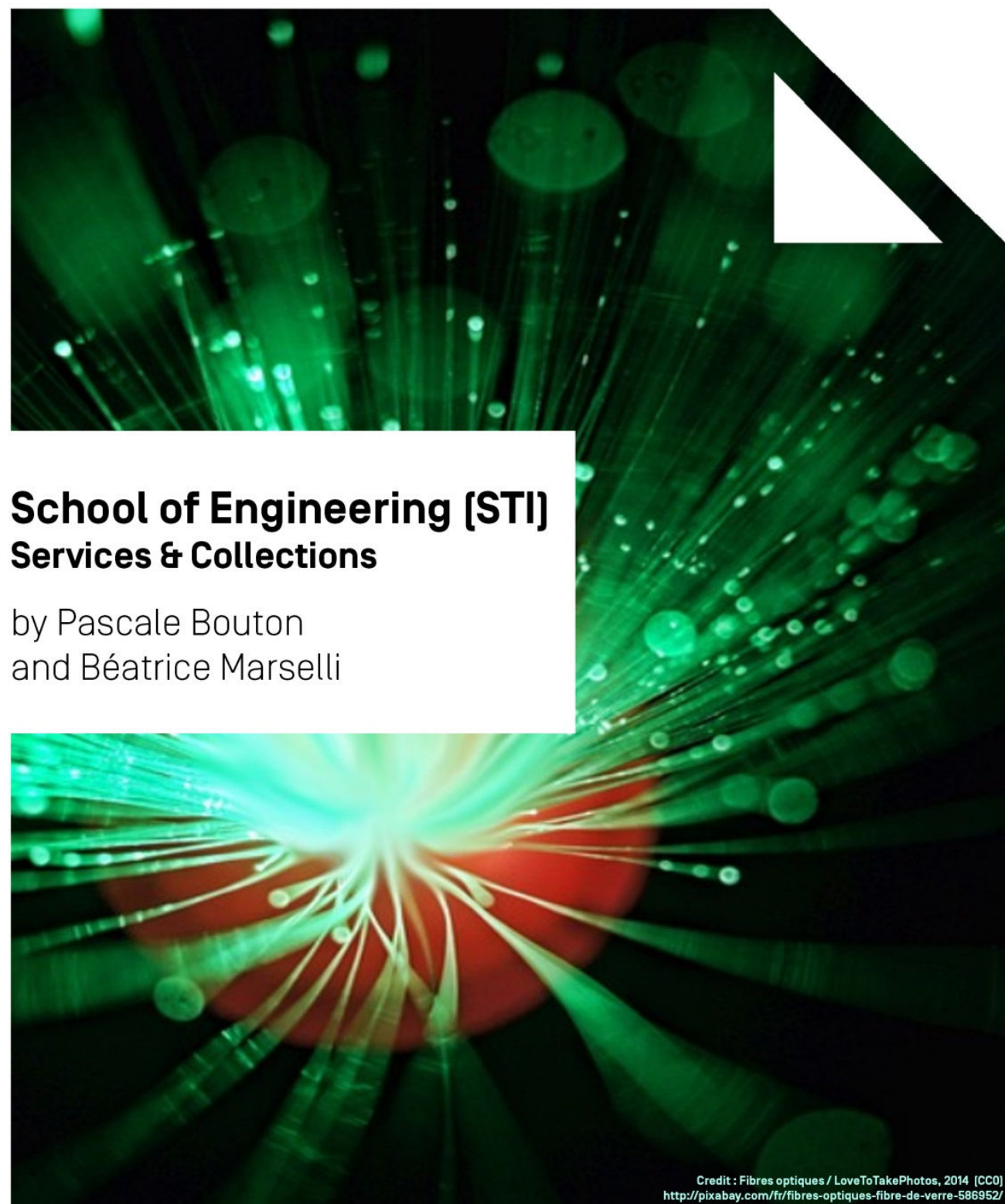


2014 Annual Report



School of Engineering [STI] Services & Collections

by Pascale Bouton
and Béatrice Marselli

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1. 2014 : Key figures

COLLECTIONS

60'000+ ebooks

+61 new ebooks for STI in 2014

59 single titles

2 reference works

650+ electronic journals

30+ Databases – 8 dedicated to STI

2 bibliographic

4 disciplinary

1 bibliometrics

1 funding

USAGE OF PRINT COLLECTIONS

4'537 loans

1'791 borrowed books

INFOSCIENCE

107 research units

31'762 references [**+1'629** in 2014]

10'323 full text documents [33%]

INFORMATION LITERACY TRAINING

1 online course for all Ba1

284 STI Ba, MSc, and PhD students trained during classroom sessions

5 PhD seminars, 20 STI PhD participants

2. 2014: Key facts

3 new COB representatives
2 new liaison librarians

COB representatives relay, within the STI institutes and sections, all information, proposals or requests from the Library and communicate the STI needs in terms of scientific and technical information (collections, services...) to the STI liaison librarians.

The STI School is now represented within the COB by:

Dr. Matteo Galli for Mechanical Engineering,

Dr. Philippe Gay-Balmaz for Electrical Engineering,

Dr. Yves Leterrier for Microengineering and Materials Science & Engineering

Since October 2014, two new liaison librarians are dedicated to STI:

Béatrice Marselli for STIA (Microengineering, Materials Science and Engineering)

Pascale Bouton for STIB (Electrical Engineering, Mechanical Engineering, Bioengineering)

3. Teaching Support

Services to Students: Information Literacy Training

644 STI bachelor participants to Global Issues (library online training)
266 STI bachelor participants to classroom sessions (classroom training)

Bachelors

In September, the Library spaces, resources and services were presented to the new STI bachelors during the welcome day.

Global Issues project: the 1st year bachelor students have taken benefit of the Library's online advanced advices. Librarians provided them with guidance regarding information's search, images rights, and citations through tutorials, quiz and videos.

[\[youtube.com/playlist?list=PLPk0Hxsjx2ig1nUxehpq6oYSpl5nZisH\]](https://youtube.com/playlist?list=PLPk0Hxsjx2ig1nUxehpq6oYSpl5nZisH)

Specific classroom training sessions: teachers who wish their students to discover the dedicated scientific resources and to be trained in documentary research methods can also ask teaching librarians.

In 2014, librarians participated in 3 STI courses (4 sessions).

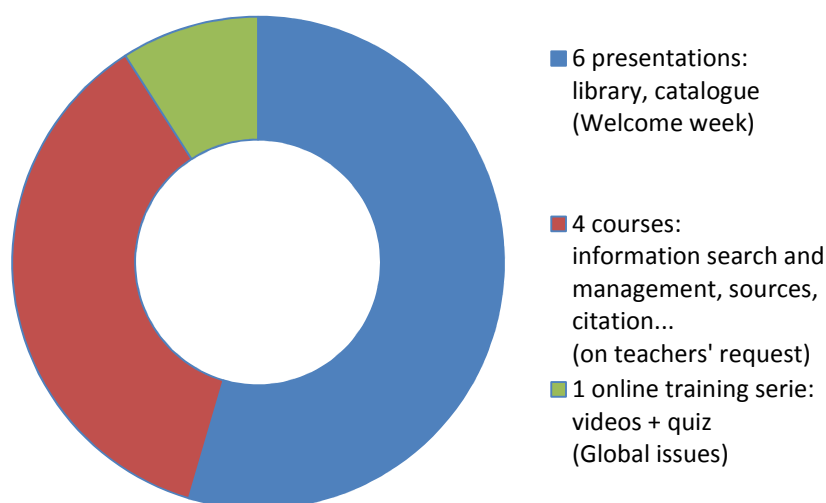
STI teachers asked the librarians for a specific session about information search, use of databases, citation, and plagiarism, directly connected to their courses:

- P-E Bourban (BAs2 : Technology and practice of materials),
- J. Paik (BAs5 : Design project), and P. Ryser (BAs5 : Production methods).

Masters

During the international day, new master students discovered the virtual library at EPFL and visited the library during a guided tour.

Chart 1 Number of training and awareness actions for STI bachelors: format of training



The number of people trained by faculty is shown in appendix.

Services to Teaching: Teaching Collection Development

The teaching collection gathers the books recommended by the teachers as a support to their courses [Bachelor and Master cycle]. These documents are available in several copies [one copy remains excluded from loan] and are easily accessible at the library entrance (shelves behind the welcome desk). Some electronic resources are also available for students including electronic textbooks and databases.

Liaison librarians consider every suggestion for purchase for the teaching collection and buy every new document recommended by STI teaching staff as far as possible. The resources can then be accessed through the course description [IS-Academia] and the library catalogue BEAST (<http://beast-epfl.hosted.exlibrisgroup.com/>).

4. Research support

Services to Laboratory and Research Units

Infoscience

The library supports the STI community for the management (importation, validation, etc.) of the publications in Infoscience, the EPFL institutional repository. Upon the arrival of a new professor at EPFL, we are also helping the creation of the entity in Infoscience and the first publication imports. The library is also available to answer any questions regarding publications: Green and Gold Open Access, copyright issues, etc.

Table 1 shows the number of references as well as the full texts for each STI institute (see in the appendix section for breakdown by labs).

Table 1 Number of references and full texts in Infoscience – STI institutes

Institute	# of lab / unit	References [↗ in 2014]	# of full texts	Average % of full texts
IMT	27	9744 [↗329]	2588	35
IMX	17	4171 [↗147]	632	16
IEL	24	9849 [↗655]	4577	39
IGM	19	4935 [↗239]	1403	27
IBI	10	1095 [↗119]	451	29
CPN/CBT/SCI	10	1913 [↗118]	775	35

Resources for STI researchers

Liaison librarians consider every purchase suggested by the STI community as far as possible. New subscriptions or cancellations of existing subscriptions are annually discussed between the COB representative and the liaison librarian and finally decided within the COB meeting.

Services to PhD Students

155 theses performed within STI and made accessible online through the catalog of EPFL theses

155 theses have been performed in 2014. Within its official mission as copyright depositor of EPFL PhD theses, the Library is responsible for their distribution.

Information Literacy Training

5 Information literacy seminars
20 STI PhD student participants to information literacy seminar

5 information literacy seminars (one-day session) were proposed to PhD students in 2014, in cooperation with doctoral schools.

These sessions aimed to describe the mechanisms of academic publication business and the subtleties of impact factor and h-index as well as to discover the best scientific documentary resources, to formulate relevant search equations, and to present the advantage of using a reference manager.

5. Budget for STI collections

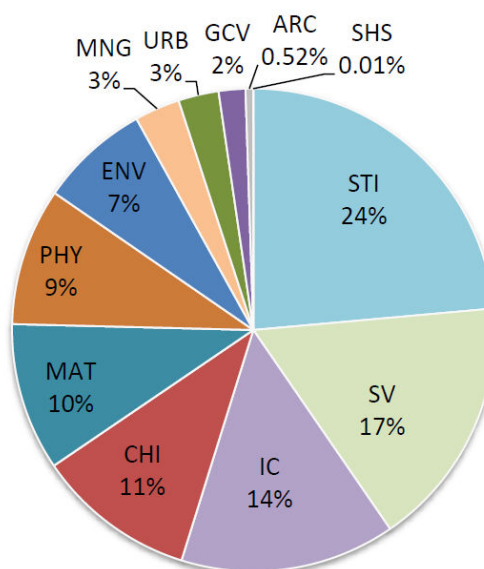
108'660 CHF for @ resources [+39% compared to 2013]
29'811 CHF for print resources

In 2014, the STI library's expenditures were of 108'660 CHF for electronic resources and 29'811 CHF for print resources. Regarding electronic resources, 61 individual titles (for a total of 13'584 CHF for ebooks and 2'000 CHF for reference works) and 5 packages for a total of 93'076 CHF (Springer Engineering, Springer Chemistry & Materials Sciences, IET Digital Library, World Scientific Press Engineering, and RSC ebooks) were acquired in 2014 and will be accessible in 2015. The average cost for ebooks is equal to 230.25 CHF.

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

As shown by the circle chart below the expenditures for STI represented 24% of the total library amount.

Chart 2 Distribution of electronic resources expenditures vs research domains



6. STI Collections at the library

Books and ebooks

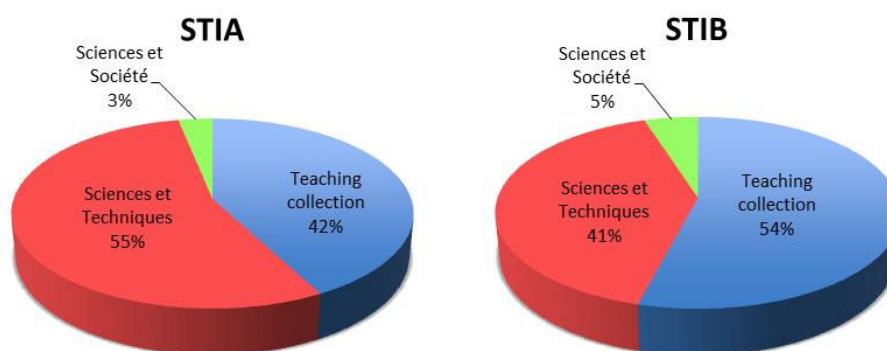
239 books were purchased for STI in 2014.

They can be found in several locations in the library; the Teaching Collection for bachelor and master students, the "*Sciences et Techniques*" area dedicated to research and the "*Sciences et Société*" section for a general audience. Less borrowed books are located in the "*Sous-sol*" of the "*Sciences et Techniques*" location of the library.

Table 2 Number of books and loans vs library locations

Locations	Number of books	Number of loans (2014)
Teaching collection	1946	525
Sciences et Techniques	1914	695
Sciences et Société	165	69

Chart 3 Percentages of books vs the library locations



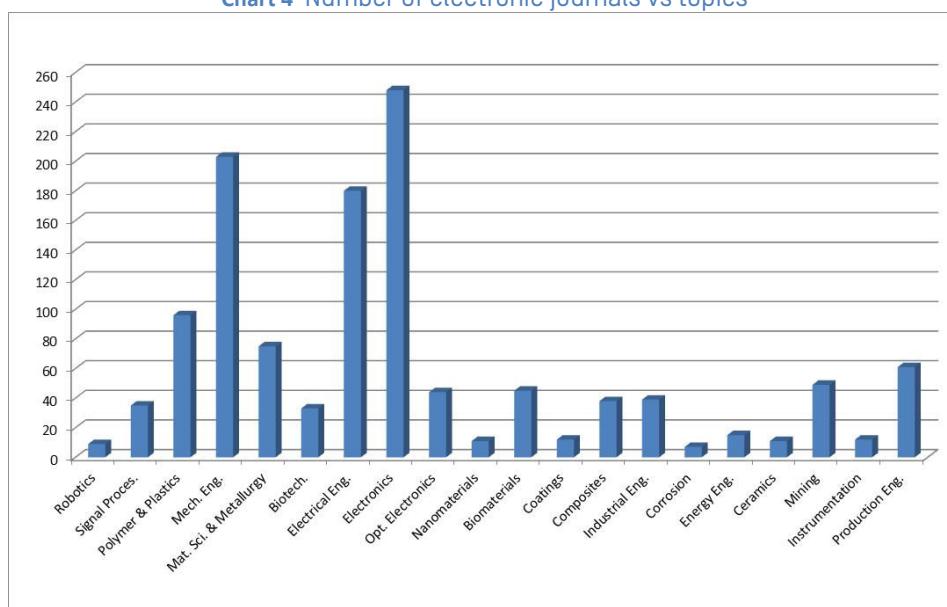
59 ebooks have been purchased for STI in 2014: 24 titles for materials science and 35 for microengineering, mechanical and electrical engineering, and bioengineering.

2 reference works: Encyclopedia of Aerospace Engineering and Comprehensive Hard Materials

Journals

More than 650 electronic journals (subscribed and open access journals) are made accessible by the library. They can be found through the library catalog BEAST or directly by subject through the following link: http://sfx.ethz.ch/sfx_epf/az?param_perform_value=searchCategories

Chart 4 Number of electronic journals vs topics



Databases

Amongst all the databases available at the library, **8 databases** are especially useful for the STI community [description and link below].

Table 3: Useful databases for STI

Database	Subject	URL
Scopus	Bibliographic	http://www.scopus.com/
Web of Science	Bibliographic	http://bit.ly/10aa314
Engineering Village	Engineering	http://bit.ly/1QdPPC1
Proquest Materials	Materials	http://bit.ly/10Bp9HT
Springer Materials	Materials	http://materials.springer.com/
Chronométrie	Horology	http://www.ssc.ch/bdchrono

Scopus and Web of Science are multidisciplinary bibliographic databases containing abstracts and citations for peer-reviewed academic journal articles.

Engineering Village offers access to 12 engineering literature and patent databases providing coverage from a wide range of trusted engineering sources. Proquest Materials Science collection contains materials science related full-text articles, whereas Springer Materials provides numerical and graphical data on the properties of materials. Chronométrie gives access to congresses, scientific and technical papers about horology. Research professional is a source of intelligence on funding opportunities and research policy. Incites allows to conduct analyses on institutional productivity and benchmark research output against worldwide peers.

7. 2015 Program

The 2015 Library priority is to develop collaboration with the faculty, including participation of the representatives to the COB sessions.

Various operations will be conducted to enrich and update documentary collections. Liaison librarians will promote to STI users the specific resources through dedicated presentations.

Dedicated services are offered to teachers, researchers, and students: classroom sessions for bachelors and masters, training seminars for PhD students, assistance for current awareness alerts and bibliometric tools, support for Infoscience.

The library also provides support to the labs with their [research data management](#). The EPFL Library, the Research Office and the VPSI are setting up a collaborative service to support researchers' data management strategies. The aim of this service is to provide support to EPFL research units both in the daily management of their data and to help them comply with some funders' requirements (esp. H2020 Open research data pilot). The library will further its collaboration with Swiss Higher Education Institutions (ETHZ, Université de Genève, Haute école de gestion de Genève, SWITCH, Universität Basel, Universität Zürich, Université de Lausanne) on a Data Life cycle Management project funded by Swiss universities - P2).

- For further information :

<http://www.swissuniversities.ch/fr/organisation/projets-et-programmes/programme-cus-2013-2016-p-2-information-scientifique-acces-traitement-et-sauvegarde/>

- English abstract of the project :

http://www.swissuniversities.ch/fileadmin/swissuniversities/Dokumente/DE/UH/SUK_P-2/Abstract_DLCM.pdf

- For further questions about the service: datamanagementplan@epfl.ch

To gather their needs and to promote the Library's offer, the liaison librarians will seek to establish regular communications towards the STI members, through regular meetings, their new quarterly newsletter, their webpages on the next library website, students' presentations during the Welcome week, etc.

8. EPFL Library teams



For further information about the library and its activities, please refer to its website : library.epfl.ch

Library teams at your service for any question or query. ✉ questions.bib@epfl.ch

The training team will set up welcoming sessions, one to one training, or any training that may help you improve your mastering of scientific and technical information.

✉ formations.bib@epfl.ch / library.epfl.ch/training/en

Your liaison librarians



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9. Appendices

STI collection [books]

Chart 5 Number of books vs location

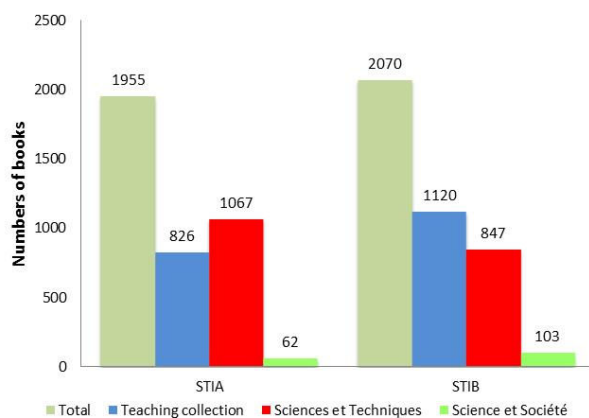
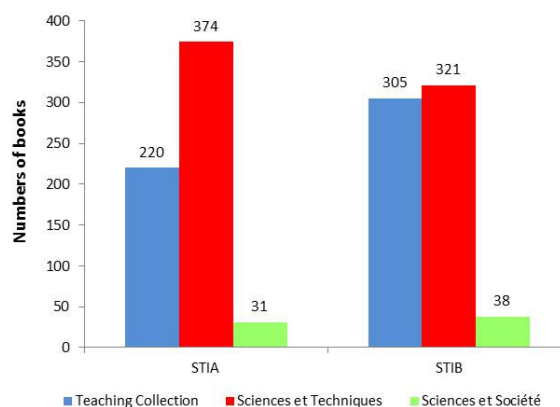


Chart 6 Number of loans vs location



Information literacy training

Chart 7 Number of people trained by the Library in 2014 by faculty

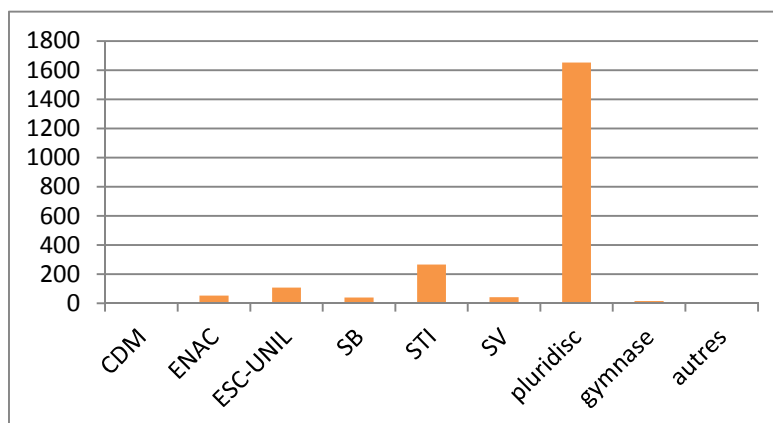


Chart 8 Information literacy training for STI bachelors: participants vs. format

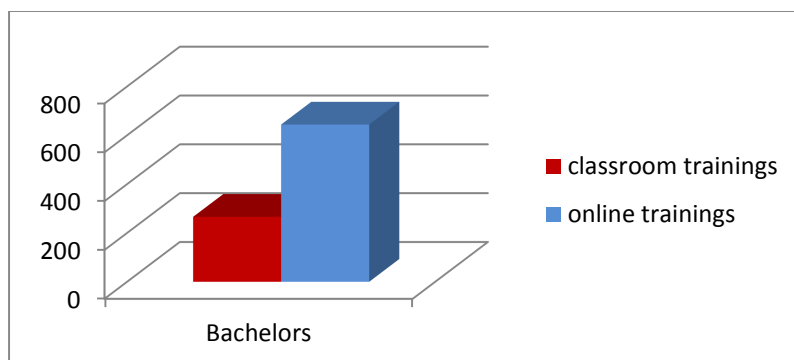
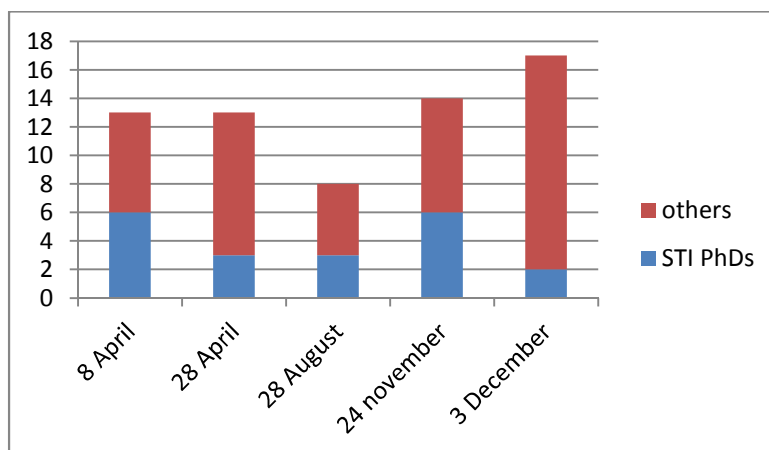


Chart 9 Information literacy training for STI PhDs: participation to one-day seminars



Infoscience

Detailed statistics (status as at December 2014)

- 107 scientific units
- 1'629 added references in 2014
- 10'323 full texts [33 % full texts]

Details by institutes

STI – IBI

Unit	Institute	References [added in 2014]	# of fulltexts	% of fulltexts
LBEN	IBI	58 [↗16]	50	86
BIOROB	IBI	283 [↗21]	173	61
LHTC	IBI	196 [↗13]	13	7
LBNI	IBI	63 [↗2]	2	3
MIPLAB	IBI	105 [↗23]	57	54
CLSE	IBI	47 [↗3]	10	21
LBNC	IBI	40 [↗4]	15	38
TNE	IBI	74 [↗15]	6	8
LBP	IBI	84 [↗9]	2	2
GR-VDB	IBI, SB	145 [↗13]	9	6

STI – IEL

Unit	Institute	References [added in 2014]	# of fulltexts	% of fulltexts
MMSPL	IEL	384 [↗36]	289	75
LSI2	IEL	223 [↗3]	5	2
LEI	IEL	388 [↗19]	32	8
LEMA	IEL	1550 [↗36]	225	15
ELAB	IEL	153 [↗1]	9	6
LIDIAP	IEL	2675 [↗158]	2030	76
ESL	IEL	245 [↗28]	230	94
PWRS	IEL	131 [↗12]	34	26
EMC	IEL	616 [↗47]	12	2
ASPG	IEL	93 [↗10]	26	28
PHOSL	IEL	72 [↗10]	23	32
DESL	IEL	228 [↗28]	85	37
PEL	IEL	52 [↗6]	0	0
MNWAVE	IEL	181 [↗36]	11	6
NANOLAB	IEL	416 [↗15]	40	10
LANES	IEL	60 [↗11]	38	63
LSM	IEL	461 [↗46]	220	48
TCL	IEL	140 [↗30]	59	42
LTS5	IEL	606 [↗41]	367	61

LTS4	IEL	446 [↗34]	328	74
LTS2	IEL	444 [↗25]	342	77
LIONS	IEL	138 [↗23]	123	89
TCOM	IEL	40	9	23
LME	IEL	107	40	37

STI - IGM

Unit	Institute	References [added in 2014]	# of fulltexts	% of fulltexts
LFMI	IGM	64 [↗25]	13	20
LCSM	IGM	18	6	33
LGPP	IGM	355 [↗6]	78	22
LMAF	IGM	308 [↗11]	23	7
LTCM	IGM	335 [↗9]	32	10
LICP	IGM	61 [↗8]	5	8
LMH	IGM	706 [↗17]	139	20
LA	IGM	1060 [↗52]	496	47
LENI	IGM	1190 [↗12]	381	32
LOMI	IGM	20	16	80
RRL	IGM	17 [↗1]	0	0
LRESE	IGM	46 [↗5]	31	67
SCI-STI-FM	IGM	94 [↗34]	11	12
SCI-STI-JVH	IGM	2	0	0
GTT	IGM	194 [↗12]	45	23
REACT	IGM	213 [↗9]	93	44
LAMD	IGM	8 [↗4]	0	0
LA3	IGM	37 [↗23]	33	89
LAMMM	IGM	207 [↗11]	1	0

STI – CPN / CBT /SCI

Unit	Institute	References [added in 2014]	# of fulltexts	% of fulltexts
CNBI	CPN	177 [↗23]	113	64
CHCN	CPN	3	0	0
LMAM	CBT	395 [↗32]	23	6
LBO	CBT	452 [↗24]	142	31
THEVE	GR-SCI-STI	341 [↗24]	316	93
AQUA	GR-SCI-STI	196 [↗2]	73	37
RFIC	GR-SCI-STI	72 [↗5]	9	13
SCI-STI-MM	GR-SCI-STI	214 [↗7]	89	42
CMI	CPN	50	3	6
CTS	CPN	13 [↗1]	7	54

STI - IMT

Unit	Institute	References [added in 2014]	# of fulltexts	% of fulltexts
LIB	IMT	343	195	57
NAM	IMT	399 [↗14]	166	42
LIS	IMT	375 [↗22]	274	73
LMTS	IMT	156 [↗16]	113	72
LASA	IMT	239 [↗18]	171	72
SAMLAB	IMT	1500 [↗33]	80	5
PARLAB	IMT	10 [↗1]	7	70
LPM	IMT	473 [↗24]	277	59
LAI	IMT	541 [↗27]	42	8
ESPLAB	IMT	264 [↗16]	102	39
LPMAT	IMT	8	0	0
PV-LAB	IMT	605 [↗21]	296	49
OPT	IMT	854 [↗21]	132	15
LMIS2	IMT	328 [↗11]	70	21
LMIS1	IMT	552 [↗20]	141	26
LMIS4	IMT	371 [↗21]	45	12
LAPD	IMT	1	1	100
LOB	IMT	269 [↗5]	55	20
LOA	IMT	830 [↗3]	36	4
LO	IMT	431 [↗10]	37	9
LSR0	IMT	650 [↗19]	282	43
LSBI	IMT	110 [↗6]	15	14
INSTANT-LAB2	IMT	0	0	0
GR-LVT	IMT	137 [↗4]	31	23
INSTANT-LAB	IMT	13 [↗4]	6	46
ICLAB	IMT	13 [↗8]	7	54
SCI-STI-HL	IMT	272 [↗5]	7	3

Unit	Institute	References [added in 2014]	# of fulltexts	% of fulltexts
THEOS	IMX	127 [↗1]	2	2
LMSC	IMX	94 [↗14]	70	74
LMOM	IMX	23 [↗5]	0	0
SUNMIL	IMX	109 [↗9]	6	6
LTP	IMX	437 [↗13]	123	28
LTC	IMX	925 [↗18]	57	6
LMM	IMX	423 [↗6]	44	10
LMC	IMX	234 [↗17]	26	11
LSMX	IMX	473 [↗15]	149	32
LC	IMX	862 [↗23]	114	13
LP	IMX	190 [↗11]	4	2
LOMM	IMX	81	14	17
TIC	IMX	22 [↗1]	5	23
UPSWYG	IMX	17	1	6
UPNUES	IMX	0	0	0
COSMO	IMX	40 [↗8]	17	43
LMTM	IMX	114 [↗6]	0	0

EPFL Library

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Editor: PB / BM, 10.07.2015, EPFL Library