Tallinn University of Technology Library

Overview

Jüri Järs
Director
Some milestones

1919 founded as the library of Tallinn Technical College
1937 International Book Exchange,
    Interlibrary Lending
## Some milestones

<table>
<thead>
<tr>
<th>Year</th>
<th>Collections</th>
<th>Patrons</th>
<th>Loans</th>
<th>Staff</th>
</tr>
</thead>
<tbody>
<tr>
<td>1928</td>
<td>5 224</td>
<td>?</td>
<td>?</td>
<td>1</td>
</tr>
<tr>
<td>1937</td>
<td>12 438</td>
<td>297</td>
<td>1 790</td>
<td>2</td>
</tr>
<tr>
<td>1940</td>
<td>20 500</td>
<td>491</td>
<td>3 402</td>
<td>3</td>
</tr>
<tr>
<td>1950</td>
<td>137 487</td>
<td>2 103</td>
<td>36 681</td>
<td>12</td>
</tr>
<tr>
<td>1960</td>
<td>281 139</td>
<td>3 003</td>
<td>56 508</td>
<td>17</td>
</tr>
<tr>
<td>1970</td>
<td>681 472</td>
<td>10 509</td>
<td>370 250</td>
<td>51</td>
</tr>
<tr>
<td>1980</td>
<td>1 040 807</td>
<td>12 482</td>
<td>1 261 062</td>
<td>86</td>
</tr>
<tr>
<td>1988</td>
<td>1 161 661</td>
<td>14 067</td>
<td>1 606 447</td>
<td>91</td>
</tr>
</tbody>
</table>
Some milestones

1959  user training courses for students
1960  bibliography of TUT publications
1966  studies in the field of information needs
1967  legal deposit copy of Estonian publications
1970  first subject librarian hired (graduated from TUT)
1977-1987 using Soviet mainframes in the TUT computing centre
1983  first scientific conference organized
1985  library automation group formed, initial study of IS started
1987  the project of library IS and strategic plan
       first PC training courses for librarians
       first database at the PC of university research department
Some milestones

1990  membership in IATUL
     first PCs in the library
1991  sessions in remote databases with PC and modem
     systematic database generation started
1992  status of Estonian central technical library
     first CD-ROM-databases
1993  first CD-ROM readers
1994  services for end-user: Internet, CD-ROM and local databases
1996  first WWW home page
     all library buildings networked with fiber optics
1997  CD-ROM-databases from server (Logicraft LAN-CD)
Some milestones

1998-1999  EU DEDICATE project: new user training model
1998  online access to journal articles through campus-wide network
1999  data generation using INNOPAC/Millennium started
joint e-catalogue ESTER available for everyone
2000  user training: web-based distance training environment
Web-based information portal “Subject Gates”
2001  Windows-Terminals (Thin-client) implemented in reading room
2002  wireless Internet connection (WiFi) in main library
2002  nominated research library for 5 year period
Nominated research libraries:

- Tartu University Library (2002)
- Tallinn University of Technology Library (2002)
- Academic Library of Tallinn University (2002)
- Estonian University of Life Sciences Library (2004)
- Estonian Academy of Arts Library (2005)
- Estonian Academy of Music and Theatre Library (2005)
Some milestones

2003  EBSCO A-to-Z service for managing e-journals
      software for visits registration and analysis
2004  status of the research and development institution of TUT
      campus-wide access to e-books
      INNOPAC/Millennium Circulation introduced
2005  digital library (open access repository) pilot project started
      scanning and OCR services
      (Book scanner Minolta PS7000 + ABBYY Fine Reader)
      Lib Chat – answering queries in real time
2008  info-screens and video-programmes
      arrangements for relaunching TUT museum
2009  topographical open stack guide
### Statistics 2008-2012

<table>
<thead>
<tr>
<th></th>
<th>2008</th>
<th>2009</th>
<th>2010</th>
<th>2011</th>
<th>2012</th>
</tr>
</thead>
<tbody>
<tr>
<td>Collections (stock units)</td>
<td>723 630</td>
<td>730 659</td>
<td>716 299</td>
<td>705 817</td>
<td>697 666</td>
</tr>
<tr>
<td>Open stacks (volumes)</td>
<td>35 161</td>
<td>191 445</td>
<td>205 968</td>
<td>210 819</td>
<td>209 321</td>
</tr>
<tr>
<td>Received printed books</td>
<td>11 798</td>
<td>24 642*</td>
<td>13 953*</td>
<td>9 083</td>
<td>16 605*</td>
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<tr>
<td>Received printed journals (titles)</td>
<td>560</td>
<td>570</td>
<td>460</td>
<td>378</td>
<td>308</td>
</tr>
<tr>
<td>Access to e-books (titles)</td>
<td>28 000</td>
<td>40 000</td>
<td>60 000</td>
<td>80 000</td>
<td>90 000</td>
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<tr>
<td>Access to e-journals (titles)</td>
<td>37 000</td>
<td>41 000</td>
<td>65 000</td>
<td>65 000</td>
<td>80 000</td>
</tr>
<tr>
<td>Open access digital collection (documents)</td>
<td>305</td>
<td>476</td>
<td>528</td>
<td>631</td>
<td>809</td>
</tr>
<tr>
<td>Searches in e-resources</td>
<td>293 986</td>
<td>475 639</td>
<td>465 654</td>
<td>551 898</td>
<td>809 808</td>
</tr>
<tr>
<td>Downloaded from e-resources</td>
<td>436 788</td>
<td>531 259</td>
<td>503 907</td>
<td>572 193</td>
<td>546 766</td>
</tr>
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</table>

TUT Library Overview, February 2013
<table>
<thead>
<tr>
<th></th>
<th>2008</th>
<th>2009</th>
<th>2010</th>
<th>2011</th>
<th>2012</th>
</tr>
</thead>
<tbody>
<tr>
<td>Patrons</td>
<td>19,315</td>
<td>22,531</td>
<td>25,851</td>
<td>28,547</td>
<td>31,343</td>
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<tr>
<td>including outside TUT</td>
<td>6,122</td>
<td>6,601</td>
<td>9,654</td>
<td>12,376</td>
<td>14,819</td>
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<tr>
<td>their percentage</td>
<td>32%</td>
<td>30%</td>
<td>37%</td>
<td>43%</td>
<td>47%</td>
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<tr>
<td>Visits</td>
<td>246,529</td>
<td>220,823</td>
<td>281,371</td>
<td>283,501</td>
<td>265,728</td>
</tr>
<tr>
<td>Loans</td>
<td>1,451,048</td>
<td>1,117,319</td>
<td>1,374,992</td>
<td>1,211,960</td>
<td>1,193,597</td>
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<tr>
<td>including: home loans</td>
<td>112,159</td>
<td>121,193</td>
<td>200,620</td>
<td>226,900</td>
<td>216,264</td>
</tr>
<tr>
<td></td>
<td>2008</td>
<td>2009</td>
<td>2010</td>
<td>2011</td>
<td>2012</td>
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<td>----------</td>
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<tr>
<td>Acquisition budget</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(thousands €)</td>
<td>907,6</td>
<td>690,3</td>
<td>773,3</td>
<td>880,3</td>
<td>916,7</td>
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<tr>
<td>Acquisition budget</td>
<td>70</td>
<td>51</td>
<td>55</td>
<td>61</td>
<td>67</td>
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<tr>
<td>per student (€)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Library staff (FTE)</td>
<td>73,5</td>
<td>74,5</td>
<td>74,0</td>
<td>72,25</td>
<td>69,0</td>
</tr>
<tr>
<td>Total staff, incl. museum</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>and publishing office</td>
<td>81,25</td>
<td>83,75</td>
<td>82,75</td>
<td>81,0</td>
<td></td>
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<tr>
<td>Year</td>
<td>Budget (EUR)</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>2001</td>
<td>320,000</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2002</td>
<td>345,000</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2003</td>
<td>530,000</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>2004</td>
<td>601,000</td>
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<tr>
<td>2005</td>
<td>677,000</td>
<td></td>
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<td></td>
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<tr>
<td>2006</td>
<td>754,000</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>2007</td>
<td>890,000</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>2008</td>
<td>908,000</td>
<td></td>
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<tr>
<td>2009</td>
<td>690,000</td>
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<tr>
<td>2010</td>
<td>773,000</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>2011</td>
<td>880,000</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2012</td>
<td>916,000</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2013</td>
<td>about 950,000 expected</td>
<td></td>
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</tr>
</tbody>
</table>

Joint supply of e-resources through ELNET Consortium  
2009-2012 in total about 2 million EUR per year
• Library staff – 69 FTE (71 persons)

• Library as the research & development institution of TUT total staff – 81 FTE (85 persons)

  incl. publishing office – 8
  museum – 4
  operations, transport etc – 2
  bindery – 2
The structure of the library

TUT Publishing Office (8,0)
TUT Museum (4,0)

Administration (3,0)
Acquisition Department (6,75)
Cataloguing Department (11,5)
Library Services Department (19,5)
Information Services Department (9,0)
Department of Bibliography (6,25)

Research & Development Division (3,0)
Information Technology Division (6,0)
Operations Division (2,0)
Bindery (2,0)
Main topics studied:

The efficiency of library and information services
- Information needs and information-seeking behaviour
- Optimization of services, collections and work-flow
- Efficiency of expenditures using DEA (Data Envelopment Analysis)
- Integrated information system and e-library, including working out special software applications
- Web-based information literacy courses
- Internal and external communication
- Organization culture using OCAI (Organization Culture Assessment Instrument)
Research & development activities

The history of engineering education and the role of engineers in creating Estonian Republic
The history of TUT

Compiling bibliography of TUT publications
Compiling retrospective bibliography of Estonian technical articles 1919-1944
Compiling current bibliography of Estonian articles in the field of engineering and technology

No special funding for research & development activities
About 25 persons participating, including:
  1 doctor
  4 in doctoral studies
Subject librarians serve as contact persons between the library and the faculty. They are:
- providing information about electronic and printed resources
- recommending book or journal titles for purchase
- giving consultations about using e-catalogue ESTER, databases and library services
- organizing information skills courses for students
- preparing tutorials on information retrieval
- organizing book exhibitions
Subject librarians: responsibility by the contents

Liidia Šeina - Faculty of Civil Engineering, Institute of Geology, Tartu College

Maie Pihlakas - Faculty of Chemical and Materials Technology, Gene Technology, Chemistry

Küllike Märtmaa - Faculty of Information Technology, Faculty of Social Sciences (except Law)

Marje Võrk - School of Economics and Business Administration

Katri Mägi - Faculty of Science (except Gene Technology and Chemistry), Technomedicum, Institute of Marine Systems

Alla Žukova - Faculty of Mechanical Engineering, Faculty of Power Engineering, Virumaa College

Mare Soidla - Law School
b-learning and e-learning IL courses

- blended IL course „Generic information skills“ for 1st year students embedded into academic curricula as part of the obligatory course „Organization of studies“, gives 1,0 credits. 1400-1600 students pass the course every year.

- e-learning IL course „Specialized information retrieval“ for bachelor and master degree students in Chemistry and Materials Technology in Moodle e-learning platform. Courses included into curricula, both give 4,0 credits.
Traditional IL courses

- face-to-face IL courses „Specialized information retrieval“ for doctoral degree students in Economics, Mechanics, Humanities

- courses „Information sources and information retrieval“ for bachelor and master degree students in co-operation with faculties

- courses „Generic information search skills“ for foreign students

The content of the IL courses is prepared by our subject librarians
ELNET Consortium (Estonian Libraries Network Consortium) is a non-profit organisation representing the common public interests of libraries.

The main areas of activity are management and development of the:
- shared online catalogue ESTER
- database of Estonian articles ISE (Index Scriptorum Estoniae)
- integrated library system Millennium
- Estonian Subject Thesaurus (about 50,000 terms)
- joint supply of e-resources for member libraries
- initiation and coordination of various cooperation projects
ELNET Consortium

General Meeting
Management Board
Executive Director

Working Groups:
- Library System Administrators Board
- Working Group on Cataloguing and Name Authorities
- Working Group on Classification and Indexing
- Working Group on Coordinating the Microfilming and Digitizing Activities
- Working Group on Database of Estonian articles (ISE)
- Working Group on Library Services
- Working Group on Licensing of e-resources

Round Table of e-books
ELNET Consortium member libraries (14):

- Tartu University Library
- Tallinn University of Technology Library
- Academic Library of Tallinn University
- Estonian University of Life Sciences Library
- Estonian Academy of Arts Library
- Estonian Academy of Music and Theatre Library
- National Library of Estonia
- Archive Library of Estonian Literary Museum
- Repository Library of Estonia
- Library of the Estonian National Museum
- Library of the Art Museum of Estonia
- Tallinn University of Applied Sciences Library
- Tallinn Central Library
- Tartu Public Library
ELA (Estonian Librarian’s Association)

Sections of:
- special libraries
- school libraries
- county and village libraries

Committees of:
- collections development
- education and training
- services for children
- subject indexing
- terminology
- old books and rarities
Cooperation

ELA Working Groups of:
- local studies bibliography
- public libraries acquisition

• EKS-Klubi (Seniors Club)
• ELA regional societies in counties and cities (Tartu, Võru, Pärnu etc.)

Council of the Research Libraries
at the Ministry of Education and Research
IATUL (International Association of Scientific and Technological Libraries)
• SIG LOQUM (Special Interest Group on Library Organization and Quality Management)

UNICA (Network of the Universities of the Capitals of Europe)
• Working Group of Scholarly Communication
International Cooperation

BALTECH Consortium

Seminars on:
- e-resources and e-services (Tallinn 2010)
- academic publishing and bibliometrics (Riga 2011)

IUG (Innovative Users Group, USA) and Nordic IUG

Biblioteca Baltica (Libraries of the Baltic Sea Region Heritage)

Consortium of Legal Resource Centers and Legal Information Specialists
- WestLaw International
- Hein Online databases
New building: history

1999  Expertise of the main library building (built in 1971)
1999/2000  - renovation projects (about 1,1 mln EUR)
2000  about 50 meetings:
-  the concept of the new building
-  calculations for open access area, closed access area,
  shelving capacity, reader seats, staff area etc

2005  Draft project for extension and rebuilding
  4 levels  4 x 1 650m², total: 6 600m²

As this part of campus buildings is under preservation –
no permission to realize this project

2005/2006  discussions with TUT administration
  and architects
2006 February – TUT council decided to organize competition for getting the architectural conceptual design for new library building

2006 May – the competition was announced
   10 participants

2006 July – the best solution was selected by the jury
   the winner - Architectural bureau: "Agabus, Endjärv & Truverk Arhitektid OÜ" - “AJUPUU”

2006 October - 2007 October: project design, construction drawings

Architects: Eero Endjärv, Priit Pent, Illimar Truverk, Mattias Agabus

Interior design: Hannelore Kääramees, Kristi Lents
Aims of the new building

- Modernising the overall environment
- Optimizing patron services and library workflow
- Assembling the library from 8 different locations into one building
- More holdings in open stacks (+ 260 000 volumes)
- More reader seats (+ 300)
- More computers (+ 80)
- Creating the environment for groupworking, individual learning, self-services and user training
- Improving access for users with disabilities
- Modernising ICT facilities
- Creating the high quality exhibition space
- Improving working conditions for staff
Main conception

- one open access area (which extends through four floors) where everything (collections, workplaces, computers, self-service equipment, consultancy etc) is available for the reader

- no walls, no separated reading rooms

- extensive traffic is concentrated into the central part of the building, silent workplaces are located at the border areas

- special materials and construction elements are used for reducing the noise and bright sunlight
2007 October – public procurement for getting the constructor was announced
- 8 tenders for getting the contract

The best tender - AS Oma Ehitaja
2008 February - 2009 June: construction period

2009 June – library started to move into new building
2009 September – library was opened for the readers
2009 November – removing was completed
About the building (1)

- The building has 6 levels
- The facade is covered with technical textile which reduces the bright sunlight and also serves as decorative element

- Total area (brutto) – 12 700 m²
- Useful area – 10 640 m²
- Capacity – 49 000 m³
- Costs:
  - Building about 10,2 mln EUR
  - Furniture and equipment about 2,5 mln EUR
- Financed by EU and TUT
• In addition to the library:
  – museum
  – publishing office
  – bindery
  – cafeteria
  – wardrobe
  – part of Technomedicum
  – car-parking area
Total gross floor area – 7 200 m²

Total capacity of shelving - 820 000 vol.
- in open access storage – 300 000 vol.
- in closed stacks – 520 000 vol.
  traditional storage – 200 000 vol. (550 m²)
  compact storage – 300 000 vol. (520 m²)
  archive storage – 20 000 vol. (50 m²)
About the library (2)

• Number of reader seats – 500
• Number of seats with computer – 100
• Number of info-kiosks – 16
• WiFi connection available everywhere

• Groupworking rooms – 6
• Individual cabins – 26
• Computer class (22 seats)
• Training room (16 + 14 seats)
• Exhibition area in galleries and in TUT main building
• Info-screens – 8
• Self-services:
  – check-out equipment – 2
  – check-in equipment – 1
  – printers/copy-machines – 4
  – scanning workstations – 4

• Open access area – 4 580 m²
• Storage area – 1 160 m²
• Staff area – 740 m²
• Other – 720 m²
## Comparing with old library

<table>
<thead>
<tr>
<th></th>
<th>in old library</th>
<th>in new building</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total area</td>
<td>3 700 m² (in 7 locations)</td>
<td>7 200 m²</td>
</tr>
<tr>
<td>Readers area</td>
<td>1 100 m²</td>
<td>4 580 m²</td>
</tr>
<tr>
<td>Staff area</td>
<td>1 000 m²</td>
<td>1 460 m²</td>
</tr>
<tr>
<td>Storage area</td>
<td>2 200 m²</td>
<td>1 160 m²</td>
</tr>
<tr>
<td>Open stacks</td>
<td>40 000 vol.</td>
<td>230 000 (300 000) vol.</td>
</tr>
<tr>
<td>Reader seats</td>
<td>200</td>
<td>500</td>
</tr>
<tr>
<td>Seats with computer</td>
<td>40</td>
<td>100</td>
</tr>
</tbody>
</table>

... and many more ...
Print-on-Demand equipment

Technology: laser-electrostatic transfer system
Workflow management and cost control software
Automatic color density calibration
High flexibility, offset print quality

- black and white production line (100 pages per minute)
- color production line (50 pages per minute)
Integrated Servers and Mass Memory
(Virtual Machine + Data Warehouse)

- 3 servers – 1 x Xeon 4Core 2,26 GHz, 6 x 4 GB ECC DDR3 1,33 MHz
- Virtualization Software - Academic VMware vSphere 4
- Hard Disk Drives – 18 x 300 GB (15 000 rpm), 18 x 1 TB (7 200 rpm)
- Backup server – EMC Avamar certificated configuration
- Climate monitoring system
TUT Library is open for everyone

Per libros ad scientiam