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Pre- and Post-Research Group Selection: Evolving Roles for Chemistry Librarians

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Pre- and Post- Research Group Selection: Evolving Roles for Chemistry Librarians

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Lincoln

ABSTRACT SYMPOSIUM NAME: Chemistry Librarians of the Future (Oral)

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TITLE: Pre- and Post-Research Group Selection: Evolving Roles for Chemistry Librarians

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ABSTRACT BODY:

Abstract: Librarian consultations with research groups, flipped classroom exercises, active learning, and Just-In-Time instruction sessions are increasing at public and private doctoral granting universities at a time when many library staffs are shrinking. As the needs and points of contact with graduate students evolve it will be critical for the depth of knowledge and resources of chemistry librarians to be understood and shared both in-person and on-demand online.

This presentation will outline the strategies used to meet the evolving needs of chemistry graduate students as they move from pre-research group selection into established research groups.



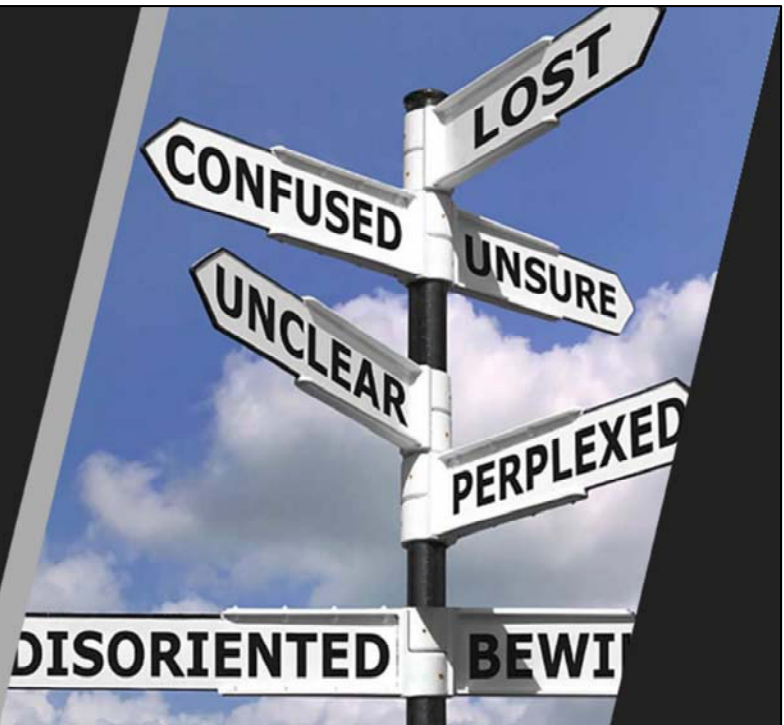
Today we'll be discussing the recent evolution of graduate student skills and needs pre-research group and post-research group. We will then discuss the current and future trend toward online and on-demand support.

Then

**20-30 New Grad
Students/Year**

**< 20% Exp.
w/Databases**

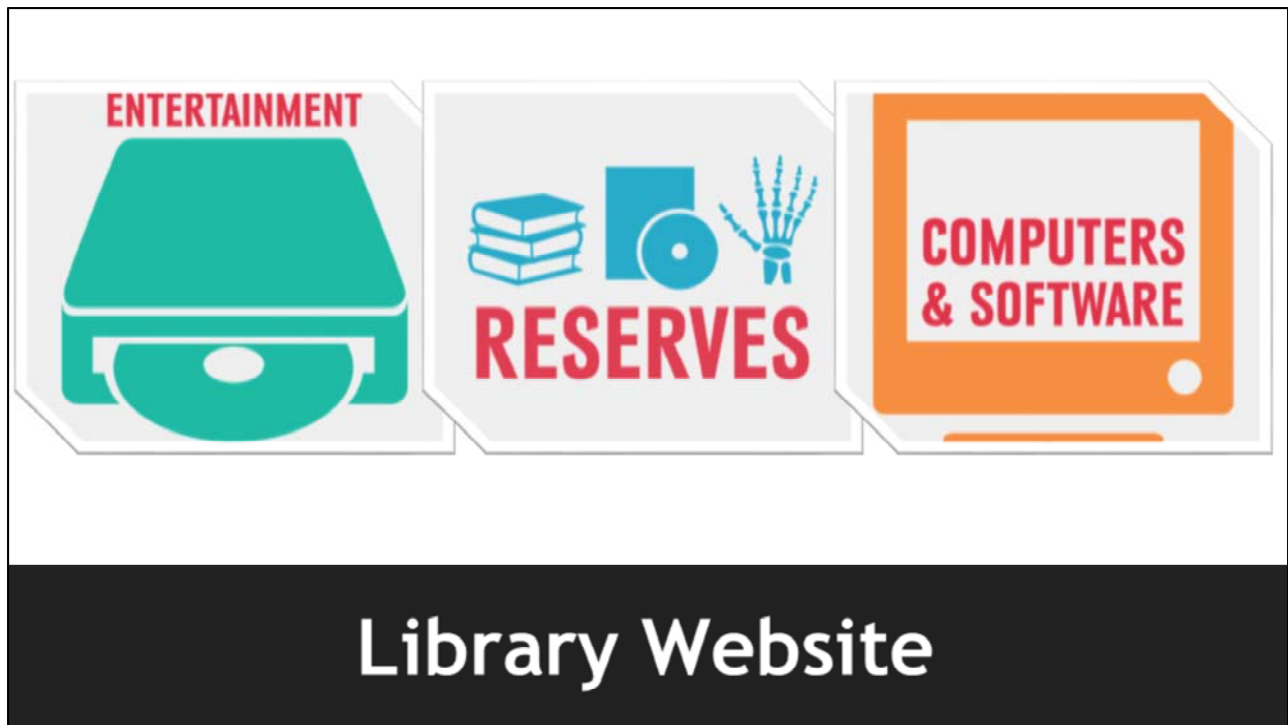
?Article Structure?



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We go over the library website.



Choosing the best databases and how to use the different types of databases was the primary emphasis of the instruction.

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Read, Evaluate, & Save Journal Articles

We also spent quite a bit of time on going over how to read, evaluate, and save journal articles, including using citation managers.

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https://commons.wikimedia.org/wiki/File:Magnifying_glass_with_focus_on_glass.png

Now

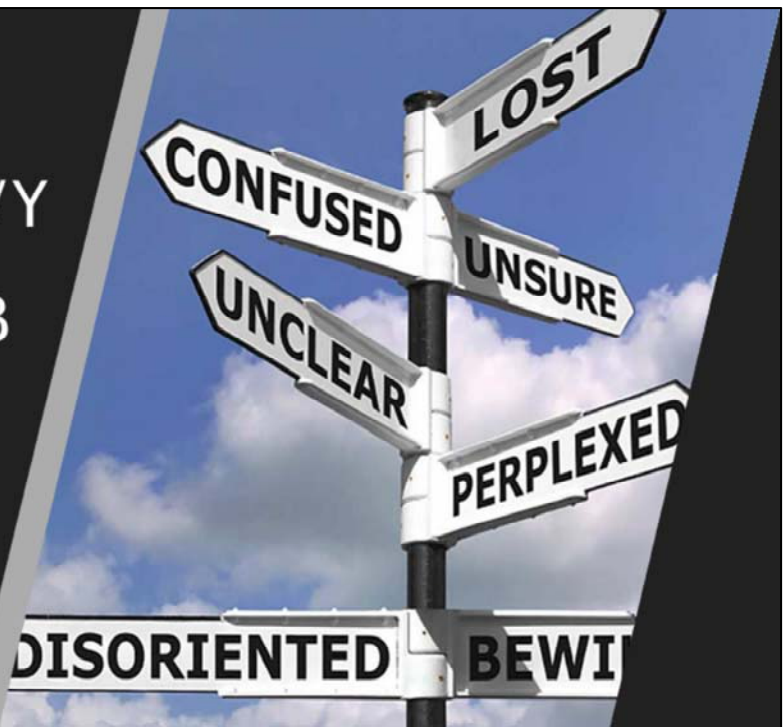
20-30 New G/S /Y

> 80% Exp. w/DB

Articles?

Citations?

ILL?



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Now we still go over:

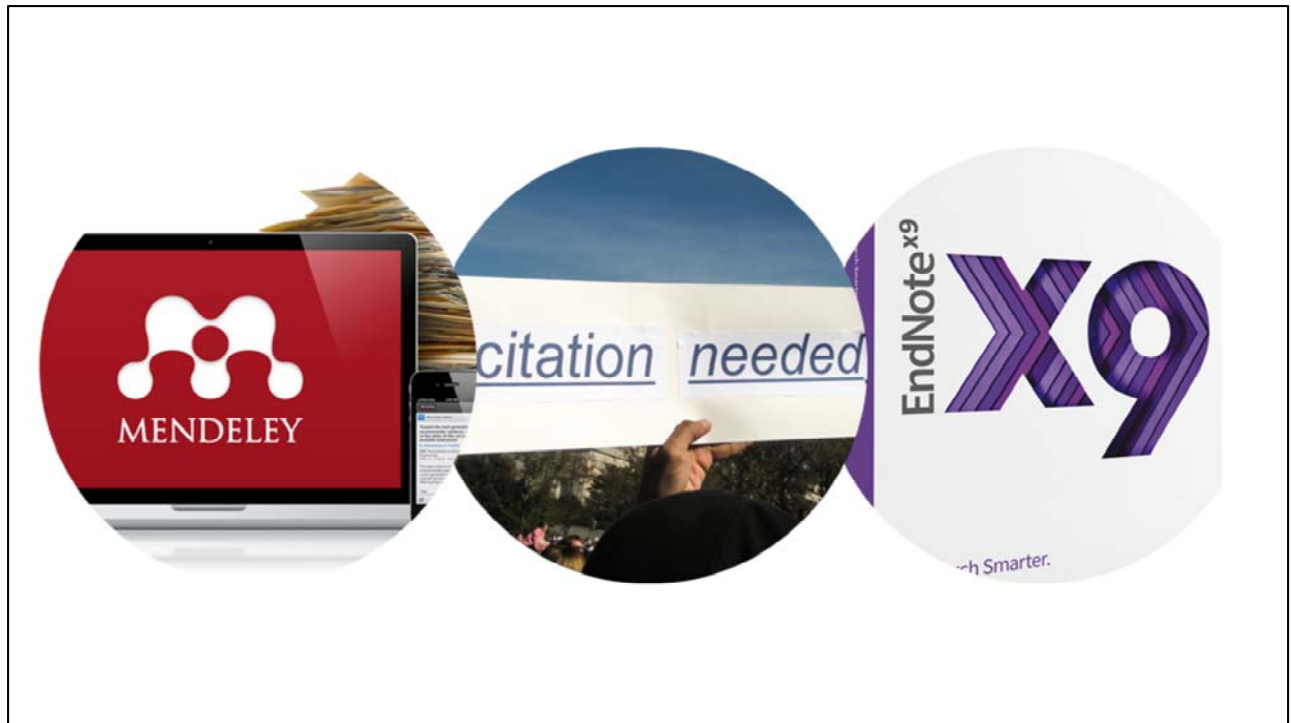
- Using the library
- Choosing a database
- SciFinder Scholar, Web of Science, Scopus
- Reading and Evaluating Journal articles

Image Credit: CC0 by ArtsyBee <https://pixabay.com/en/training-corporate-lecture-998351/>



However the bulk of the time is spent on two other topics. The first is citation chaining. Over the past 8 years faculty feel that graduate students are coming in more prepared to read and search for literature. But there is a mental disconnect between doing a search and doing a thorough search and not just stopping once you find that first article.

Image Credit: CC0 by Elisa Riva <https://pixabay.com/en/network-social-social-networks-1911678/>



We still spend a chunk of time trying to help students value and organize their citations.

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Reputation Management using Author ID/Social Media/Etc. Digital Commons, etc.

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**Post-Research
Group Selection:
Beyond Your Sub-
discipline**

Then

~4 M.S.
~3 Ph.D.
students/year

Endnote

Plagiarism

SciFinder Scholar

Web of Knowledge

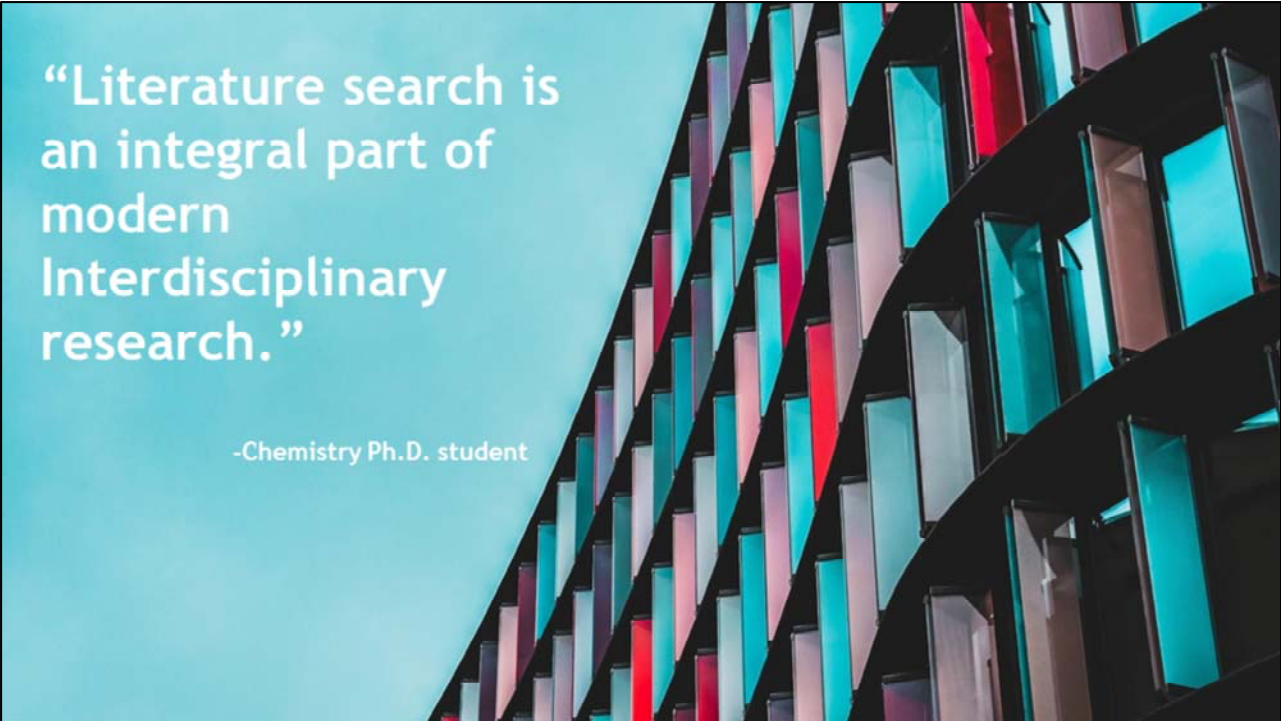




"EndNote X2 trouble-2" flickr photo by Jun Seita

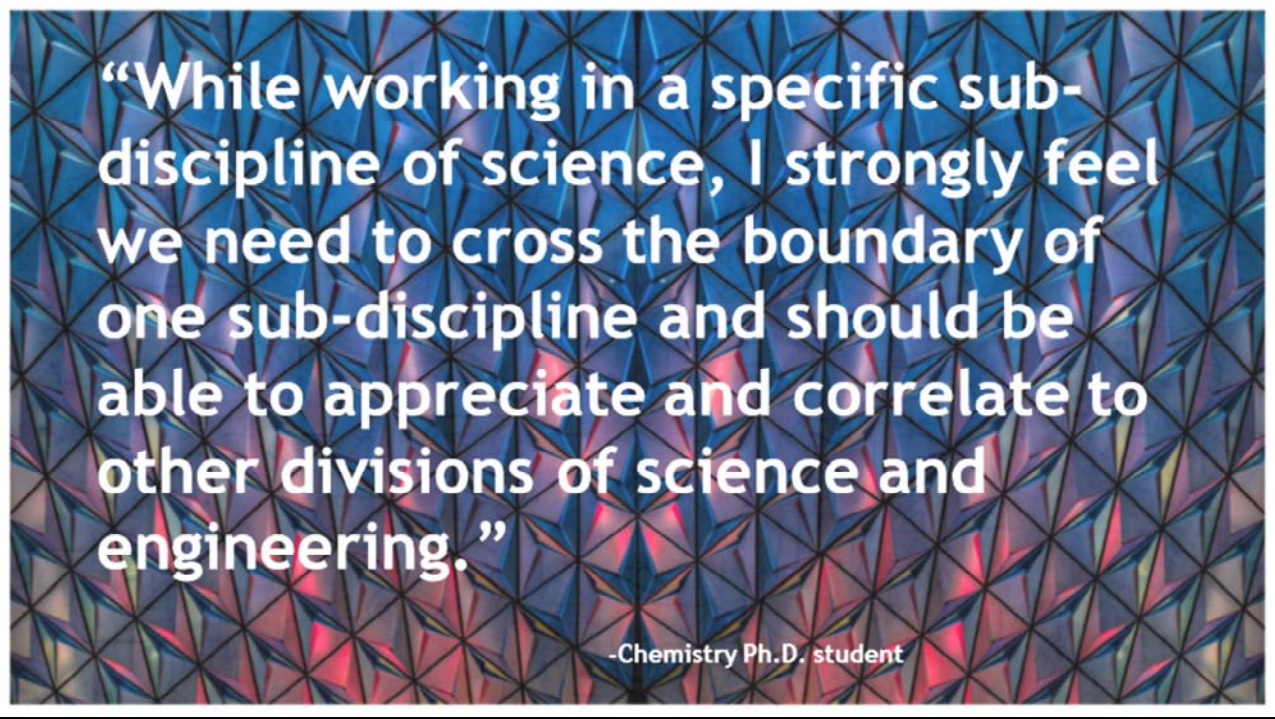
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<https://www.plagiarism.org/>



“Literature search is
an integral part of
modern
Interdisciplinary
research.”

-Chemistry Ph.D. student



“While working in a specific sub-discipline of science, I strongly feel we need to cross the boundary of one sub-discipline and should be able to appreciate and correlate to other divisions of science and engineering.”

-Chemistry Ph.D. student

**Technology
Commercialization
Manager**

**Office of Technology
Commercialization &
Business Development**

Temple University

- “Carrying out in-depth prior art searches for patentability analysis is an important part of my job.”
 - “Better and efficient in performing my current task of Intellectual Property analyses for scientific inventions”

Now

~3 M.S.
~8 Ph.D.
students/year

Zotero, Mendeley,
Endnote
Plagiarism
SciFinder
e-EROS
ICSD
Web of Science
Scopus



WAKE FOREST
UNIVERSITY



Comparison Chart

Comparison Chart Between Zotero, Mendeley, and EndNote

All citation managers all provide the same basic features and functionality with a few exceptions specific to particular tools. Use the chart below to narrow down your choices, the rest is up to you. Talk to people in your department – some disciplines tend to use one tool more than others.

Comparison Chart

Zotero	Mendeley	EndNote	EndNote
Can sync with online account; connectors for Firefox, Chrome and Safari and Opera available	Not primarily, but can sync with an online account which is editable	Yes, with EndNote basic account	Yes




Academic Integrity at MIT


A Handbook for Students

<http://guides.libraries.psu.edu/CitationStyles/Tools>
<https://integrity.mit.edu/handbook/what-plagiarism>

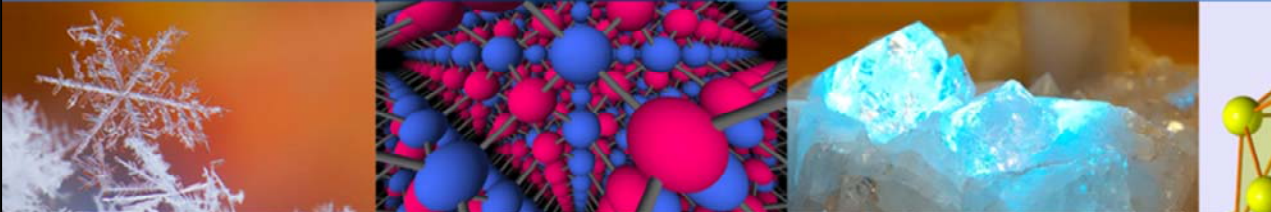
Book

e-EROS ENCYCLOPEDIA OF REAGENTS FOR ORGANIC SYNTHESIS 

FIZ Karlsruhe Advancing Science
Leibniz Institute for Information Infrastructure

QUICKLINKS  DEUTSCH

FIZ KARLSRUHE SERVICES RESEARCH JOBS & CAREER



Home » Services » Crystallography » ICSD

ICSD – the Inorganic Crystal Structure Database [Direct link to ICSD](#)

<https://onlinelibrary.wiley.com/doi/book/10.1002/047084289X>

<https://www.fiz-karlsruhe.de/en/leistungen/kristallographie/icsd.html>

Scopus content at a glance:
Curated from over 5,000 publishers, indexed and organized to support your research n

Specialty ▾ Newsroom ▾ Training ▾ About ▾ Blog

The infographic features a central 'Scopus' logo with a dashed blue circle around it. To the left, a house icon is labeled '+ 5,000 Publishers'. An arrow points from this icon to a larger arrow labeled '22,800+ Serial titles' and '+150,000 Books', which then points to the central circle. The central circle contains the text '70 million Items' at the top, '1.4 Billion cited references dating back to 1970' in the middle, and 'Scopus' in orange below. To the right of the central circle, another arrow points to a circle labeled '16 million Author profiles'. Below the central circle, an arrow points to a circle labeled '~70,000 Main institutional profiles'. On the right side of the infographic, a vertical bracket groups the '70 million Items', '16 million Author profiles', and '~70,000 Main institutional profiles' statistics, with an arrow pointing towards the 'Essential Science Indicators' banner.

Essential Science Indicators
See where science is going and who's leading the way

Research Metrics

<https://clarivate.com/products/essential-science-indicators/>

<https://www.elsevier.com/solutions/scopus/how-scopus-works/content>



Recent articles published about incoming freshman project that students desire a personalized education.

Key words and phrases include:

- High Touch
- Personalized
- Flexible
- Engagement
- Pre-work

This makes it likely that demand for both in-person consultation and short 5-10 minute pop-up consultations will increase.

At the same time On Demand requests for immediate access to entertainment, reserves, and computer software, multi-media equipment and editing tools will increase.

<https://www.educationdive.com/news/3-things-to-know-about-the-students-arriving-on-campus-this-month/529723/>

**New students
are projected
to be a unique
blend of high-
touch and
independent.**

Image Courtesy of Erin Colonna,
UNL Libraries



Libraries will need to increase support and resources at a time when libraries continue to be grossly underfunded.

Traditional funding models have proven time and again to be flawed, how then will we fund, staff, and support academic libraries and the communities they serve.



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