A microscopic view of a mechanical part, possibly a turbine or engine component, with a green laser line illuminating it. The background is dark blue with concentric circular patterns.

School of Engineering

Béatrice MARSELLI & Pascale BOUTON

Annual Report

16

BIBLIO
THÈQUE


ÉCOLE POLYTECHNIQUE
FÉDÉRALE DE LAUSANNE

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Introduction

This annual report gives an overview of the activities and services provided to the EPFL School of Engineering (STI) members and students by the library in 2016. This report focuses particularly on key figures, on support services dedicated to training, Open Access (Gold, Green) publications, and on collections and budget. The two previous issues are available on Infoscience. Starting 2017, Béatrice Marselli will be the only liaison librarian for the whole STI. Pascale Bouton, former liaison librarian for Mechanical engineering, Electrical engineering, and Bioengineering, switched to a new position within the Library. She is now responsible of the service dedicated to the access & development of collections.

This activity report is specific to the school of engineering liaison. The 2016 Global Activity Report of the Library will be available on the Library website.

Practical information

EPFL Library / Bibliothèque de l'EPFL
 Rolex Learning Center
 Station 20
 CH-1015 Lausanne
library.epfl.ch
questions.bib@epfl.ch
 +41 21 693 21 56

Visit the Library: <http://rolexlearningcenter.epfl.ch/acces>
 Opening hours: 7 / 7, 7h-24h
 Library services: Mon-Fri / lu-ve, 8h-20h

Credits

Cover - CC BY-SA Psc projet scientifique collectif by Ecole polytechnique Paris / P.07 – Natalie Bireima / P.16 – Alain Herzog

2016 Key Figures

Engineering



Infoscience

116 Research units

40631 References [+2309 in 2016]

33% Fulltexts



Information Literacy

16 Trainings offered

45 STI participants



Research Support Services

14 Trainings

29 OA papers financially supported



Acquisitions budget

16,005 CHF Print

114,020 CHF @



Electronic Collections

70,000+ ebooks

4,000+ e-journals



Print Collections

13,000+ Titles

6,000+ Loans

2016 Key facts

Noon talks

With the Noon Talks, the Library team offers a new meeting targeting particularly researchers and PhDs in order to share and discover informally (lunchtime) new research practices around. The first session took place at the Library and was dedicated to collaborative writing. Prof. Pierre Vanderghenst gave his feedback as a user of collaborative tools [Authorea, ShareLaTeX and Jupyter]. The presentation was followed by an open discussion. 28 STI members have participated to the first event.

OA funds

Since the beginning of 2016, in the frame of the Open Access support project, EPFL authors are able to benefit from a financial support from the Library to publish under this model [http://library.epfl.ch/OA_Support/en]. The financial support includes different options that are described in details later in the report.

Meeting of the Library Commission [COB]

In 2016, the Library Commission met once on December 7. Dr. Matteo Galli (IGM) and Dr. Yves Leterrier (IMX) attended this session, in which different topics were addressed. In particular, the new organization of the Library, the budget and the collections [subscription campaign, renewal of journal bundles licenses, reorganization of collections at the library's basement], some provided services such as trainings and OA support, and national projects related to scientific information [Swiss National Open Access Strategy and the Swiss Library Service Platform].

Communications Library-STI

A Twitter account @EPFBIB_STI has been created in order to provide the EPFL STI community with Library's news regarding the School of Engineering collections, publications issues. Join us!

Two issues [#4 and #5] of the "Library Newsletter – STI School of Engineering" were spread to the STI community in May and November, respectively. The newsletter is designed to give an overview of which Library's news and services are useful for the STI community.

The discipline specific webpages is constantly providing suitable information STI students and researchers with an increased visibility to their dedicated services: <http://library.epfl.ch/engineering/en>. These pages also display the new resources [eBook, e-journals, and databases].

Services to students

Teaching Support: Induction sessions and Information Literacy Training

PhD Seminar

In 2016, two new modules were added to the PhD Seminar training session “From research to publication” (<http://library.epfl.ch/cms/site/library3/lang/fr/training-phd/en>): module 3 on Smart Publishing and module 4 on Research Data.

This training cycle “From research to publication” aims to help young researchers to perform master advanced searching in specialized resources, to understand the process of scientific publishing and reuse articles in their thesis without the risk of plagiarism.

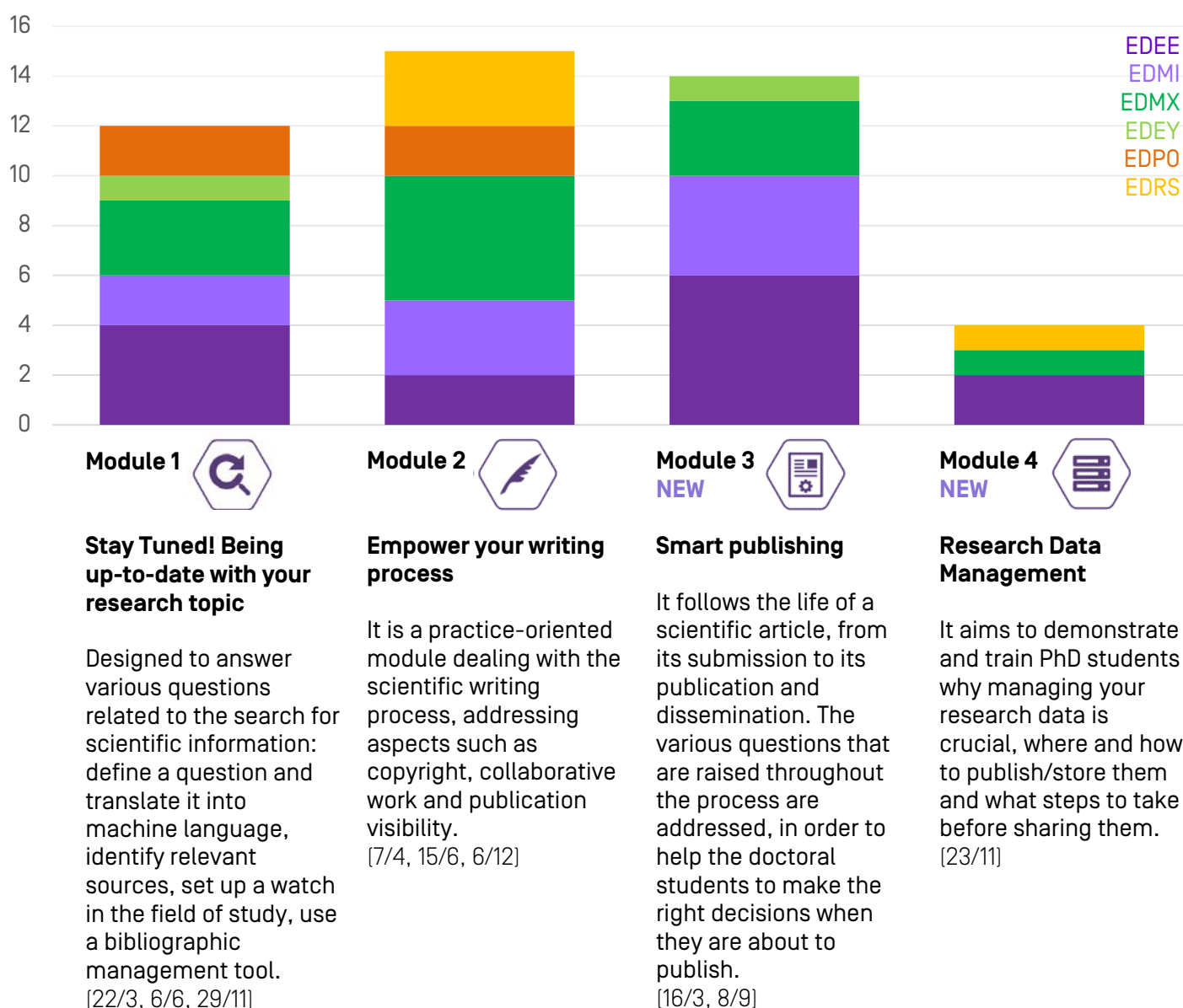


Figure 1 - STI participants to PhD modules vs doctoral school

Ten half-day sessions have been held this year with the participation of 45 STI PhD students. The Figure 1 presents the proportion of STI PhD students according to their doctoral school program.

Individual training sessions

Seven PhD students also asked for a 1to1 session, to receive personal assistance and advices about citation, reuse of thesis content, bibliometrics, and collaborative writing and bibliography manager tools. Since an increasing number of queries about the bibliography manager tool Zotero have been received, the Library has set up a dedicated workshop “Dr Zotero” addressing issues with this tool. Details can be found on <http://library.epfl.ch/doctor-zotero/en>.

Welcome week

The Library was an active player during the EPFL Welcome Week [September 13-16], with different activities for international students as well as other new students such as information sessions, information stands, guided tours, treasure hunts.

On September 16, dedicated information sessions presenting the Library's services, the useful resources and the Library's website have been presented to the 1st year Bachelor students as well as new Master students from the STI School. Four presentations were made to STI master and bachelor students by the two STI liaison librarians. Another presentation to the 1st year bachelor students from the Microengineering section (IMT) was organized later (October 3). The table 1 presents the numbers of students attending these presentations.

	# of BSc students	# of MSc students
Mechanical Engineering	290	-
Electrical Engineering	35	35
Materials Science & Engineering	44	-
Microengineering	30	-

Table 1 - BSc and MSc students' attendance during the Welcome Day

Global Issues project

For the third consecutive year, the Library took part to 9 Global Issues courses giving support to first year bachelor students. Sessions aimed to raise the students' awareness on key issues such as diversity in information sources and search, images rights, and good practices for citations.

Classroom specific training sessions

As usual, STI teachers who wish their students to discover the dedicated scientific resources and to be trained in documentary research methods can ask for support from teaching librarians. 172 STI bachelor participants to classroom sessions. Issues regarding citation, and plagiarism were also addressed. Three sessions were organized for bachelor and master students, both in SMX and SGM.

Course	Professor	Institute	Students level	Students number
Technologie et pratique des matériaux [MSE-103]	P.-E. Bourban	IMX	BSc	47
Mechanical Design Principles [ME-211]	J. Paik	IGM	BSc	80
Numerical flow simulation [ME-474]	M. Sawley	IGM	MSc	45

Table 2 - Number of students attending classroom specific training sessions

Teaching Collection Development

The teaching collection gathers the books recommended by professors as a support to their courses [Bachelor and Master cycles]. These documents are available in several copies, generally five for bachelors and three for masters (one copy remains excluded from loan) and are easily accessible at the library entrance with call numbers starting with [07]. Numerous electronic resources are also available for students including electronic textbooks and databases. The resources can then be accessed through the course description (on IS-Academia) and the library catalogue BEAST (<http://library.epfl.ch/beast>).

Liaison librarians consider every suggestion for purchase for the teaching collection and buy every new document recommended by STI professors (through IS-Academia) as far as possible.



Services to research units

Presentation of research support services within STI institutes

In 2016, three presentations have been held to STI professors and researchers in order to give a full overview of the Library's service dedicated to research support (Infoscience, Support for Gold and Green Open Access, Copyright, Research data and Data Management Plan).

15/02 IMT - College of Professors

10/03 IGM - Faculty Meeting

14/10 IMX-Faculty Meeting

ERC Start-to Run workshops

Since November 2016, the library is also involved in the workshops organized by the Research Office for the researchers awarded with an ERC grant to inform about the obligations related to Open Access to publications and research data. Two STI projects already participated to this workshop:

01/11 GlobalBioIm Project (IMT)

02/12 VIBRANT-BIO Project (IBI-STI)

Infoscience

The Library supports the STI community for the management of the publications (unit's creation, units' archiving, importation and validation of bibliographic references, and deletion of duplicates or inaccurate references, etc.) in the EPFL institutional repository [Infoscience](#).

Liaison librarians regularly offer presentations of the repository and its features: eight STI labs attended these sessions in 2016.

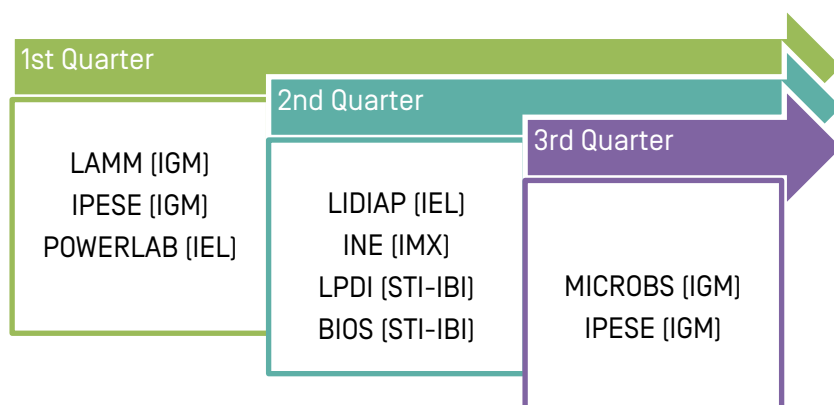


Figure 2 - Presentation of Infoscience to STI units

Before or at the arrival of a new professor at EPFL, librarians are assisting for the creation of the entity in Infoscience and the importation of previous publications. 11 units have been created for STI in 2016.

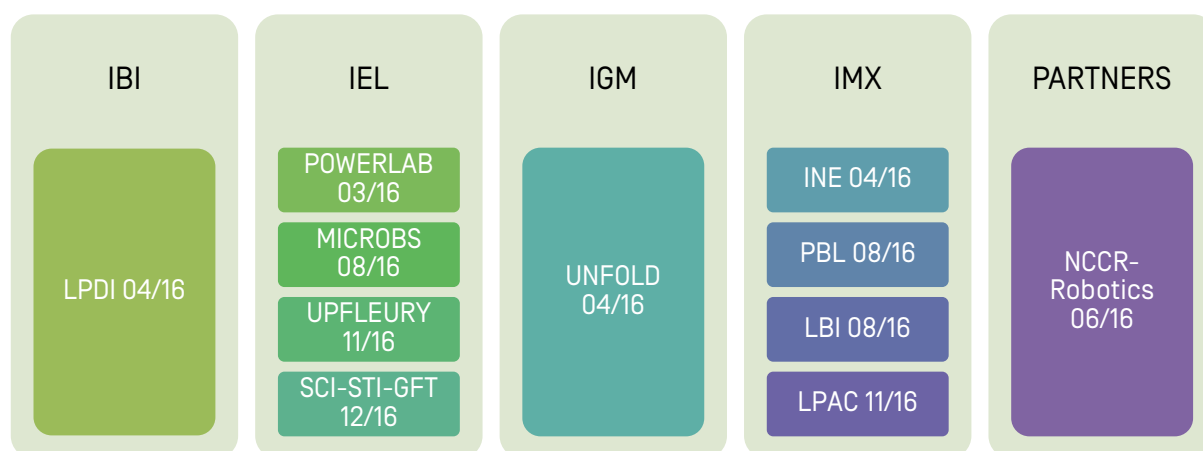


Figure 3 - Creation of units in Infoscience – STI Institutes

Based on the concept of Green Open Access and the maximum dissemination of research outputs, researchers are encouraged to add, when allowed by the publisher and with respect of embargo periods, a full-text version to Infoscience, the institutional repository at EPFL.

Institute	# of active units	# of archived units	# of total references	# total of references published in 2016	# total of references added in 2016	# of fulltexts	% of fulltexts
IMT	27	4	11899 [\nearrow 4%]	357	441	3261 [\nearrow 5%]	27.4
IMX	23	4	4983 [\nearrow 4%]	196	293	795 [\nearrow 7%]	16
IEL	24	6	13780 [\nearrow 11%]	631	676	6267 [\nearrow 16%]	45.5
IGM	18	8	6240 [\nearrow 4%]	271	383	1876 [\nearrow 13%]	30.1
IBI	15	0	2499 [\nearrow 39%]	169	254	824 [\nearrow 28%]	33
Others*	9	0	1061 [n/a]	77	192	333 [n/a]	31.4
Unattributed STI**	0	0	169	61	70	55	32.5
Total	116	22	40631 [\nearrow 6.1%]	1762	2309	13411 [\nearrow 3.2%]	33

Table 3 - Number of references as well as the full texts for each STI institute (corresponds to * non-academic/partners units, and **references not linked to any institutes)

Table 3 presents an overview of STI publications within Infoscience (number of references as well as the full texts for each STI institute - see in the appendix section for breakdown by labs).

Open Access Support

The financial support of OA publications for EPFL authors includes different options described below (http://library.epfl.ch/OA_Support/en):

Open Access Funds: EPFL authors may obtain a contribution (2/3 of the article processing charges - APC) with a maximum contribution of CHF 2,500 per publication from the Library, on "a first come, first served" basis, to support Open Access publication fees provided that the article is published in a full Gold OA journal (no hybrid publication). For quality purpose, the journal is listed in the DOAJ (Directory of Open Access Journals) or OASPA (Open Access Scholarly Publishers Association) and authors with funding specifically designated to cover Gold OA publication fees (grants, contracts, etc.) use those funds first.

Specific Agreement with publishers: the Library has negotiated specific agreements with some publishers. Full APC fundings with journals at PLoS (Public Library of Science) or participating in SCOAP3 program and applied discount on APC for both hybrid and Gold Open Access publications.

Publishers	Journals	Discount on APC
BMC / Springer Open	All	20%
MDPI	All	10%
AAAS	Science Advances	10%
ACS	All	\$1000
F1000Research	F1000Research	10%
National Academy of Sciences	PNAS	\$350
Mary Ann Liebert	All	\$1000

Table 4 - Discounts on APCs for EPFL authors

Moreover, the Library participated* to the "Gold for Gold Program" from the Royal Society of Chemistry (RSC) that consists to use vouchers to make article OA in all RSC journals [*ended in December 2016].

Institute	BMC membership	MDPI membership	PLoS Deposit Account	RSC	OA Funds
IMT	2	1	2	2	4
IMX	1	1	0	0	3
IEL	1	2	0	0	2
IGM	0	1	0	0	3
IBI	1	2	0	0	1
Total	5	7	2	2	13

Table 5 - Numbers of articles published in the frame of the OA support project by STI institutes

Based on the Web of Science, lists of the 10 most popular journals where the STI community published in 2016 has been established for each institutes; these include some Gold Open Access titles.










IG	<ul style="list-style-type: none"> - Journal of Fluid Mechanics - Acta Materialia - International Journal of Refrigeration-<i>Revue Internationale du Froid</i> - Applied Thermal Engineering - International Journal of Heat and Mass Transfer - Journal of the Mechanics and Physics of Solids - Applied Energy - Automatica - International Journal of Thermal Sciences - Modelling and Simulation in Materials Science and Engineering 	
IBI	<ul style="list-style-type: none">  - Scientific Reports  - Journal of Neuroengineering and Rehabilitation  - PLoS One - Annals of Biomedical Engineering - Chemical Reviews - Computer Methods in Biomechanics and Biomedical Engineering - European Journal of Applied Physiology - IEEE Transactions on Neural Systems and Rehabilitation Engineering - Journal of Arthroplast - Journal of Biomechanics 	
IMT	<ul style="list-style-type: none"> - Optics Express - Lab on a Chip  - Biomedical Optics Express - IEEE Journal of Photovoltaics - IEEE transactions on image processing - Nano Letters - Nanoscale  - Scientific Reports - Sensors - Advanced Materials 	
IEL	<ul style="list-style-type: none">  - IEEE Transactions on Electron Devices  - Nature Communications - IEEE Transactions on Signal Processing - Optics Express - Physiological Measurement - Applied Physics Letters - Electric Power Systems Research - IEEE Journal of Selected Topics in Signal Processing - IEEE Transactions on Electromagnetic Compatibility - IEEE Transactions on Image Processing 	<ul style="list-style-type: none"> - Acta Materialia - Nano Letters  - Nature Communications - Cement and Concrete Research - Physical Review B - Applied Physics Letters - Journal of Chemical Physics  - RSC Advances - ACS Applied Materials & Interfaces - Current Opinion in Solid State & Materials Science

Table 6 - Most popular journals where the each STI institutes published in 2016

Research Data Management Support

The EPFL library provides a support service to its research community for the management of their research data. The service, set up in 2015 and operated in collaboration with the VPSI and the Research Office, has been consolidated and widened in 2016.

Four STI laboratories (IEL-REACT, IMX-THEOS, IMX-LMGN, and IGM-RRRL) have benefited from the following services in 2016:

- Basic information on research data management (purpose, usefulness, stakes...);
- Assistance in setting up a Data Management Plan (meeting with the Principal Investigator and the project team, advice on the writing of a data management section in a grant proposal, assistance and feed-back on DMP);
- Expertise in terms of metadata, storage and LT preservation;
- Advice and guidance on funders and publishers policies as far as the management and sharing of data are concerned.

The library also puts forward several training sessions about research data:

- An introduction to research data management provided within the SFP service [<http://go.epfl.ch/aty>]: 16 STI members participated in the trainings offered by EPFL Library and the Staff Training Service, in May, October and December 2016, and 37 members took part to the DMP-EPFL Fellows events in October and November 2016.
- Workshop for researchers (post-doctoral researchers) within the EPFL Fellows program [<http://research-office.epfl.ch/EPFLFellowsMarieCurie>] on October 25. Amongst all the participants, they were 15 STI members.

Documentary resources for STI researchers

In the same way as for the teaching collection, liaison librarians consider every purchase suggested by the STI community as far as possible. New subscriptions or cancellations of existing subscriptions are annually discussed in September between COB representatives and the liaison librarian.

New subscriptions start only at the beginning of the next year. In the case of urgent needs, it is always possible to contact the [inter-library loan service \(ILL\)](#) at the Library.

“Café Littéraire” CBIMX

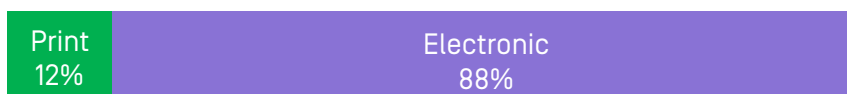
As every year, the CBIMX (IMX Library Committee made up of the liaison librarian as well as members from the IMX institute) met in November 2016 during the “Café Littéraire”. Present people have made a selection of new titles from publishers' catalogues and several topics relating to research support were discussed.

STI Collections at the Library

Budget for STI collections

Totals of **114,020** and **16,005** CHF were spent for **electronic** and **print** resources, respectively, for STI in 2016 with an important portion dedicated to electronic resources (88%). Regarding electronic resources, the amount of 10,537 CHF were dedicated to ebooks' single titles, 934CHF to a reference work and 102,549 CHF to ebooks collections.

It is important to note that the STI electronic budget is only dedicated to purchases while journal bundles and database subscriptions expenditures are centralized within the library and charged on the global library budget.



STI Collections

Library's new acquisitions are made at users' request or on librarians' initiative. STI liaison librarians received 58 purchase proposals from users in 2016 (22 for electronic and 36 for print resources). Amongst these titles, 1 reference book has been included in the STI collection: Encyclopedia of Aerospace Engineering.

7 ebook packages were acquired in 2016: Springer Engineering 2017, Springer Energy 2017, Springer Chemistry & Materials Sciences 2017, World Scientific Engineering 2016, World Scientific Chemistry, Materials Science & Nanotechnology 2016, IEEE-Wiley Frontlist 2017, and IET Frontlist 2016.

	# of titles	Co-funding
Springer Energy 2016	138	
Springer Engineering 2016	959	
Springer Chemistry & Materials Science	358	SB [CHIM]
IET Frontlist 2016	35	IC
IEEE-Wiley Frontlist 2017	40	IC + SV
World Scientific Engineering 2016	30	
World Scientific Chemistry, Materials Science & Nanotechnology 2016	40	SB [CHIM]

Table 6 - Ebooks packages purchased in 2016

It complements the actual collection of STI books:

Library location	Number of books	Number of loans
Teaching collection	1835	2392
Sciences et Techniques	2655	2840
Sciences et Société	371	290
Sous-sol/basement	8523	509
Total	13384	6031

Table 7 - Number of STI books and loans for the STI collection in 2016

They can be found in several locations in the library: in the Teaching Collection for bachelor and master students, in the “Sciences et Techniques” area dedicated to research and the “Sciences et Société” section for a general audience, and less borrowed books are located in the “Sous-sol”/basement of the library.

During this year, the collections in the basement have been redesigned to improve the accessibility of self-service documents with simpler notifications and locations. New labels make it easier to identify the various sections in the basement: zone A - E. Documents identified in Beast catalogue are simple to pinpoint, using call number and bookshelf number. Books and periodicals located in the basement have been reorganized thematically for a better coherence and new spaces have also been allotted for the future increase of collections. An updated map is [available](#) at the Library.

Theses conservation and diffusion

Within its official mission as copyright depositor of EPFL PhD theses, the Library is responsible for their preservation and distribution. 140 theses defended in 2016 within STI have been added into Infoscience and are [available online](#) through the catalog of the Library.

Journals

More than 4000 electronic journals (subscribed and open access STI journals) are available at the library and accessible through the library catalog BEAST or directly by subject through the following link: http://sfx.ethz.ch/sfx_epf/az?param_perform_value=searchCategories

Upon request of two labs in STI, 2 new titles were subscribed this year: *Nature Reviews Materials* and *Advanced Optical Technologies*. The *Journal of Aircraft*, *AIAA* [Journal and Meeting Papers], and *Nature Energy* are new titles interesting for the STI community.

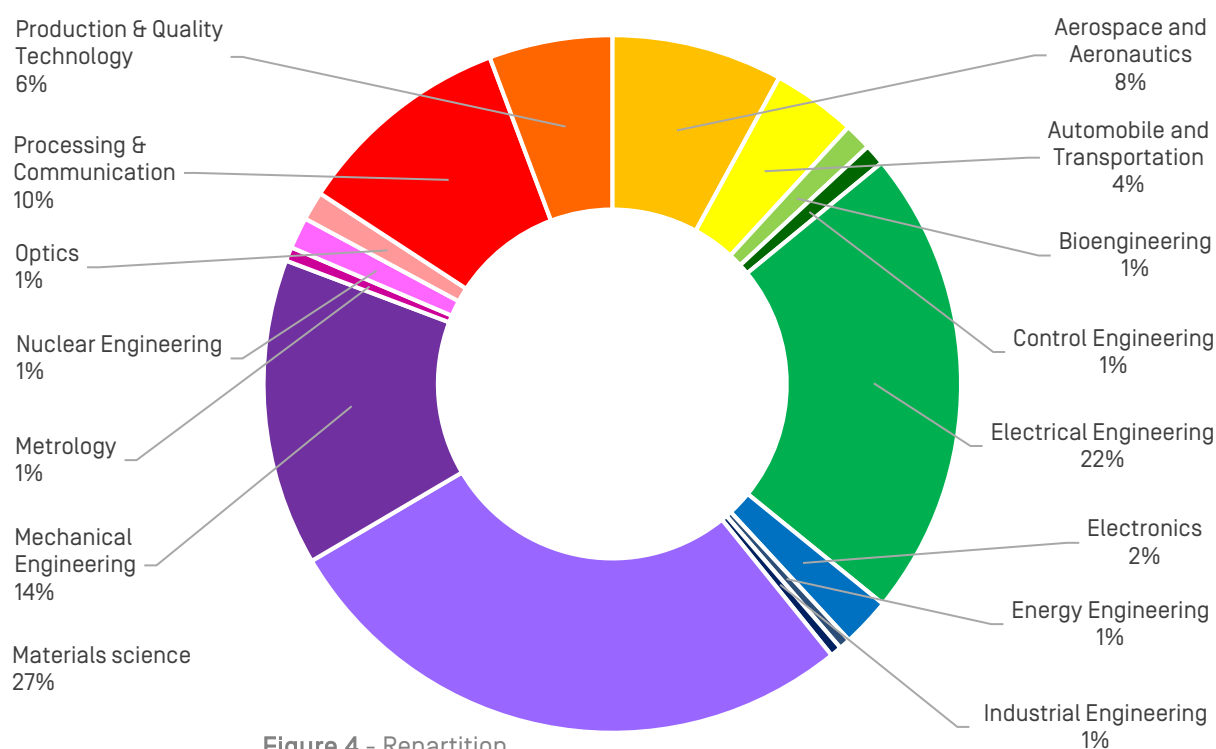


Figure 4 - Repartition of electronic journals vs main topics

Perspectives for 2017

Publication support

OA Fund & Agreements with publishers

The Open Access funds will continue in 2017 to support EPFL researchers who need or wish to publish their articles in a pure Gold OA journal. Regarding the success of the OA funds, the number of reimbursement will be limited to 2 publications by lab by year and the "first come, first served" basis is made upon the manuscript's acceptance date.

Starting in 2017, new agreements with publishers enhance the existing list with partnerships with Wiley, ECS, and the journal *Nucleic Acids Research*.

Detailed information is available on the [Open Access webpage on the Library's website](#) and by email to publish-support.bib@epfl.ch.

ORCID

The Library has renewed its membership with ORCID, an open and non-profit community providing unique researcher identifiers, and continues to reflect how to optimize the introduction of ORCID within EPFL.

Research data and DMP support

Support will continue this year and the Research Data team will be available to EPFL researchers on all issues related to research data and DMP at researchdata@epfl.ch. Ongoing training sessions are also planned for 2017.



EPFL Library teams

Library teams are at your service for any question or query in the following topics:

- **Training**
Induction sessions, one to one training, or any training to help to improve mastering of scientific and technical information.
formations.bib@epfl.ch / <http://library.epfl.ch/training/en>
- **Research data**
Information and training sessions to help to improve the management of research data.
researchdata@epfl.ch / <http://library.epfl.ch/research-data/en>
- **Publish-support**
Answer queries in the fields of publishing activities, copyrights and publishing contracts.
publish-support.bib@epfl.ch / http://library.epfl.ch/OA_Support/en
- **Document supply**
Find the documents not available at the EPFL Library or in the NEBIS Network.
pret-inter.bib@epfl.ch / http://library.epfl.ch/our-services/peb/en?type_form=PEB

Your liaison librarians

For any questions, you may have feel free to contact us.



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Appendix

Infoscience

Detailed statistics [as at December 2016]

- 138 scientific units
- 2,309 references added in 2016
- 13,411 full texts [33%]

Details by institutes

STI – IEL

Unit	# of total references	References published in 2016	# total of references added in 2016	# of fulltexts	% of fulltexts
ASPG	126 [↗19%]	20	21	31 [↗16%]	24.6
DESL	296 [↗11%]	45	53	135 [↗16%]	45.6
ELAB	178 [↗9%]	7	7	15 [↗27%]	8.4
EMC	689 [↗5%]	41	49	29 [↗48%]	4.2
ESL	272 [↗6%]	17	16	253 [↗6%]	93
LANES	82 [↗12%]	11	10	61 [↗15%]	74.4
LEI	418 [↗26%]	8	11	35 [↗3%]	8.4
LEMA	1686	9	0	235 [↗2%]	13.9
LIDIAP	2982 [↗5%]	167	143	2262 [↗5%]	75.9
LIONS	173 [↗8%]	24	18	155 [↗10%]	89.6
LME	107	0	0	39	36.4
LSI2	229	2	1	8	3.5
LSM	522 [↗5%]	37	28	242 [↗2%]	46.4
LTS2	503 [↗4%]	35	19	371	73.8
LTS4	474 [↗1%]	28	30	345	72.8
LTS5	670 [↗4%]	31	26	402 [↗3%]	60

MMSPL	422 [↗4%]	15	15	319 [↗3%]	75.6
NANOLAB	491 [↗3%]	29	34	44	9
PEL	66 [↗12%]	8	8	14 [↗57%]	21.2
PHOSL	98 [↗15%]	12	15	45 [↗50%]	45.9
POWERLAB	37	4	37	3	8.1
PWRS	147	10	11	50	34
SCI-STI-LT	412	28	34	390	94.7
TCL	175	19	18	72	41.1
UPFLEURY	49	8	49	4	8.2
Archives- LEG1	139 [↗1%]	0	0	15	10.8
Archives-LRE	561	0	0	11	2
Archives-LTS	953	0	0	284	29.8
Archives- MNWAVE	190	2	3	14	7.4
Archives- TCOM	40	0	0	9	22.5
Archives- THEVE	313	0	0	296	94.6
Unattributed- IEL	280 [↗86%]	14	20	79 [↗4%]	28.2
TOTAL	13780	631	676	6267	45.5

STI - IGM

Unit	# of total references	References published in 2016	# total of references added in 2016	# of fulltexts	% of fulltexts
ECPS	59	3	3	4	6.8
GTT	210 [↗1%]	5	2	46	21.9
IPESE	238 [↗35%]	40	64	99 [↗70%]	41.6
LA	1113 [↗2%]	46	47	547 [↗3%]	49.1
LA3	73 [↗23%]	17	18	52 [↗12%]	71.2

LAMD	26 [↗38%]	10	11	7 [↗71%]	26.9
LAMMM	235 [↗7%]	14	18	6 [↗50%]	2.6
LFMI	84 [↗4%]	5	6	25 [↗24%]	29.8
LMAF	285	3	0	26	9.1
LMH	730 [↗27%]	14	21	146 [↗1%]	20.0
LRESE	63 [↗16%]	11	10	50 [↗20%]	79.4
LTCM	364 [↗6%]	20	21	36 [↗8%]	9.9
MICROBS	47	5	47	1	2
REACT	254 [↗10%]	25	29	128 [↗16%]	50.4
RRL	42 [↗17%]	14	7	15	35.7
SCI-STI-GFT	0	0	0	0	0
SCI-STI-JVH	17 [↗65%]	9	9	3 [↗33%]	17.6
UNFOLD	37	7	37	0	0
Archives-LCSM	18	0	0	5	27.8
Archives-LENI	1163	7	0	434	37.3
Archives-LGPP	353	0	0	80	22.7
Archives-LICP	78 [↗14%]	5	6	7	9.0
Archives-LIN	317	0	0	18	5.7
Archives-LMF	17	2	0	4	23.5
Archives-LOMI	34 [↗35%]	2	12	16	47.1
Archives-LTT	196	0	0	53	27.0
Unattributed-IGM	187 [↗9%]	7	15	68	36.4
TOTAL	6240	271	383	1876	30.1

STI – IBI

Unit	# of total references	References published in 2016	# total of references added in 2016	# of fulltexts	% of fulltexts
BIOROB	320 (↗6%)	15	25	185 (↗4%)	57.7
BIOS	110	4	100	0	0
CLSE	52	3	3	14	26.5
CNBI	237 (↗14%)	20	21	174 (↗17%)	73.3
LBEN	81 (↗10%)	8	8	66 (↗6%)	81.5
LBNC	46 (↗2%)	5	1	20 (↗10%)	43.5
LBNI	67 (↗1%)	2	2	6	7.5
LBO	463	18	0	167	36.1
LBP	87	10	10	2	2.3
LHTC	254 (↗7%)	13	15	22	8.7
LMAM	431	23	13	36	8.4
LNE	92 (↗20%)	10	19	49 (↗16%)	53.8
LPDI	4	2	2	0	0
MIPLAB	141 (↗11%)	13	18	72 (↗11%)	51.4
TNE	106 (↗19%)	17	17	11 (↗45%)	10.4
Unattributed-IBI	8	6	7	0	0
TOTAL	2499	169	254	824	33.0

STI – IMX

Unit	# of total references	References published in 2016	# total of references added in 2016	# of fulltexts	% of fulltexts
COSMO	60 [↗23%]	15	14	25 [↗24%]	41.7
FIMAP	1	0	0	0	0
INE	26	0	24	0	0
LBI/UPTANG	30	2	30	5	16.7
LC	937 [↗4%]	25	29	137 [↗7%]	14.6
LMC	256	15	19	33	12.9
LMGN	139	7	8	5	3.6
LMM	468 [↗1%]	12	15	55 [↗13%]	11.8
LMOM	34	0	0	1	2.9
LMSC	127 [↗11%]	16	17	92 [↗8%]	72.4
LMTM	131 [↗5%]	9	8	9 [↗33%]	6.9
LP	213 [↗4%]	8	9	5	2.3
LPAC	0	0	0	0	0.0
LSMX	497	6	8	171	34.4
LTP	449	8	12	113	25.2
PBL	14	2	14	4	28.6
SCI-STI-DD	1	1	1	0	0
SMAL	45 [↗13%]	6	7	7 [↗14%]	15.6
SUNMIL	128 [↗9%]	8	12	17 [↗35%]	13.3
THEOS	184 [↗13%]	13	14	6 [↗50%]	3.3
TIC	35 [↗14%]	5	5	6	17.1
UPNUES	12 [↗67%]	0	1	0	0.0
UPSWYG	33 [↗33%]	5	7	3	9.1
Archives-LMCH	8	0	0	2	25.0

Archives-LMMM	17	0	0	2	11.8
Archives-LOMM	82 (↗1%)	1	1	14	17.1
Archives-LTC	887	13	19	70	7.9
Unattributed-IMX	169 (↗13%)	19	19	13	7.8
TOTAL	4983	196	293	795	16

STI – CPN / CBT / SC / Partners

Unit	# of total references	References published in 2016	# total of reference added in 2016	# of fulltexts	% of fulltexts
CEN	164	10	10	38	23.2
CMI	61 (↗18%)	9	9	3	5
CREM	120	7	120	2	0
CTS	15 (↗13%)	1	2	7	46.7
ESC	11	4	4	6	54.5
LNМ_PSI	50	4	5	3	6.0
NCCR-Robotics	278	38	38	168	60.4
RFIC	94	1	1	12	12.8
SCI-STI-MM	233	3	3	94	39.2
Unattributed	35	0	0	0	0
TOTAL	1061	77	192	333	31.4

STI - IMT

Unit	# of total references	References published in 2016	# total of references added in 2016	# of fulltexts	% of fulltexts
AQUA	168	1	0	63	37.5
ESPLAB	298 (↗6%)	13	17	115	38.6 (↗3%)
GALATEA	100 (↗6%)	3	6	1	1
GR-LVT	168 (↗16%)	12	28	55 (↗38%)	32.7

ICLAB	58 (↗50%)	20	30	28 (↗71%)	48.3
INSTANT-LAB	38 (↗26%)	7	9	18 (↗22%)	47.4
LAI	594 (↗3%)	21	24	45 (↗4%)	7.6
LAPD	55 (↗42%)	4	11	9 (↗33%)	16.4
LASA	270 (↗4%)	16	11	184 (↗3%)	68.4
LIB	719 (↗4%)	38	43	195	27.1
LIS	407 (↗4%)	20	19	300 (↗5%)	73.5
LMIS1	610 (↗2%)	16	15	154 (↗2%)	25.2
LMIS2	374 (↗1%)	8	12	94	25.7
LMIS4	399 (↗2%)	12	14	54 (↗9%)	13.5
LMTS	207 (↗12%)	22	26	161 (↗12%)	77.8
LO	449 (↗2%)	13	20	39 (↗8%)	8.7
LOA	791 (↗7%)	1	1	38	4.9
LOB	293 (↗2%)	14	7	63 (↗5%)	20.9
LPM	507 (↗4%)	10	18	300 (↗4%)	59.2
LPMAT	28 (↗21%)	4	5	0	0.0
LSBI	125 (↗2%)	7	7	29 (↗24%)	23.2
LSRO	714 (↗2%)	21	24	312 (↗3%)	43.6
NAM	471 (↗5%)	16	20	171 (↗2%)	36.2
OPT	874	19	23	144 (↗3%)	16.7
PV-LAB	681 (↗2%)	16	18	310	45.5
Q-LAB	69 (↗13%)	3	7	1	1.5
SCI-STI-HL	229	0	0	7	3.1
Archives-SAMLAB	1499	5	8	94	6.3
Archives-LMIS3	97	2	2	4	4.1
Archives-LSA	341	0	0	193	56.6
Archives-PARLAB	18	0	0	7	38.9
Unattributed-IMT	248 (↗7%)	13	16	73	29.4
TOTAL	11899	357	441	3261	27.4

