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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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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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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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

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.

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

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

- 70 million journal articles
- 1.4 Billion cited references dating back to 1970
- 5,000 journals
- 70,000 books
- 16 million author profiles

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.

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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