d-475 days
On the way towards the Library of the Rolex Learning Center

David.Aymonin@epfl.ch

This is not an Introduction

EPFL’s Missions
Education – Research – Tech Transfer

A short film « Reception of the new students 2008 »
French + English versions available online
http://ditwww.epfl.ch/cgi-bin/EPFLTV/home.pl?page=video&lang=1&connected=0&id=426&plugin=9&plugin=1&checkplug=1
EPFL is one of the 2 Swiss Federal institutes of Technology, nearby 10 Cantonal Univ.

EPFL, 155 years of engineering

1853 Creation of « l'Ecole spéciale de Lausanne »

1946 - 1968 EPUL Ecole Polytechnique de l'Université de Lausanne

Since 1969 EPFL Ecole Polytechnique Fédérale de Lausanne

from 1978 to 2008, transferred to Ecublens, still growing up

6’500 Students
270 Professors (FTE)
3’500 Staff

Federal money : 450 Mio CHF
Grants and contracts : 140 Mio CHF
Switzerland is a world in itself, EPFL too

One of the world’s most international campuses!
(Times, Higher Education Suppl., 2004)

• 112 nationalities on campus
• 60% of faculty from abroad
• 40% foreign students (MS: 34.5%, PhD: 68%)

Proud to compete well in « the race »

**Academic Ranking of World Universities**

Top 100 world universities in Engineering/technology
and Computer Sciences, 2008

<table>
<thead>
<tr>
<th>Rank</th>
<th>University</th>
<th>Country</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Massachusetts Inst Tech (MIT)</td>
<td>USA</td>
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<tr>
<td>2</td>
<td>Stanford Univ</td>
<td>USA</td>
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<tr>
<td>3</td>
<td>Univ Illinois - Urbana Champaign</td>
<td>USA</td>
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<tr>
<td>4</td>
<td>Univ California - Berkeley</td>
<td>USA</td>
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<td>5</td>
<td>Univ Michigan - Ann Arbor</td>
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<td>6</td>
<td>Univ Texas - Austin</td>
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<td>7</td>
<td>Carnegie Mellon Univ</td>
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<td>8</td>
<td>Georgia Inst Tech</td>
<td>USA</td>
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<td>9</td>
<td>Pennsylvania State Univ - Univ Park</td>
<td>USA</td>
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<td>10</td>
<td>Univ California - San Diego</td>
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<td>11</td>
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<tr>
<td>12</td>
<td>California Inst Tech</td>
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<td>13</td>
<td>Univ California - Santa Barbara</td>
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<td>14</td>
<td>Univ Maryland - Coll Park</td>
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<tr>
<td>15</td>
<td>Univ Cambridge</td>
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<tr>
<td>16</td>
<td>Cornell Univ</td>
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<td>17</td>
<td>Purdue Univ - West Lafayette</td>
<td>USA</td>
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<tr>
<td>18</td>
<td>Swiss Fed Inst Tech - Lausanne</td>
<td>Switzerland</td>
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<tr>
<td>19</td>
<td>Tohoku Univ</td>
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<td>Northwestern Univ</td>
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<td>Univ Toronto</td>
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<td>Imperial Coll London</td>
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<td>31</td>
<td>Univ Minnesota - Twin Cities</td>
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**Top 100 Global Universities, 2006**

1. Harvard University
2. Stanford University
3. Yale University
4. California Institute of Technology
5. University of California at Berkeley
6. University of Cambridge
7. Massachusetts Institute Technology
8. Oxford University
9. University of California at San Francisco
10. Columbia University (New York)
11. University of Michigan at Ann Arbor
12. University of California at Los Angeles
13. Duke University
14. Tokyo University
15. Imperial College London
16. University of Toronto
17. Cornell University
18. University of Chicago
19. Swiss Federal Institute of Technology in Zurich
20. University of Washington at Seattle
21. University of California at San Diego
22. Johns Hopkins University
23. University College London
24. Swiss Federal Institute of Technology in Lausanne
25. University Texas at Austin
26. University of Wisconsin at Madison
27. Kyoto University
28. University of Minnesota Twin Cities

**Newsweek International Edition**

The Top 100 Global Universities, 2006

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**EPFL No. 6 in Europe**

**EPFL No. 2 in Europe**
EPFL’s major project « Campus 2010 »

With the Rolex Learning Center as its heart
How did we get there?
Comment en sommes-nous arrivés là?

The needs of our EPFL community have evolved

- Increase from 2000 → 7000 students
- Ambition: High quality teaching / Cutting edge research
- New goals:
  « make our students the entrepreneurs of their knowledge»
- « focus groups » have revealed the expectations of the EPFL inhabitants:
  - Students and guests housing
  - International conference center
  - A real campus, living 24h/7
  - With a LIBRARY as its heart
Since 1994, Internet has changed our lives ...and also our minds

Googelization is a fact... of generation

Relative value given by academics to scientific sources in order to find a scientific paper

- Search engine as the 1st used tool
- Importance of Expertise, social network

Learning is nowadays « augmented » and « embedded »... thanks to the technology and .... to the teachers too!

Transforming learning experiences

http://www.jisc.ac.uk/eli_learningspaces.html

Indeed, we are now living the Digital age... but it is also analogic!

How many documents can you see?
The Rolex Learning Center is an attempt to create an academic library adapted to these changes.
A concept for the 21st c. Academic Library

All buildings are predictions.

All predictions are wrong

... but it is possible to design buildings

so that it doesn’t matter if you are wrong.

Stewart Brand (cited by Les Watson)

21st Century Library

• A couple of issues for all libraries are how to deal with the legacy of paper based materials in an increasingly electronic world, and how to move the focus to people and learning.
• The Learning Center holds the complete University Library collection ... and provides the full range of Library services.
• ... The bookstock was split into 2 sequences - books that we know are borrowed regularly (about 25% of the stock) and those that are browsed.
• The borrowed stock is available on open shelves ... and the browsed stock is housed in moveable compact shelving.

Les Watson, about the Saltire Caledonian Learning Centre, Glasgow

It is a very complex space

- EPFL Learning Center Architectural program in 2003
- International architecture Competition in 2004

| Personal Work | – Silence & Isolation  
|              | – Interaction & Group  
|              | – Teaching & Learning |
| Personal Development | – Book shop  
| Culture | – History of Science, Ancient books  
| Science Centre | – Exhibitions  
|              | – Conferences & cultural events |
| Comfort and Well-being | – RFID, WiFi, Scan-Print-Copy on-demand  
|              | – Food & Beverages  
|              | – Security & Privacy |
Among 12 projects

...The project offers an interesting prolongation of and analogy with the philosophy adopted during the first stage of the EPFL’s construction: importance of itinerary, movement, interior courtyards with different surroundings, atmospheres, richness of vegetation, uniqueness and unity whilst still creating diversity... The proposed programme offers a new living space, opens up the possibility of new teaching approaches, everything being integrated into one single building as place of assembly and breeding-ground for enriching encounters and synergies...

Sanaa, Tokyo
Kazuyo Sejima
Ryue Nishizawa
Total: 830 public working places

What the Library will be: ground floor

Merging collections, team and services of Central + 9 branch libraries:
- Architecture, Chemistry, Physics 1, Physics 2, Mathematics, Materials, Computer sciences, Pedagoggy, Management

« Bachelor » collection
56’000 vol. in open access

« Research » collection
97’000 vol. in open or controlled access

And of course…
a very large
electronic
collection
What the Library will be: basement

Later Extension
ca 200'000 vol.

Periodicals
Phys 1
Phys 2
BisCom
IC
IMX
CDM

236’000 monographs
Published before 2001
154’000 periodicals

Public compact shelving. Partly locked accordingly to the needs

RFID circulation and security system
Conclusion

<table>
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<th>Library of the RLC</th>
<th>BIOTOPE</th>
<th>FLEXIBLE TANK</th>
<th>SCHOOL</th>
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<tr>
<td><strong>Goals 2010</strong></td>
<td>A place for work and life for students It provides an help for a better success</td>
<td>Organised access to all the information resources in the world With a valorization of the most useful Whatever the media</td>
<td>Transmission of a culture of information i.e. the capacity to - search - criticise - make use - produce information</td>
</tr>
<tr>
<td>Only one library Multifunctional opened 24h/24</td>
<td>Full integration in the numerical environment of the users Information literacy courses at Bachelor &amp; Master levels Stronger than Google \textit{Stand on the shoulders of the Giant}</td>
<td>Information literacy \textit{Integrated in curricula \textit{Flying Librarians}}, in contact with faculty and students, permanent contact with faculty and students, outside the library</td>
<td></td>
</tr>
</tbody>
</table>

See you on the 22nd of Feb. 2010

Danke für Ihre Aufmerksamkeit
Thank you for your attention
http://learningcenter.epfl.ch