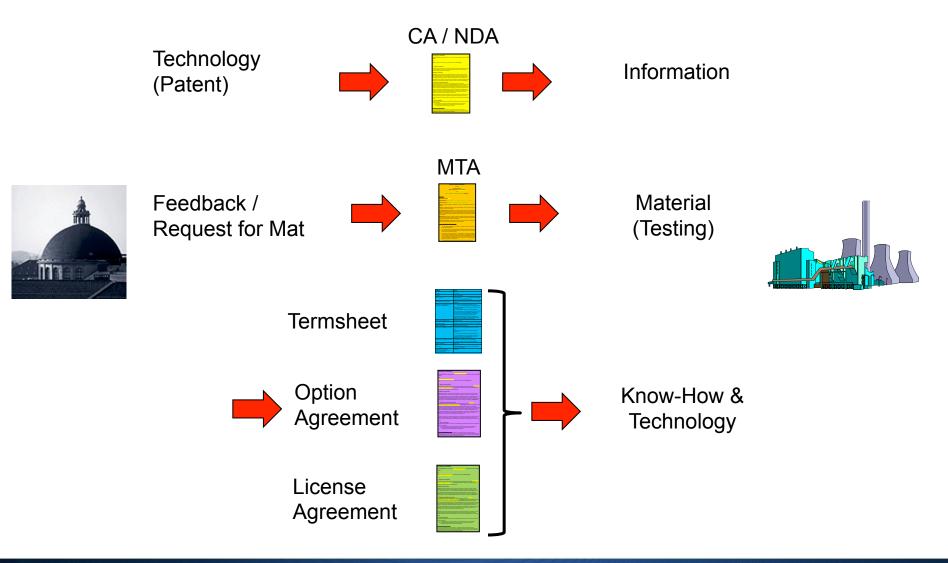


Patent Guidelines at ETH Zurich (5/5)

Filing strategy:

- Primary target: Commercial use
- Basically new technologies
- No small improvements
- No defensive patents
- Support from inventors granted

Licensing process



Spin-Off Definition

Conditions for ETH Spin-Off:

- ETH technology, Know-how or SW
- Founders are ETH students, employees, or alumni

... and

- The business idea and plan are sound and sustainable
- The team demonstrates entrepreneurial skills



A private company of ETH employees or graduates that commercializes products or services based on technologies developed at ETH Zurich



ETH Spin-Off Support Program

- Review of business idea / plan and help with incorporation
- Pioneer's Fellowship
 - "proof of concept" funding for prospective founders
- Licensing of intellectual property (IP): patents, software, know-how, etc.
 - Preferred licensee
- Renting of rooms and infrastructure / ieLab
 - under preferred conditions
 - up to 2 (+1) years (if available)
- Consulting & Coaching
 - Business Plan, Business Management, Sales, Negotiation, etc.
- Label "Spin-off Unternehmen der ETH Zürich"
- Contacts to training, coaching, media, PR, etc.
- Link to seed money, BA's and VC's
 - ✓ Venture Incubator, others

Focusing on developing the entrepreneurial thinking

Focus Project Students







Young Entrepreneurs



 Institutes / Departments
 ieLab
 Technopark etc.

 ETH transfer
 Industry Relation / ETH Zürich Foundation



Proof-of-Concept Funds: The Pioneer Fellowship

- Seed money: CHF 150'000 over 18 months
- Workplace in one of the ieLabs (offices, labs, workshop,...)
- ICT infrastructure and communication tools
- Access to databases
- Coffee corner (microwave kitchen)
- Coaching by successful serial entrepreneurs http://www.systemsx.ch/community/entrepreneur-in-residence-eir/
- Access to all services of ETH transfer
- Use of the ETH network for finding alliance partners
- Use of the ETH Foundation network for finding investors
- Support by the host professor
- Networking events (meet the pioneers, startup-dinner,...)



Locations for Entrepreneurial Spirits - ieLab in action!



Intense coaching by professionals



Close encounter with industry



Lunch Seminars by those who have done it



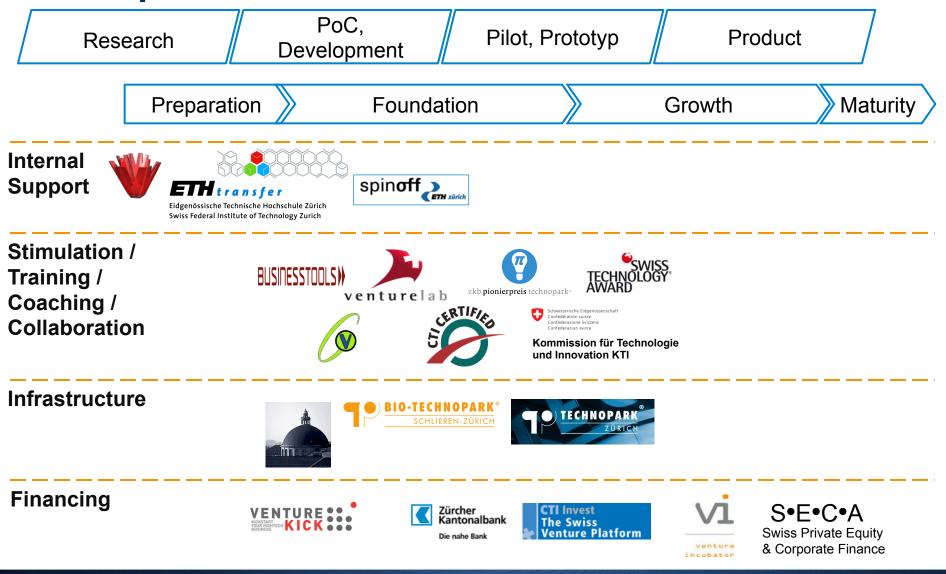
Peer-to-Peer Exchange





Celebration!

The Spin-Off Innovation Value Chain



A word on Conflict of Interest – The Allrounder's curse

- As a professor you may suddenly be wearing several hats:
 - Researcher
 - Coach
 - Responsible for infrastructure
 - Research manager

And perhaps also:

- Consultant
- Founder
- Company owner / Shareholder
- Member of the Board of Directors
- Opinionleader
- Etc.
- That can lead to situations of direct or indirect conflict of interests that can be detrimental to your own image and to the reputation of your institution. It sometimes can also lead to financial damage.



How to avoid Conflict of Interests



Recognize potential conflict of interests

Maximise transparency and lay open any personal interests regarding activities with third parties related to your work at your institution



Observe confidentiality

The correct behaviour and the avoidance of misconduct is very important to avoid the call for more regulation and controlling!

Regulations, Regulations, Regulations ...

- Internal Guidelines:
 - For research collaboration
 - For IPR exploitation
 - For spin-off support
 - For ethical behaviour
 - Etc.
- Legal issues:
 - «I'm using a patented / proprietory technology which i have developed at another institution in the US»
 - «During the work that lead to this invention a master student was involved too …»
 - «Oh, to this software many people actually contributed and we used some open source pieces too …»

We are at your disposal

Please contact us early !

Who is responsible for me?

- ETH Zurich
 => ETH transfer <u>www.transfer.ethz.ch</u>
- University of Zurich, Bern & Basel
 => Unitectra <u>www.unitectra.ch</u>
- EPF Lausanne
 => SRI <u>www.sri.epfl.ch</u>
- University of Fribourg
 => TT-Fribourg www.tt-fr.ch
- University of Geneva
 => Unitec <u>www.unige.ch/unitec/presentation.html</u>
- University of Lausanne
 => PACCT <u>www.pactt.ch</u>
- University of Neuchâtel
 => TTO <u>www2.unine.ch/unine/recherche/tt</u>
- Paul Scherrer Institute
 => TTO www.psi.ch/industry

www.switt.ch	
Anno Anno	wWBaamen bel ant?? Die verstenen die facture für generatiene
	Las energiang un provident de la construction de la
	Welcome to ew/TT The Association of the Swiss Prefeasionals for Academic Technology Transfer
0 IDR orT (Dosson	

Contact Information

ETH transfer

www.transfer.ethz.ch

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