LANG 2010 - English for Science 1

Please:
- Login to a computer
- Scan your HKUST ID for attendance
- Login to your RefWorks Account

Victoria Caplan
lbcaplan@ust.hk
Pre-Session Activity

Have you ... Registered for a RefWorks account?

• If not... Go here: https://refworks.proquest.com/
  – Use your HKUST email

• Create a new folder “LANG 2010”
  My Folders -> Add a folder

• Open RefWorks and remains active
Hazards - Big & Huge

- What are the hazards?
- How to analyze the problems?
- Are there any risk mitigation plans?

Sichuan Earthquake – 2008
87,150 dead or missing

http://www.info.gov.hk/gia/general/201402/20/P201402200347_photo_1065556.htm

Photo ID: WZY-CN9902 World Bank  https://flic.kr/p/9mPXUY

- Help you research your case study
  - Find, evaluate, & select & cite
  - information (data, ideas, etc)
- Links to Refworks & Help
- Check list is prepared carefully to assist your learning process

Moving beyond writing as 1 Year 1 UG
Becoming more expert & professional!
Your Case Study Report

<table>
<thead>
<tr>
<th>Your Project</th>
<th>Research</th>
</tr>
</thead>
<tbody>
<tr>
<td>Individual project proposal (500 - 600 words)</td>
<td>• Identify <strong>ONE</strong> natural hazard from <a href="http://www.preventionweb.net/english/hazards/">http://www.preventionweb.net/english/hazards/</a></td>
</tr>
<tr>
<td></td>
<td>• <strong>Doing literature search</strong></td>
</tr>
<tr>
<td></td>
<td>• Apply scientific knowledge to analyze the problem with statistical data to illustrate the significance.</td>
</tr>
<tr>
<td></td>
<td>• <strong>Cite sources</strong> <em>(use citation style as required by department)</em></td>
</tr>
<tr>
<td>Final group case study report (2000 - 2500 words)</td>
<td>• Focus on <strong>ONE</strong> natural hazard from <a href="http://www.preventionweb.net/english/hazards/">http://www.preventionweb.net/english/hazards/</a></td>
</tr>
<tr>
<td></td>
<td>• <strong>Doing literature search</strong></td>
</tr>
<tr>
<td></td>
<td>• Propose a minimum of 2 scientific solutions with justifications and recommendations for problem identified</td>
</tr>
<tr>
<td></td>
<td>• <strong>Cite sources</strong> <em>(use citation style as required by department)</em></td>
</tr>
</tbody>
</table>
You will need to cite your sources

You must cite in your case studies - keep track of what you read & watch

- Citation style chosen by your instructor of or dept
  - Examples:
    - American Chemical Society (ACS) style. [ACS style guide, book and video](#)
    - IEEE Style
    - APA Style

What tools?

- [RefWorks](#) (or [Mendeley](#))
  - helps you manage references
  - Helps you format your references
Disaster Example: Hurricane

FILE PHOTO: Hurricane Irma, Hurricane Jose (R) and Hurricane Katia (L) are pictured in the Atlantic Ocean in this September 7, 2017 NOAA satellite handout photo.


Research Plan and Questions

Based on the chosen hazard and think of questions.

Shape the content into a series of research questions

Connect the questions with the information sources, for example:

1. What is the background or history of the problem?
2. What is the implication or importance of addressing this problem?
3. What research could be used to understand the issue or problem?
4. What scientific knowledge could be used to analyze the problem?
5. What scientific knowledge or concepts could be applied to generate solutions?
6. How feasible and practical are the solutions?
7. What is the desirable outcome?
Common Questions

• How to prepare or respond to destructive events like Hurricanes Harvey, Irma, or Maria?
• What drives a hurricane?
• How accurate are hurricane models?
• How do authorities prepare for hurricanes?
• Is this hurricane season a fluke, or should we start planning for more/similar storms?
Information sources:

Specialist encyclopedias & Quick Sources websites

This type of info source helps build a **foundation of knowledge**. With this foundation (base), you can begin to ask & answer useful questions.
1. Go to U-X-L Encyclopedia of Weather and Natural Disasters
2. Search “hurricane”
3. Pay attention to what you find, cause of a hurricane, the effects, etc.
4. Go the section “Words to Know”, and identify useful keywords

Hurricane

- Hurricane Katrina devastates New Orleans, Gulf Coast
- Recent events: Catastrophic hurricanes since 2000
- The components and causes of a hurricane
- The effects of hurricanes
- The human factor
- Hurricanes in the United States
- Technology connection
- For More Information
1. In RefWorks, create a new folder “LANG 2010” for this case study

2. Export reference(s) directly from *U-X-L Encyclopedia of Weather and Natural Disasters*

3. Under Tools -> Select Citation Tools -> RefWorks

4. Move all reference(s) from the Last Imported folder to the “LANG 2010” folder
Export Encyclopedia into RefWorks (3)

Which version of RefWorks would you like to export to?

Export to legacy RefWorks

OR

Export to the new RefWorks

Drag it to LANG 2010
1. Go to InfoSources on your LibGuide
   http://libguides.ust.hk/lang2010/info-sources

2. Choose PreventionWeb
1. Select **Hazards**

2. Choose **Cyclone**

3. Search “**Hurricane Irma**”
1. Manually added news:

2. Select LANG 2010 folder

3. Choose “+”, then “Create new reference”

4. Choose “Newspaper Article”,

5. Key-in citation elements, then click “Save”

The newly added reference will be added to the LANG 2010 folder.
**Manually add Reference into RefWorks (3)**

<table>
<thead>
<tr>
<th>Title</th>
<th>Hurricane Irma highlights the great divide in disaster vulnerability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Authors</td>
<td>Garson Philippa Last name, First name</td>
</tr>
<tr>
<td>Publication</td>
<td>INTEGRATED REGIONAL INFORMATION NETWORKS (IRIN)</td>
</tr>
<tr>
<td>Publish Date</td>
<td>Sep 8, 2017 Edition</td>
</tr>
<tr>
<td>Pages</td>
<td>11-21</td>
</tr>
<tr>
<td>Abstract</td>
<td></td>
</tr>
<tr>
<td>URL</td>
<td><a href="http://www.preventionweb.net/news/view/54853">http://www.preventionweb.net/news/view/54853</a></td>
</tr>
<tr>
<td>Date Retrieved</td>
<td>Sep 13, 2017</td>
</tr>
</tbody>
</table>
Information sources: Importance of Hazard

Quick Sources websites & Specialist Encyclopedia

<table>
<thead>
<tr>
<th>Quick Sources of Disaster Statistics &amp; Facts</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Disaster Data &amp; Statistics - from PreventionWeb</td>
</tr>
<tr>
<td>- Provides info by country or region - like for Hong Kong</td>
</tr>
<tr>
<td>- Disaster Statistics from the United Nations Office for Disaster Risk Reduction (UNISDR) - with links to other sources like</td>
</tr>
<tr>
<td>- EM-DATA - Create data sets based on disaster type, geographic region, etc.</td>
</tr>
<tr>
<td>- Disease Outbreaks - lists by date &amp; year from the World Health Organization (WHO)</td>
</tr>
<tr>
<td>- WHO also has a page on Pandemic &amp; Epidemic Diseases, with sub-pages for diseases, like avian influenza</td>
</tr>
<tr>
<td>- Natural Disaster Statistics &amp; Facts - from Statista (provides some free-of-charge information)</td>
</tr>
<tr>
<td>- World Disasters Reports - annual reports from the Red Cross &amp; Red Crescent</td>
</tr>
<tr>
<td>- Very quick &amp; good source of top 5 disasters for the year, etc.</td>
</tr>
<tr>
<td>- Environmental Indicators - from the United Nations Statistics</td>
</tr>
</tbody>
</table>

This type of info source can also help consider the importance (significance) of the hazard. With this foundation (base), you can begin to ask & answer useful questions.
1. Choose Knowledge base
2. Choose “Disaster Data & Statistics”
3. Search “Americas” in Region/Country
4. Click “Americas - Disaster profiles”
5. Read the “Americas – Disaster Statistics” from EM-DAT and see if you can tell ...
   - Percentage of reported people killed by disaster type
   - Percentage of reported people affected by disaster type
1. Manually added web page: Americas - Disaster Profiles
2. Select LANG 2010 folder
3. Choose “+”, then “Create new reference”
4. Choose “Web Page”, key-in citation elements, then click “Save”
5. The newly added reference will be added to the LANG 2010 folder.
ANALYZE THE HAZARD & FIND SOLUTIONS

Information sources:
- PowerSearch to find scholarly articles & magazine articles
- GooglePatent to Search patents
Use PowerSearch to find Scholarly Articles (1)

1. Go to **PowerSearch** & choose **Primo Central** (articles)

2. Start with keywords: (try using the terminology from **UNISDR terminology on disaster risk reduction**)

3. Make your search: *(hurricane or cyclone) and (intensity or track) and predict*

Click “Full text available” to get full-text
1. Choose “send to” and select Refworks

2. Choose your Refworks version

3. Drag into folder (if you want)
5. Select article(s)
6. Choose “Save to RefWorks”
7. Move the reference(s) from the Last Imported folder to the “LANG 2010” folder
1. Go to **Scopus**
2. Search *(hurricane or cyclone or storm)* and *(intensity or track)*
3. Refine results by years: **Year: 2015 - 2018**
4. Sort the results by **“Relevance”**, and locate article **“Hurricane intensity predictability”**
5. Click **Find@HKUST / View at Publisher** to get the full-text
Use Scopus to find Scholarly Articles (2)

5. Select the article(s) you want to export into RefWorks
6. Choose “Export”, then select “RefWorks”
7. Move the reference(s) from the Last Imported folder to the “LANG 2010” folder
1. A patent is an exclusive intellectual property right granted for an invention.
2. You can search patents from [Google Patent Search](https://www.google.com/patents) or [PatSnap](https://www.patnap.com).
4. What is the method used to reduce the formation of tropical cyclones?
Manually Add Patents into RefWorks

1. Manually added patent: Mitigation of tropical cyclone intensity and damage
2. Select LANG 2010 folder
3. Choose “+”, then “Create new reference”
4. Choose “Patent”, key-in citation elements, then click “Save”
5. The newly added reference will be added to the LANG 2010 folder.
REFERENCING

RefWorks:
- Create a bibliography from a list of references
- Write-N-Cite
LibGuide – Section on RefWorks with Help Videos

LibGuides @ HKUST Library

LANG 2010 - English for Science I: RefWorks

Use RefWorks

- A Library provided software
- Helps you manage your bibliographic references
- Makes it easier to write your papers and thesis
- Available (on campus & remotely) to all HKUST students and staff

There will be special classes on how to use it later in the semester. This User Guide will help you.

1. RefWorks on YouTube - these online videos will walk you through from RefWorks basics to all advance features. For example:
   1. Accessing RefWorks & Creating an Account & Logging in (2 min, 53 sec)
   2. Adding References to RefWorks with Direct Export (2 min 14 sec)
   3. Whole Playlist
Referencing (1) - What is ACS Style?

- Citing References in Text (use either one format)
  - By superscript numbers.¹
  - By italic numbers (2).
  - By author name and year of publication (Finnegan et al., 2004).
- References Lists
  - Example: Book without editors
    Author 1; Author 2; Author 3; etc. Chapter Title. Book Title, Edition Number; Series Information (if any); Publisher: Place of Publication, Year; Volume Number, Pagination.
  - Example: Journal article
    Author 1; Author 2; Author 3; etc. Title of Article. Journal Abbreviation (CASSI). Year, Volume, Inclusive Pagination. e.g. Osterloh, F. Inorganic Materials as Catalysts for Photochemical Splitting of Water. Chem. Mater. 2008, 20, 35–54.
Referencing (2) - FYI –
Install Write-N-Cite on your own laptop or desktop

- Write-n-Cite is a plug-in for MS Word
- Download & Install Write-n-Cite from RefWorks (Tools > Cite in Microsoft Word)
- Make sure to select a compatible version of Write-n-Cite to fit the MS Word.
Create Your Own Citation Styles

1. Select "" on toolbar

2. Select Citation Style Editor.

3. Search “acs” for American Chemical Society (Numeric Superscript)

4. Select Options -> Duplicate

5. Select “My styles” and you will find an instance here.

6. You can edit and modify the instance to fit your purpose.
Create Bibliography from a List of References

1. Select “LANG 2010” Folder.
2. Click “” on toolbar
3. Select Create Bibliography.
4. Search “acs” for American Chemical Society (Numeric Superscript).
5. Select “All references in LANG 2010”
6. Click “Copy to Clipboard” to copy all references in ACS style.
Using Write-N-Cite with MS Word (1)


- Open the word document, select RefWorks on the menu bar. Click “Log In”, then sign in with your RefWorks account, e.g. studentid@connect.ust.hk

- Click Sync My Database if you have added new references since last edit

- Pickup a style (e.g. ACS) or choose from “Select Other Style” -> “My Favorites”
Using Write-N-Cite with MS Word (3)

- **Insert in-text citation:** Move the cursor at an insert point in the document, select "Insert Citation", look up the reference(s) in the LANG 2010 folder.

- **End-of-reference:** Move the cursor to the end of your paper, choose Bibliography Options -> Insert Bibliography

---

**Introduction to Natural Disasters**

A natural disaster is a major adverse event resulting from natural processes of the Earth; examples include floods, hurricanes, tornadoes, volcanic eruptions, earthquakes, tsunamis, and other geologic processes. A natural disaster can cause loss of life or property damage, and typically leaves some economic damage in its wake, the severity of which depends on the affected population's resilience, or ability to recover and also on the infrastructure available.  

An adverse event will not rise to the level of a disaster if it occurs in an area without vulnerable population. In a vulnerable area, however, such as Nepal during the 2015 earthquake, an earthquake can have disastrous consequences and leave lasting damage, which can require years to repair.

---

**References**

1. FM-DAT Americas - Disaster Statistics.  

Feedback & Further Help

Feedback - http://library.ust.hk/ce

Choose today’s session

Help:

• WhatsApp: 9701-1055
• Phone: 2358-6760
• Email: lbref@ust.hk