

Research for Arch 126 sustainable case study workshop

Wednesday, January 18th, 2016 10:00-11:00am

SLIDE 1: Intro

Most important Research resources to support your Arch 126 sustainable case study project.

SLIDE 2: What's in the library?

What do we have in the Musagetes Library to help you finish this assignment?

SLIDE 3: INFORMATION

Who had a chance to look over the assignment that Terrie emailed out?

Let's just brainstorm. What will you need in term of research resources to complete the case study?

SLIDE 4: FIND INFORMATION

- 1) Books
 - LEED, building technology, environmental/green design & construction
- 2) UW Library databases
 - journal articles → Avery Index to Architectural Periodicals
 - product literature, case studies → Building Green Suite
- 3) Newspaper articles
 - variety of UW databases & subscription newspapers
- 4) Internet
 - Open web search
 - architect's or architecture firm's website
 - Canada Green Building Council www.cagbc.org
 - US Dept. of Energy Building Catalog <https://buildingdata.energy.gov/home>
 - AIA Committee of the Environment Top Ten Projects <http://aiatopten.org/>

SLIDE 5: AGENDA

- 1) Finding UW Library E-Resources
- 2) Building Green Suite
- 3) Canada Green Building Council website
- 4) US Dept. of Energy Building Catalog
- 5) AIA Committee of the Environment Top Ten Projects
- 6) Avery Index to Architectural Periodicals

SLIDE 6: MUSAGETES LIBRARY WEBSITE

The **Musagetes Library website** is where you should be starting all your research as an architecture student.

- url is <https://uwaterloo.ca/library/musagetes/>, & in case you forget, the link is also available on the SA website.
- For doing research at home, or anywhere not in the School of Architecture building, login to **Get Access from Anywhere**
 - we've provided a link on the Musagetes homepage, & a link to access your library account.

SLIDE 7: WATCARD = LIBRARY CARD

- If you are not in the School of Architecture building, logging into the virtual proxy server through **Get Access from Anywhere** replicates your on-campus experience anywhere
 - You will be able to seamlessly be able to access E-Resources, such as databases & e-books without repeatedly having to authenticate yourself.
 - You can check you account to see how many items you have out, due dates, & renew them.
 - Login is the same, enter your last name (all in lowercase) & your library card barcode, which is the 14 digit number on your card starting with 2118..., not your student number on the bac of your WATcard

DEMO: Finding Architecture E-Resources

- The easiest way to connect to architecture database is to click on the link **Research Resources** on the menu on the left side of the library homepage.

DEMO: Building Green Suite

I wanted to show you **Building Green Suite** because it has Reliable research content on sustainable building practices, and green products. It used to case study examples of green buildings, but unfortunately they radically changed their format recently, and got rid of them.

In the past couple of years I used to really recommend students use Building Green Suite over the web for researching products used in the case study assignment, but the recent changes seem to have reduced the amount of products reviewed, and weakened some of the content.

I still recommend using it, as it has over advantage over the web for researching green products & materials – you don't have try to find what is credible information, & reviews from thousands, or even millions of results.

- Much of the content on the web you'll find about green building practices, & products is supported by advertisers. Content can be influenced by the advertiser or manufacturer that supports the site.

Building Green is an independent company that is supported by subscriptions only, such as the one that is paid by UW Library.

- They offer accurate, unbiased information without influence from commercial agendas.

What I will say, Building Green suite is difficult to search when you compare it to using an academic database like *Avery Index to Architectural Periodicals*. Boolean searching is non-existent here.

DEMO: Building Green Suite Product Literature:

To find information about the green products & materials used in your case study buildings, you have a few options to search products:

- 1) You can search by product name by adding it to this **search field**.
 - a) If your search is a general name, rather than a specific product name, you'll get a list of news articles, guides, feature articles on Portland cement
 - You can filter by content type, selecting **product reviews**, or any other category

- 2) Don't panic when you see that you don't have access to the full article. Though the library does have a subscription to Building Green, you still need sign up to access the full content.
 - a) click **Firm or campus members – click here** at the very top of the page
 - b) the first time, select **Create personal profile**
 - c) fill in your email address, it **must be your uwaterloo email** or the database won't accept it
 - d) your first name,
 - e) and create a password
 - Here is a review of the product
 - and some of these will have a link to the manufacturer's website which you can go to for the specification and technical information

- 3) Another way to find product reviews is to go to the **Sustainable Materials** tab and select **Product reviews**
 - here you can filter the results to just get product reviews
 - you get a list of reviews (title and a brief summary), but I haven't found a great way of searching these

- 4) Lastly, you can access product information by going to the "Product guidance" tab
 - a) The products are grouped by categories with you can click on to select
 - You will basic overview or what Building Green calls insights of the product or material category
 - b) To actually get to the products click **Find Building Green Approved products in this category**
 - c) I always **open this link in another tab** since you'll be redirected to **Designer Pages Plus**,
 - a collection of over a 1000 products complied and approved by BG for sustainable building
 - d) you can scroll over the different carpet images, hovering over them will reveal the name
 - e) clicking on a specific product image will bring up the product page on it that provides:
 - a link to the manufacturer's website
 - complete specs
 - eco specs
 - installation guidelines
 - maintenance guideline
 - testing documents
 - links to similar or associated products
 - while in Designer pages, you can always **Browse Products** under this tab
 - or search by product name in their search box
 - Be warned, I don't find the searching in here works very well

DEMO: Building Green Suite Articles:

- 1) In addition to using the search box, you can access website articles on different topics under the various tabs and selecting on of the many subtopics
 - Again you'll just get a list of titles which a brief summary, but you can filter them by type.
 - These all have a **printer friendly version at the end of each article** which you can print as PDFs to store on your computer

- 2) You can also download articles from the *BuildingGreen Report* (formerly *Environmental Building News* though the change in name only happened in 2017) by clicking on "**Download Issues**" in the corner

- I haven't found a way to search these, only selecting by publication year and month
- The content of issues is organized around a them just briefly described, and when you click on the **Download PDF** link you get the whole issue

Because of the changes to Building Green, and it no longer being an exhaustive list of product materials, you'll likely not find everything you are looking for on green products and building practices, so you also have to use the internet, manufacturer's website, and the library

DEMO: Canada Green Building Council website: www.cagbc.org

To achieve LEED certification, buildings are scored by attributes such as water efficiency, materials & resources, & indoor environmental quality.

- Since you are an evaluating the project in terms of its LEED rating, you'll need to include how your building scored in each of these areas.
 - This information is available publically through the Canada Green Building Council website. Go to www.cagbc.org:
 - To search for your case study building, to go the **LEED tab**, & select project profiles from the pull down menu.
 - Enter your project name in the Key word search box The result(s) are at the bottom of the webpage.

There is a brief description of the project, & LEED certification level it achieved—in this case gold.

- You can **View the Project Scorecard** which breaks down why it achieved the level it did. You can also down load it.
- **Don't select a project that doesn't have a LEED Scorecard, as it is required for the assignment**

DEMO: Example Case Studies

Building Green Suite used to have case studies of building project very similar how Terri wants you to do your assignments. They could be used as example for the kind of content Terri is looking for, and how to format your case study.

I'm going to show two alternates website you can look for examples.

DEMO: US Department of Energy Building Catalog

The US Department of Energy has a Building Catalog of Case Studies of High Performance Buildings (<https://buildingdata.energy.gov/>).

- There are different categories you can browse, or you can try searching by project type.
 - It seems the older case studies are more thorough, and closet to what Terri is looking for your assignment.
 - by clicking on the various categories from this menu, you can see what has been written in each section

DEMO: AIA Committee of the Environment Top Ten Projects

Each year the American Association of Architects' Committee on the Environment selects ten projects each year for their Top Ten awards. The projects are judged by their building performance, and how green they are.

All the winning project from 1997 to 2016 are document on this website (<http://aiatopten.org/>) with a thorough case study of each.

- There is no way to search this list of awarded project.
 - The search box in the tope left corner searches the whole AIA website. The only way to search for example projects is to go through them by year.
 - Some of the projects are located in Canada, and are by Canadian Architects
 - Each building profile includes photos, and then a review of how it performs along certain performance criteria.

DEMO: Avery Index to Architectural Periodicals

The Avery Index to Architectural Periodicals includes records for *Canadian Architect*, & *GreenSource: the magazine of sustainable design*, & other journals, which will be great resources for your assignment.

- Go to back to the **Musagetes Library website**, & click on **Research Resources** in the side menu

To search for article on your building name into the first search box, & keep the search type to **ANYWHERE**

- Putting quotation marks around the name turns it into a phrase & tells Avery to only pull up article records that contain both those words & only in that order
- Always use the **Advanced Search** option (which is the default landing page for Avery Index)
 - **do not** use the “Basic Search” (it doesn’t have any search filters) or “Command Line” options (that’s just for librarians)

The majority of architecture journals & magazine are still print only. Avery is an index, which means it has citation to articles only, not the full text of articles itself.

You have to see if we have the journal in our print or electronic collections:

- b) Some journals like *Canadian Architect* are online, & available through other databases we subscribe to
 - We’ve made it easy for you. Click on the **Get It! Waterloo** link to check for availability
 - If your article is available electronically, in this resolver window you see a list of databases which it can be found in.
 - Click on one of them to access the full text, that can be printed, downloaded as a PDF, or emailed
- c) If the article you want is in a print only journal you are looking is in print only, when you click on the **Get It! Waterloo**, you wont see any links to databases.
 - Make sure you note the page numbers of the article, issue & month, year or volume of the journal.
 - Click on this first link check the holding in the print collections. **PRIMO** is the brand name of the Library catalogue.
 - You will be directed to the catalogue record of the entire journal.
 - Opening the **Locations & Details** tab will tell you what library collects the journal, & if a particular issue you are looking for is checked in, or signed out to another student.
 - Journals in Musagetes are shelved by **call number**, so make note of it.
 - Sometime the library is missing an issue or two for any variety of reason, so double check that the issue you are looking for is available by clicking on this

- plus sign clicking on **View all items**.
 - We bind multiple issue together of older journals
- you'll have to come in person to the Musagetes Library to find the journal issue on the shelf, & photocopy or scan your article.
- But, the journals you'll most likely be looking at, *Canadian Architect*, & *GreenSource*, are available online through that **Get It! Waterloo** link.

DEMO: Images in Avery

Referring to images, & studying plans, sections, site plans of already built & conceptual projects from other architects is a significant research activity in architecture, & you'll likely want to analyze your building's layout & construction details for this assignment.

- Though Avery won't have these images, you can filter your results to identify articles that will have the visual content you need.

Do a keyword or "ANYWHERE" for your project in the first search box, eg. "royal ontario museum"

- If you'd like to retrieve articles that contain a specific type of illustration such as plans, elevations, sections & details you can use the **Documents Feature** limits to do that
 - a) Scroll down to **Documents Feature** & select all the illustration types that apply from the menu
 - **Tip:** don't be too specific in the types of images or drawing you select, & always select **Drawings** to avoid missing relevant articles
 - b) In an article record the **Documents Feature** will indicate if the article contains photos, models, computer drawings, axonometric drawings, details, elevations, et cetera.
 - Lately I've been seeing the option to download the PDF directly in Avery for some articles available electronically.
 - Most the t time you still have to use the **Get it & Waterloo** link to retrieve the article from another database if its available electronically,
 - or to locate the print copy on the shelf if it's only in print which describes most of the periodical literature in architecture

I'll be coming back in two weeks (**January 31, 2018**) to go over Academic Integrity and how to cite all the different formats of information you'll be referencing in your case study assignment.

So that's it. If you need help with research for this or any other assignment or studio project, please come visit the library, email or come see me.