USING THE PURDUE LIBRARY DATABASES TO FIND ARTICLES, PAPERS, AND THESES

September 2, 2008
The Databases

• Purpose: To help you find information
• Go to: http://www.lib.purdue.edu
• Under the Search Heading, select the Databases tab.
• From the dropdown menu, select a database.
A Few Good Databases To Try

• Aerospace & High Technology Database (1962 – present)
• Compendex (1884 – present)
• IEEE Xplore (1988 – present)
• Web of Science (1977 – present)
  – Includes a helpful cited reference search
• CRC Handbook of Chemistry & Physics
  – Includes math tables
• Dissertations and Theses
• EI Engineering Village 2
• SAE Aerospace Materials Specifications
• Jane’s All the World’s Aircraft
• This is only a few databases. Try some others on your own.
An Example: Web of Science

• Try the **Advanced Search**
• Interested in finding papers authored by Spalart, so the following is searched: **AU=Spalart**
An Example: Web of Science

- 64 articles were found

<table>
<thead>
<tr>
<th>Set</th>
<th>Results</th>
<th>AU=Spalart</th>
</tr>
</thead>
<tbody>
<tr>
<td>64</td>
<td></td>
<td>Databases=SCI-EXPANDED, SSCI, A&amp;HCI Timespan=All Years</td>
</tr>
</tbody>
</table>

- Click on the 64 to see the articles
An Example: Web of Science

• Here is article 9:

  Title: A new version of detached-eddy simulation, resistant to ambiguous grid densities
  Author(s): Spalart PR, Deck S, Shur ML, et al.
  Source: THEORETICAL AND COMPUTATIONAL FLUID DYNAMICS  Volume: 20  Issue: 3  Pages: 181-195  Published: JUL 2006
  Times Cited: 12

• Click on the article title to get more information:
  – Abstract
  – Number of times cited
  – Citation List

• Link to full text online

• Link—tells where paper version can be found in library or where PDF can be found in online journals. Often has a link to full text

• Notice that article 9 is cited twelve times by others. Click on the 12 to see articles that cite this article
An Example: Web of Science

- Also notice the output bar on the bottom of the article listing

- Allows you to **print**, **email**, or **save** to text file the article listing to keep track of literature searches

- Also allows you to save in **EndNote** or **BibTeX** format (more on slide 20)

- **EndNote** is a program you can get to help organize references

- There are many free programs that use BibTeX format to organize references like **JabRef**
An Example: Web of Science – Cited Reference Search

- Click on **Cited Reference Search**
- Try searching for works that cite the author P.G. Saffman and that are dated between 1985 and 1990
An Example: Web of Science – Cited Reference Search

- This gives a large list of documents that cite P.G. Saffman’s work between 1985 and 1990.

- To search for works that cite a specific article or paper, it is better to look up that article or paper using Advanced Search as in slide 4. Once the article or paper is found, click on the Times Cited link.
An Example: Web of Science

- Web of Science comes with tutorials accessed at http://scientific.thomson.com/tutorials/wok4/
Online Journals

• Purdue subscribes to many journals online. Articles can be downloaded directly from a website if you are using a Purdue computer or one connected to Purdue via VPN
• Go to: http://www.lib.purdue.edu
• Under the Search Heading, select the eJournals tab
• Type in the journal name
• Or search for journals in the A-Z list
Online Journals

- You can enter the journal’s name or search alphabetically.
- Each journal listing shows the range of years of articles available online.
- Example: Search for Journal of Fluid Mechanics
  - Volume 1-329 are available online in Journal of Fluid Mechanics Digital Archive
  - Volume 330-present are available online in Journal of Fluid Mechanics
- To access, click on Link to full text from Cambridge Univ. Press
Online Journals

• Some journals can be accessed directly while on a Purdue computer or connected via VPN to Purdue (more on this later, see https://www.itap.purdue.edu/connections/vpn/)

• Examples
  – AIAA: www.aiaa.org/journals
Google Scholar

- Google has a search engine called Google Scholar that looks for articles and databases.
- http://scholar.google.com
- Nice features
  - Shows papers/articles that cite the searched paper/article.
  - Use the Advanced Search feature
  - If logged onto a Purdue computer or using VPN to Purdue, often articles listed by Scholar have links to full text.
Google Scholar

- **Go to Scholar Preferences**
  - In **Bibliography Manager**, you can set Scholar to give a link to the BibTeX entry for the articles you searched *(great for thesis writing)*. *(More about this on slide 17)*

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**Number of Results**

Google's default (10 results) provides the fastest results.
Display [10] results per page.

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**Results Window**

- Open search results in a new browser window

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**Bibliography Manager**

- Don't show any citation import links.
- Show links to import citations into **BibTeX**.

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Save your preferences when finished and return to search.

(Note: Setting preferences will not work if you have disabled cookies in your browser.)
Google Scholar

• Example: Look for articles by D.J. Tritton with the subject rotation using the advanced search option.
This search finds many articles; some are shown below.

Note the **Cited by** link—links to those who have cited this article.

Note the **Import to BibTeX** link.
Clicking on the **Import into BibTeX** link gives the following:

```latex
@article{tritton2006sad,
  title={Stabilization and destabilization of turbulent shear flow in a rotating fluid},
  author={Tritton, DJ},
  journal={Journal of Fluid Mechanics Digital Archive},
  volume={241},
  pages={503--523},
  year={2006},
  publisher={Cambridge University Press}
}
```

This information can be inserted into your **report**, **paper**, or **thesis bibliography** file if you use **LaTeX** with **BibTeX** to write a document.

For more information on **LaTeX**, see **LaTeX** presentation!

— A great tool for writing reports, theses, articles.
What if a Reference Is Not Available Online?

• Not all references that the Purdue databases or Google Scholar find are available online.

• Don’t be afraid to go to the Siegesmum Engineering Library in the Potter Engineering Center (POTR)
  – They have an extensive collection of journals and conference proceedings on the first floor and basement.
  – Ask the library employees for help. They are friendly and willing to help.
  – Go make copies.

• Example: An article online may be a black and white scan of a document with color, and the color is important. Go see the paper copy at the library.
EndNote: A possibly helpful tool

- **FORMATS** citations for list of references with many choices of style.
  - Cite-While-You-Write
    - Works in **Word** to let you insert citations as you go.
- **MANAGES** references
  - Helps you keep track of articles over the course of a Masters / PhD.
- Endnote stores all of the crucial information for a given article:
  - Bibliographic information, keywords, abstract, link to full text (if available), your own notes, link to pdf copy on your computer, etc.
EndNote

- This software is available on ITAP computer.
- It can be accessed from other computers or home by going to the **remote software site** (more about this later)
  https://goremote.ics.purdue.edu
- You can purchase it from ITAP. Details at
  https://www.itap.purdue.edu/support/licensing/search/list.cfm?agreementId=52
JabRef

- This software is open-source and FREE.
- Manages references like EndNote
- It uses BibTeX format entries to keep track of articles, so it is good if you write reports in \LaTeX{}.
- Get it at http://jabref.sourceforge.net/