



Göttingen/ **eResearch Alliance**

GeTS: Göttingen eResearch Toolbox Series

Electronic Note Keeping

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Program



Time	Topic	Speaker
11.00-11.30	Introduction, Collection of discussion topics	Jens Dierkes/Harald Kusch
11.30-12.00	Chemotion Karlsruhe	Nicole Jung
12.00-12.15	Labfolder: MPI-BPC AG Stark	Erik Schliep
12.15-12.30	RSpace: SFB 1002/1190	Harald Kusch
12.30-12.45	Break	
12.45-13.30	Discussion tables	
13.30-14.00	Summarizing discussion	Jens Dierkes/Harald Kusch
14.00-14.30	Optional: Live demonstration(s)	Harald Kusch

Paper versus Digital

Paper based lab notebook

- Hand written
- Documentation of experiments
- Documentation of (published) results
- Functions (possibly) in proof security
- Is archived in the lab (>10 years)
- Is used chronologically (e.g. daily work of scientist)

Electronical lab notebook (ELN)

- Documentation of experiments and crosslinking of SOPs
- Documentation and crosslinking of results
- Crosslinking of publications
- Simplified readability
- Enables searchability
- Enables capturing of standardized descriptive data (e.g. templates, default values)
- Enables adapted structuring: chronologically, project- or experiment-based
- Enables location independent access
- Automatic centralized data backup

Challenges:



Academic research environments

- No routine workflows (basic research)
- Dynamic working structures (heterogeneous methodology)
- High dynamics of interdisciplinary team composition
- Data management/access policies rarely defined

Examples: ELN categories

- Cross-Disciplinary
 - Google Keep, Evernote, OneNote
 - MediaWiki
 - Sharepoint
- Discipline-, Technique-specific
 - Academic (natural) science (eCAT/Rspace, Labfolder)
 - Chemical analytics (ChemTrove, E-Notebook)
 - Proteomics (OpenLAB, NuGenesis)
 - Inventories (LabGuru)
 - Patents

Top 4 Topics

- 78% Connectivity of lab documentation (machines, data sources,...)
- 73% Lab (data) organization and representation in ELNs
- 62% Requirements Hardware/IT infrastructure
- 40% Pros & Cons of ELN solutions

Discussion Groups



Documentation

https://etherpad.gwdg.de/p/Göttingen_eResearch_Toolbox_Series

https://etherpad.gwdg.de/p/GeTS_ELN

For the discussion groups:

https://etherpad.gwdg.de/p/GeTS_ELN_Connectivity

https://etherpad.gwdg.de/p/GeTS_ELN_LabOrga

https://etherpad.gwdg.de/p/GeTS_ELN_INF

https://etherpad.gwdg.de/p/GeTS_ELN_ProsCons

Research Bazaar

@ Data Science Summer School

July 12 2017, 14:00 – 18:30h

Historical Building SUB, Alfred-Hessel-Saal

Göttingen, Germany

Present your research through the lens of data science
Exchange ideas, insights, experiences by connecting with
International participants of the summer school
Researchers on the Göttingen Campus
All this in a bazaar-style setting!

Register your contribution by June 30
via email to ds3-oc@lists.uni-goettingen.de
and visit <https://goo.gl/Awc4PJ> for further information

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