Basics of Ethical Research

Jim Van Loon, Science Librarian
Rm. 134 Purdy Library
313-577-6446
jevanloon@wayne.edu

1. WSU Library website: http://library.wayne.edu
2. Research guide for Engineering: http://guides.lib.wayne.edu/engineering

3. Citations and plagiarism:
   • Why we cite (WSULS short video) - https://www.youtube.com/watch?v=1AgTf_gESQI
   • DOSO academic integrity: https://doso.wayne.edu/conduct/academic-misconduct
   • Purdue OWL - Avoiding plagiarism: https://owl.purdue.edu/owl/research_and_citation/using_research/avoiding_plagiarism/index.html

4. Citation styles
   • ASME journal author help: http://journaltool.asme.org/Help/AuthorHelp/WebHelp/JournalsHelp.htm
   • APA Formatting and Style Guide: https://owl.purdue.edu/owl/research_and_citation/apa_style/apa_formatting_and_style_guide/general_format.html

5. Citation examples (ASME style)

6. Creating and formatting citations
   • WSU Library catalog record (books)
   • EBook homepage (ebooks)
   • Article database, journal homepage or Google Scholar (journal article)
   • Free web-based apps like BibMe (any type of material)

7. Citation management tools
   • WSULS online guide to EndNote: http://guides.lib.wayne.edu/endnote?hs=a
   • WSU online guide page to EndNote Online version: https://guides.lib.wayne.edu/endnote/endnoteonline
   • WSU online guide to RefWorks: https://guides.lib.wayne.edu/refworks

2. **Online research guides for patents:**
   - Wayne State University Libraries: [http://guides.lib.wayne.edu/patents](http://guides.lib.wayne.edu/patents)
   - Queen’s University Library: [http://guides.library.queensu.ca/patents](http://guides.library.queensu.ca/patents)
   - Tufts University Libraries: [https://researchguides.library.tufts.edu/patents](https://researchguides.library.tufts.edu/patents)

3. **How to read a U.S. patent:**

4. **Planning the keyword search (brainstorming to describe the invention):**
   (adapted from: Michael Heydorn, USPTO-PTRC, “How to conduct a preliminary US patent search”)

<table>
<thead>
<tr>
<th>What is it?</th>
<th>truck front structure, vehicle front structure, cab front structure, body structure</th>
</tr>
</thead>
<tbody>
<tr>
<td>What does it do?</td>
<td>supports headlamps, grille, hood latch&lt;br&gt;attaches front body to frame (trucks)&lt;br&gt;resists front impact loads</td>
</tr>
<tr>
<td>What is it made of?</td>
<td>hydroformed metal tube&lt;br&gt;variable cross-section</td>
</tr>
<tr>
<td>What is it used for?</td>
<td>truck, car, vehicle</td>
</tr>
</tbody>
</table>

5. **Keyword searching using Google Patents**
   - Basic: [https://www.google.com/?tbm=pts&gws_rd=ssl](https://www.google.com/?tbm=pts&gws_rd=ssl)
   - When you find a relevant patent, note the patent classification: USPC (296/193.06) or CPC (B62D 25/04) for future searching

6. **Google advanced search:**
   - Advanced search URL: [https://www.google.com/advanced_patent_search?](https://www.google.com/advanced_patent_search?)
   - Search by USPC (296/193.06) or by CPC(B62D25/04)
   - Allows search using both classification (296/193.06) and keyword (hydroformed)

7. **USPTO patent searching**
   - Searching patent applications vs. [issued patents](http://patft.uspto.gov/netahtml/PTO/index.html)

8. **NB:**
   - Google “export citation” creates incomplete citation; you’ll need to add the patent number manually.