Fire Safety Engineering

Library information skills class

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ulster.ac.uk
Today’s session

• How can the Library help you?
  - services and resources
  - subject guides and reading lists
  - help and support

• Searching for information
  - planning a search
    - databases and other resources
  - combining terms
    - advanced search techniques
    - subject headings

• Guidance for Referencing and Refworks
Query about Library service? Use the **Induction Subject Guide**
Accessing the Library Online

• Logon to the Portal at portal.ulster.ac.uk using your Username (B00...) and network password.

• Select the Library & ICT tab to open up the Library resources
Key Services – Quick lists to popular services
Query about IT? Visit the Student Experience
If presented with the below screen ignore the Sign in option and instead search for Ulster in the Find your organisation – click on the link and you will then be taken to the resource.
Accessing electronic resources

• You will then be redirected to the Ulster login page.
• Login with your Ulster University email address and Ulster University network password.
• After clicking ‘Sign in’, you will be directed to the electronic resource.
Getting Started
Tailored information for your subject? Visit the Subject Guide
Library Services

Direct link to the Library is also available on Blackboard.
Books, eBook and journals
Books, guidelines and reports
Start with the established information

- **Library Catalogue**
  Fire Safety – 624.92
  Construction – 692-694

- Guidelines and reports
  Go to source, a web search is useful to find reports and policy documents
  e.g. Fire Protection Association – [Helpful Documents](#)
Accessing Books and eBooks
Accessing Books – find them in the main catalogue

You can refine the search in a number of ways, e.g. by campus, format or date.

Click on the book title for more information.
Principles of fire behavior

Quintiere, James C

This text covers the four forms of fire: diffusion flames, spattering, spontaneous combustion, and premixed flames. Using a quantitative approach, the text introduces the scientific principles of fire behaviour, with coverage of heat transfer, ignition, flame spread, fire plumes, and heat flux as a damage variable. Cases, examples, problems, selected colour illustrations and review of mathematics help students in fire safety and investigation understand fire from a scientific point of view.

Book: English.
2nd ed.
Published: Boca Raton: CRC Press, 2017

Available at Jordanstown.
Accessing eBooks – find them in the main catalogue

Refine your search to eBooks
You can then use the onscreen options to browse the Contents, Read Online or Download.
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Downloading and Printing

- You can download many of our eBooks to multiple devices e.g. home pc, mobile phone or tablet for up to 3 days
- However printing is restricted to 10% or 1 chapter under current Copyright Law
Not all of our eBooks have multi user access
If you see the below message, it means that the concurrent user limit for the eBook you are try to access has been reached. You will the need to close the page and try to access it later.
Journals

• Academic journals are published more frequently than books and will give you information on current practice.

• Content includes, general articles, research articles, clinical trials and reviews. Most academic journals **but not all** are peer reviewed.

• Use the E Journals catalogue to search for a specific journal title
Where to look - Journals

Enter the title of the journal into the search box
Subscription dates and other information such as restrictions or embargos are also given.

Click the suppliers name (e.g. ScienceDirect) to access.
You can search within the Journal or browse specific issues.
Document Delivery

• Use the Document Delivery service to order copies of journal articles we do not have a subscription to (including any embargoed titles).

• For more information on this service go to the Document Delivery webpage http://library.ulster.ac.uk/documentdelivery/

• You can also find the link under key services.
The search strategy and advanced search techniques
The Literature Review

• What has already been written?
• Provides context for your research/assignment.
• Identifies main theories, ideas, conclusions and interventions.
• Identifies gaps in the research.
• Identifies main methodologies, research techniques and evaluation tools.
The Search Strategy
Planning the search

- **Question** - what information do you want to find - be specific and stay focused.

- **Identify main keywords** - think laterally, are there alternative terms or synonyms that could be used to describe your topic? How might another person/author describe the same condition/intervention?

- **Where are going to search** - work through each in a systematic manner (e.g. Databases, reference list/cited by, key journals etc.), using the same keywords and limiters.
Where to search?

- Databases
- Books
- Reference and cited by searching
- Key authors and journals
- Other resources
Databases

- Web of Science
- Scopus
- Compendex
- USearch
Database content coverage

- **Web of Science and Scopus**
  - multidisciplinary, covers science, engineering, construction, social sciences and much more.

- **Compendex**
  - Engineering journals, conferences and trade publications.
Other useful sources

Professional bodies, and related agencies

Google Scholar

Interest groups
USearch

- Search the bulk of the Library databases and eJournals all at once.
- Always use the Advanced Search function.
- Good place to start for a scoping search, not robust enough for higher level searching.
General searching concepts

- Combining keywords with OR, AND
- Using truncation to find alternative word endings
- Searching for phrases
OR (means more!)
Increases results - use to combine similar terms

fuel or gas or oil or flammable liquids

Any articles retrieving any of the terms will be found. This will increase the results returned.
**AND**

Reduces results – use to combine different terms

Only articles that include all 3 sets of terms will be retrieved.

This will reduce the amount of results returned.
**Truncation**
Finds word variations – plan*, planning*, planners*
build* building, builds

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(TITLE-ABS-KEY(build*)) AND (plan*)
```
Phrase searching finds terms in the order typed in, directly adjacent to each other.

Example search:

"heat transfer"
Cited by searching

• Found a good article? What impact has it had?
• Scopus, Web of Science and Google Scholar will find this information.
• Open up the times cited number to view further references

A model for fire spread in wildland fuels by-radiation
FA Albini - Combustion Science and Technology, 1985 - Taylor & Francis
...by the upward flow from the burning zone may act to keep the interstitial air temperature near ambient, but Reynolds numbers are too low to increase convective heat transfer rates much above "natural convection" values (Gebhart, 1961). In wind-aided fire spread, or spread up ...
Finding the full text of articles using U Find it
Accessing Full Text

- Most academic databases contain only bibliographic records, in order to access and read the full text we need to link out to another supplier.

- If full text from the databases is available it will be clearly marked e.g.

- If no full text link is available use the U Find It button to link out to one of our other suppliers.
The article will then open with options to read onscreen, save or print.
No full text available online?

• Check the main Library catalogue – we may hold print copies.

• Order a copy of the article using the Document Delivery service. Find the link under Key Services on the Library & ICT tab of the Portal.
Evaluating what you find

• Too little information
  - use broader search terms
  - think of synonyms and alternative keywords
  -- try different combinations of your keywords use the OR connector

• Too much information
  - think about your terms are they too broad
  - think about the topic; can you narrow it to specifics
  - add in limits e.g. population group, publication years
Read each paper you find
assess and judge the relevancy and currency

- Ask:
- What is this paper about?
- Do I trust it?
- What did they find?
- Is it relevant to me?
- Use a critical appraisal tool e.g. **CASP**
Save what you find!
Record complete details of all useful references

• Various ways to do this
  - write them down
  - print the reference
  - save them within the databases (create a personal account)
  - use an online bibliographic management program such as RefWorks
Saving what you find

- Most databases will give you an option to **save your search**, you just need to create a personal account within them.
- E.g. USearch click on Save Searches (find this link under the Search History)

![Image of Search History/Alerts and User Login interface with highlighted options for Save Searches and Create a new Account]
Tip!

• Carry out the search, record and save.
• Filter the results, record and save.

*You may be asked to produce a search strategy at some point.*

• Evaluate what you find: [Writing skills tab](#) on subject guide.
Referencing

- Find more information and a copy of the *Life and Health Sciences Referencing Guidelines - The Harvard System 2015* in the module area on Blackboard Learn.
Off Campus Access

• When accessing journals off campus you may encounter interim password screens even after you have authenticated to Athens.

• Ignore any prompts to enter a password and user name

• Instead look on the screen for ‘OpenAthens Login’, click on this link and this will take you to the journal or article

• For more information and help including videos and screenshots go to the Life and Health Sciences off campus access help page http://guides.library.ulster.ac.uk/LHS/offcampus
If you are having any difficulty accessing material or with searching, contact me using the details below or just ask for me at the Issue Desk.

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