Outside the Box : *IBISWorld*

At UAH, we place an emphasis on collaboration at all levels of research, for students and faculty alike. The College of Engineering and College of Business Administration continue to serve as great examples of this initiative in action. Courses such as **New Product Development** or the **Cybersecurity** program often appeal to students in both business and engineering, as there is a necessary collaboration of skill sets involved from disciplines in these two colleges. *IBISWorld* is a new marketing database we have access to, providing industry level analysis on emerging market trends, supply chain information, and potential applications. If you are experimenting with new materials or applications for 3-D printing technology, for example, you might want to check out their reports on **3D Printing** or **3D Printers**. Give it a shot!

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Contact your librarian with questions or comments about your resources! To see a complete listing of Engineering databases, check out our LibGuide at:

http://libguides.uah.edu/databases/engineering

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SALMON LIBRARY PRESENTS

DATABASE SPOTLIGHT :

ENGINEERING

Getting the most out of your e-resources

FALL 2016

ASTM INTERNATIONAL

While UAH has had limited access in the past to the Standards within the *American Society for Testing and Materials*, a partnership between the three UA system campuses has greatly expanded our capabilities to utilize *ASTM* content going forward. Our previous model of access was minimal, with a limited number of downloads per year for our campus. We now subscribe to the whole *ASTM* suite, with **unlimited simultaneous users and unlimited downloads**. This resource, now referred to as *ASTM Compass*, functions much like our other periodical databases. You no longer have to contact one of the librarians to download a Standard or other document for you, as we did in the past. The new and improved platform allows you to search more efficiently by topic, title, author, or even by a Standard's classification number if you know it. New, built-in tools allow you to make annotations and create alerts for new reports. In addition to the Standards, we now have a handful of *ASTM* published journals such as *Cement, Concrete and Aggregates*, *Journal of Testing and Evaluations*, and the *Geotechnical Testing Journal*. These journals are all found on the *ASTM Compass* platform, as well as indexed in our electronic resources knowledge base, meaning they will be discoverable in *OneSearch*. Take a look and see what new content you can explore.

Web Searching Quick Tip:

We all use the open web at some point in our research process, but using it "effectively" and "efficiently" is often a much more challenging ordeal when it comes to academic research. Still, there are certainly going to be resources that either fall outside of Salmon Library's subscriptions, or are just more accessible via a Google search. If basic searching is failing you, try focusing on the domain types that host certain information. If you're trying to find some more scholarly info, you might want the "**.edu**" sites. For government collected/archived data, you probably want the "**.gov**" sites. Say you're looking for information on **stochastic stability**, and you are striking out at your usual research stops. Add the terms "**site:.org**" or "**site:.edu**" to your search string in Google, and see if your results are noticeably different. Try typing **stochastic stability site:.gov** into your browser, then **stochastic stability site:.org**. Take note of how the results differ. What will a **site:.edu** search do here? Try it and see!

Another new addition for us this year is the *Cambridge Crystallographic Data Centre*, or *CCDC*. This database will be especially beneficial to the Chemical Engineering department. The *CCDC* is the home of small molecule crystallography data and is a leader in software for pharmaceutical discovery, materials development, research, and education. The **Cambridge Structural Database (CSD)** serves as the core data repository the resource is built on, comprised of experimentally determined organic and metal-organic crystal structures. You can find the database listed in both our Chemistry and Chemical Engineering LibGuides; however, there is also a suite of *CCDC* software installed on certain PCs within the Information Arcade at Salmon Library. It's installed as **CSD-Enterprise**. While the database itself will serve most needs, this robust software allows for more in-depth structural analysis. Ask a librarian to learn more.

Did You Know…?

***Journal Citation Reports* ranks the *Journal of Hazardous Materials* as having the second highest Impact Factor in the category of Civil Engineering publications for 2015; however, this journal was cited more than any others in its category by far, bringing in over 69,992 citations last year. Visit *JCR* or reach out to your librarian to learn more about these metrics and how they impact your research!**

UAH's Full Text Finder

At Salmon Library, we've had the ability to browse our electronic periodical collection for some time. However, the process of locating and accessing that information has improved over the years, and EBSCO's new **Full Text Finder** enhancements over the past year or so have brought some welcome changes to that experience. On the library homepage at www.uah.edu/library, click on the **Journals** tab. You will see a page with a search box, but also a **Browse by Discipline** section taking up 3/4 of the screen. This allows you to browse for a list of periodical titles in our collection based on broad subject classification. This may not catch every title, but it will catch many under these umbrella headings such as **Architecture** or **Power & Energy**. Additionally, you can now search within a journal itself, allowing you to extract all the articles from across the publication of a journal mentioning your search terms.

Salmon Library is proud to announce that we now have access to several publications from the *American Institute of Aeronautics and Astronautics*, a premier provider of information on aerospace technology, engineering, and science. Our holdings represent the core journals of the *AIAA*, such as the *Journal of Aircraft*, the *Journal of Propulsion and Power*, the *Journal of Thermophysics and Heat Transfer*, and of course the organization's flagship title, *AIAA Journal*. When you link out to the *AIAA* content, you'll notice that it is hosted on a portal called *Aerospace Research Central* or *ARC*. This serves as a host for all of *AIAA*'s content, which includes standards, books, and other publications. However, for the most part, UAH only has access to certain journals here, so while you can explore a great deal of content, take note that we have access to only the current titles under the **Journals** tab. For any other documents you may encounter at the *ARC* portal that we don't have full text permissions to, feel free to use the **Interlibrary Loan** option under **Quick Links** at uah.edu/library. We may not be able to obtain every item, but we will give it a shot! Explore *AIAA* to discover how their journals can benefit your research.

IEEE Xplore Digital Library has been a highly used research tool for our faculty, students, and researchers for quite some time. This collection provides access to more than three-million full-text documents from some of the world's most highly cited publications in electrical engineering, computer science and electronics. More than two-million documents are in robust, dynamic HTML format. Although UAH's *IEEE* subscription already provides us with over 170 journals, 1400 conference proceedings, and 5000 technical standards, this resource just got better. An enhancement called *Smart Grid,* a portfolio of smart-grid related intelligence, is now a part of our *Xplore* subscription. These documents are meant to address new challenges and applications for technology by providing projections of where a given "smart grid" will evolve to, as well as areas where additional research is needed. There are five primary modules covered in the *Smart Grid* enhancement: **Power**, **Computing**, **Communications**, **Control Systems**, and **Vehicular Technology**. Each module essentially covers a "technology sector" in the form of content types called **Long-term Vision Documents**, **Reference Models**, and **Roadmap Documents.** Visit the updated *IEEE Xplore Digital Library* today to learn more!