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WEBLINKS**

**CHEMICAL ENGINEERING**

**DECEMBER 2016**

## ***Introduction***

***Weblinks*** are lists of internet resources on a particular subject.

***Weblinks*** are basically compiled by the Reference Librarian to assist the students in their search of information through internet resources. Most links are free; some requires fees for usage or access of information.

***Please use your best judgment when reviewing the information contained within the links.***

For comments and suggestions on this Weblinks, please send to Ms. Adoracion L. Ventura at **[aventura@adamson.edu.ph](mailto:aventura@adamson.edu.ph)** or contact her at Telephone number 524-20-11 local 131.

### **ABC-CHEMISTRY: FREE CHEMICAL INFORMATION**

<http://abc-chemistry.org/>

[Retrieved December 12, 2016]

Provides directory of free full-text journals in chemistry. A researchers' guide to journals.

### **AMERICAN CHEMICAL SOCIETY**

<http://acswebcontent.acs.org/home.html>

[Retrieved December 2, 2016]

The home page provides information on membership services, meetings, publications, career services, scholarships and grants, and committees.

### **AMERICAN INSTITUTE OF CHEMICAL ENGINEERS (AIChE)**

<http://www.aiche.org/about/>

[Retrieved December 13, 2016]

AIChE is the world's leading organization for chemical engineering professionals, with more than 50,000 members from over 100 countries. AIChE has the breadth of resources and expertise you need whether you are in core process industries or emerging areas, such as translational medicine.

### **AMERICAN SOCIETY FOR NONDESTRUCTIVE TESTING**

<https://www.asnt.org/>

[Retrieved December 7, 2016]

The American Society for Nondestructive Testing, Inc. (ASNT) is the world's largest technical society for nondestructive testing (NDT) professionals. Through this organization, it provides a forum for exchange of NDT technical information; NDT educational materials and programs; and standards and services for the qualification and certification of NDT personnel. ASNT promotes the discipline of NDT as a profession and facilitates NDT research and technology applications. Membership is required.

### **ASSOCIATION OF CONSULTING CHEMISTS AND CHEMICAL ENGINEERS**

<http://chemconsult.org/>

[Retrieved December 14, 2016]

The Association of Consulting Chemists and Chemical Engineers (ACC&CE) is a non-profit membership organization serving the chemical consulting needs of prospective clients and its members since 1928. The purposes of the organization are to offer prospective clients a "clearing house" which they can use to find the most qualified consultants or team of consultants to solve their particular problem, and to furnish support to its members as they conduct their consulting practices. Members provide broad chemical and chemical engineering expertise including industrial processes, environmental, cosmetics, insurance and expert legal and litigation assistance.

## **AUSTRALIAN JOURNAL OF CHEMISTRY**

<http://www.publish.csiro.au/?nid=51>

[Retrieved December 7, 2016]

Australian Journal of Chemistry - an International Journal for Chemical Science publishes research papers from all fields of chemical science. Papers that are multidisciplinary or address new or emerging areas of chemistry are particularly encouraged. Thus, the scope is dynamic. It includes (but is not limited to) synthesis, structure, new materials, macromolecules and polymers, supramolecular chemistry, analytical and environmental chemistry, natural products, biological and medicinal chemistry, nanotechnology, and surface chemistry.

## **CAS: WORLD'S AUTHORITY FOR CHEMICAL INFORMATION**

<http://www.cas.org/>

[Retrieved December 14, 2016]

Chemical Abstract Service (CAS), a division of the American Chemical Society, is the only organization in the world whose objective is to find, collect and organize all publicly disclosed substance information. The organization build and maintain the world's largest collection of molecular substances, reactions, and related content that is vital to the work of researchers.

## **CHEMICAL ELEMENTS -- AN INTERACTIVE PERIODIC TABLE OF ELEMENTS**

<http://www.chemicalelements.com/>

[Retrieved December 15, 2016]

Interactive Periodic Table based on element name, atomic number, atomic mass, boiling and melting points, date of discovery, and crystal structure. It also explains each element as well as the different element groups.

## **THE CHEMICAL ENGINEERS' RESOURCE PAGE**

<http://www.cheresources.com/>

[Retrieved November 18, 2016]

"Includes links to experts, discussion of optimization of chemical processes, design and laboratory reports (complete, online examples), spreadsheet solutions, some links to other useful sites, and an answer to "why become a chemical engineer."

## **CHEMISTRY JOURNAL ON THE INTERNET**

<http://www.chemistrymag.org/>

[Retrieved November 17, 2016]

An international and interdisciplinary journal of chemistry. Sponsored by Department of Chemical Science of Natural Science Foundation of China, Beijing.

## **CHEMISTRY QUICK FACTS**

<http://www.chemistry.patent-invent.com/chemistry/index.html>

[Retrieved December 7, 2016]

Get the facts on the elements, listed alphabetically, by density, atomic number, melting and boiling points or electron configuration. Also contains quick guides to noble and precious metals and radioactive elements.

## **COMBINATORIAL CHEMISTRY REVIEW**

<http://www.combichemistry.com/>

[Retrieved December 15, 2016]

Combinatorial chemistry is a new and exciting chemical methodology that influences all forms of chemistry, especially the discovery and creation of new pharmaceuticals. This site gives a detailed introduction and explanation to its different components. The aim of this project is to provide a basic introduction to the field of combinatorial chemistry describing the development of major techniques and some applications.

## **DIRECTORY OF OPEN ACCESS JOURNALS**

<http://www.doaj.org/>

[Retrieved December 15, 2016]

DOAJ is a community-curated online directory that indexes and provides access to high quality, open access, peer-reviewed journals. The Directory of Open Access Journals is hosted and maintained by Lund University Libraries (Sweden). The database provides access to quality controlled scientific Open Access Journals covering several subject areas. Currently 9,408 journals are searchable at article level. As of today 2,377,760 articles are included in the DOAJ service.

## **ENGINEER GIRL!**

<http://www.engineergirl.org/>

[Retrieved December 4, 2016]

The EngineerGirl website is designed to bring national attention to the exciting opportunities that engineering represents for girls and women. The site is a service of the National Academy of Engineering (NAE) and grew out of the work of the NAE Committee on the Diversity of the Engineering workforce. The NAE also sponsors engineering programs aimed at meeting national needs, encourages education and research, and recognizes the superior achievements of engineers. The purpose of the NAE is to promote the technological welfare of the nation by marshaling the knowledge and insights of eminent members of the engineering profession.

## **ENI.G: PERIODIC TABLE OF THE ELEMENTS**

<http://www.periodni.com/>

[Retrieved December 11, 2016]

Periodic Table of Elements presented in 6 languages: German, English, French, Croatian, Italian and Spanish with in depth information for each element. Includes a scientific and molecular weight

calculator. Offers printable PDF materials.

### **E-POLYMERS**

<http://www.e-polymers.org/>

[Retrieved December 7, 2016]

This site specializes in providing the latest information and news related science and technology. Its goal is to help enrich the lives of their readers by providing high quality content curated from the top sources on the internet. The site focuses primarily on topics related science, technology and the occasional software.

### **ENVIRONMENTAL WORKING GROUP**

<http://www.ewg.org/>

[Retrieved December 7, 2016]

Environmental Working Group empowers people to live healthier lives in a healthier environment. The group drives consumer choice and civic action with breakthrough research and an informed public.

### **EXPLORING MATERIALS ENGINEERING**

<http://www.engr.sjsu.edu/WofMatE/>

[Retrieved December 1, 2016]

Basic overview of various classes of materials including metals and alloys, ceramics, semiconductors, and polymers. Features information about their structure as well as graphic models depicting the structures.

### **THE EXTENSION TOXICOLOGY NETWORK (ETOXNET)**

<http://extoxnet.orst.edu/>

[Retrieved November 18, 2016]

Provides pesticide information profiles, toxicology information briefs, news about toxicology issues, and resources for toxicology information. It is searchable by keyword or partial word.

### **FEDERATION OF ASIAN CHEMICAL SOCIETIES**

<http://www.facs-as.org/about/>

[Retrieved December 8, 2016]

Official website of Federation of Asian Chemical Societies (FACS), a federation of 28 chemical societies of countries and territories in the Asia Pacific whose membership consists of individual qualified chemists. Individual chemists in the Asia Pacific may become individual members of the Federation. The general objective of the Federation is to promote the advancement and appreciation of chemistry and the interests of professional chemists in the Asia Pacific.

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## **GLOSSARY OF CHEMICAL TERMS**

<http://www.chem.purdue.edu/gchelp/gloss/terms.html>

[Retrieved December 7, 2016]

Need to find a definition for a chemistry term? If so, here is a great site that has it all from A to Z. You can simply browse or do search for a specific word.

## **GREATEST ENGINEERING ACHIEVEMENTS OF THE TWEN-TIETH CENTURY**

<http://www.greatachievements.org/>

[Retrieved December 4, 2016]

The greatest engineering achievements website celebrates a remarkable century of technological achievement. The website contains detailed historical information, timelines, and personal essays by key innovators of each twenty major engineering accomplishments of the 20<sup>th</sup> century. The content for the site is adapted from the 2003 book, *A Century of Innovation: Twenty Engineering Achievements that Transformed Our Lives*. The book was developed through a project initiated by the National Academy of Engineering.

## **HOUSEHOLD PRODUCTS DATABASE: HEALTH AND SAFETY INFORMATION ON HOUSEHOLD PRODUCTS**

<http://householdproducts.nlm.nih.gov/index.html>

[Retrieved December 15, 2016]

This site provides facts about common household products. This database links over 16,000 consumer brands to health effects from Safety Data Sheets (formerly Material Safety Data Sheets), provided by manufacturers and allows scientists and consumers to research products based on chemical ingredients.

## **INSTITUTION OF CHEMICAL ENGINEERS**

<http://www.icheme.org/>

[Retrieved November 11, 2016]

The Institution of Chemical Engineers (IChemE) is the global professional membership organization for chemical engineering professionals and anyone involved with the process industries, including the emerging bioprocess sector. With over 44,000 members in over 120 countries, IChemE is the only organization that awards the internationally re-cognized qualifications of Chartered Chemical Engineer and Professional Process Safety Engineer. The institute set the standards for chemical and process safety engineering professionals.

## **INTUTE: ENGINEERING**

<https://www.jisc.ac.uk/website/legacy/intute>

[Retrieved December 3, 2016]

Intute: Engineering provides free access to high quality resources on the Internet. Each resource has been evaluated and categorized by subject specialists based at UK universities. **Intute closed in July 2011.**

## **IPCS INCHEM**

<http://www.inchem.org/>

[Retrieved December 15, 2016]

IPCS INCHEM consolidates a wide variety of information produced by a number of international bodies whose goal is to assist in the sound management. IPCS INCHEM is an invaluable tool for those concerned with chemical safety and the sound management of chemicals. Produced through cooperation between the International Programme on Chemical Safety (IPCS) and the Canadian Centre for Occupational Health and Safety (CCOHS); IPCS INCHEM directly responds to one of the Intergovernmental Forum on Chemical Safety (IFCS) priority actions to consolidate current, internationally peer-reviewed chemical safety-related publications and database records from international bodies, for public access.

## **JOURNAL OF THE BRAZILIAN CHEMICAL SOCIETY**

<http://jbcs.sbq.org.br/>

[Retrieved December 7, 2016]

The Journal of the Brazilian Chemical Society embraces all aspects of chemistry except education, philosophy and history of chemistry. It is a medium for reporting selected original and significant contributions to new chemical knowledge.

## **MATERIAL SAFETY DATA SHEETS**

<http://jrm.phys.ksu.edu/Safety/msds.html>

[Retrieved December 04, 2016]

A guide to finding MSDSes in various locations on the Internet. A MSDS contains basic information about a chemical substance, its known hazardous effects, and safety and handling instructions.

## **MEDLINEPLUS: CHEMICAL EMERGENCIES**

<http://www.nlm.nih.gov/medlineplus/chemicalemergencies.html>

[Retrieved December 1, 2016]

This site provides high-quality information about chemical weapon and other chemical hazard health issues, including latest news, overviews, specific conditions, and related links. From the U.S. National Library of Medicine and the National Institutes of Health.

## **NATIONAL HISTORIC CHEMICAL LANDMARKS**

<https://www.acs.org/content/acs/en/education/whatischemistry/landmarks.html>

[Retrieved November 17, 2016]

Chemistry came of age as a science in the late 1700s—the same time key came of age as a nation. Over the next two centuries, chemists played key roles in expanding the frontiers of knowledge, advancing medicine and industry, and creating products from penicillin, plastics and much more. This site discusses these items and the roles chemists played in "expanding the frontiers of knowledge."



## **NATIONAL SOCIETY OF PROFESSIONAL ENGINEERS**

<http://www.nspe.org/>

[Retrieved November 17, 2016]

The National Society of Professional Engineers (NSPE) is the only engineering society that represents individual engineering professionals and licensed engineers (PEs) across all disciplines. Founded in 1934, NSPE strengthens the engineering profession.

## **NIST CHEMISTRY WEBBOOK**

<http://webbook.nist.gov/>

[Retrieved November 17, 2016]

"The NIST WebBook will provide access to the full array of data compiled and distributed by NIST under the Standard Reference Data Program. The NIST Chemistry WebBook contains: Thermochemical data for over 7000 organic and small inorganic compounds and more...

## **ORGANIC CHEMISTRY PORTAL**

<http://www.organic-chemistry.org/>

[Retrieved November 18, 2016]

A site which offers an overview of recent topics, interesting reactions, and information on important chemicals for organic chemists. It also includes all about organic chemistry, including searchable collection of formulae, recent news from scholarly journals, and reviews of organic chemistry books.

## **ORGANIC WEB LINKS**

<https://www.organicdivision.org/links.html>

[Retrieved November 18, 2016]

This website contains links that will take you off the ACS Organic Division's Website. The links to these websites are provided as a service to the organic chemistry community. They are not an endorsement by the Division

## **PERIODIC TABLE OF THE ELEMENTS**

<http://www.theodoregray.com/PeriodicTable/>

[Retrieved November 17, 2016]

A fun site covering the construction and history of a "literal" (it's designed as a wooden table) periodic table. Click on any tile to see more about the element with links to more sites for reports and, in some cases, samples of the element.

## **PHILIPPINE INSTITUTE OF CHEMICAL ENGINEERS (PIChE)**

<http://www.pichenet.org/>

[Retrieved November 11, 2016]

PIChE is the organization that is committed to the continual development of all its members in order to make them become globally competitive. Provides updated news about the activities of the institute and the services they offer to their members. More important, you can dialogue with them on relevant issues affecting PIChE and the practice of their profession through their **forum** site.

## **READE ADVANCED MATERIALS**

<http://www.reade.com/>

[Retrieved November 17, 2016]

Follow the Resources link to find significant reference and educational information from Reade, a commercial chemicals company. Includes background briefings on particles, molecules & angstroms, a large MSDS safety library, dust explosion safety information.

## **SAFETY AND CHEMICAL ENGINEERING EDUCATION**

<http://www.sache.org/>

[Retrieved November 17, 2016]

The Safety and Chemical Engineering Education (SAChE) program, initiated in 1992, is a cooperative effort between the Center for Chemical Process Safety (CCPS) and engineering schools to provide teaching materials and programs that bring elements of process safety into the education of undergraduate and graduate students studying chemical and biochemical products and processes. These materials may also be suitable for training purposes in an industrial setting

## **SALTWORKS SALT RESOURCE AND EDUCATION CENTER**

[http://www.saltworks.us/salt\\_info/salt\\_info.asp](http://www.saltworks.us/salt_info/salt_info.asp)

[Retrieved November 17, 2016]

This site provides information about the history and uses of salt. Discusses the chemical properties of pure sodium chloride (NaCl), the uses of salts for human health (such as salt baths), the purposes of salt in foods, a reference guide to gourmet sea salts, and more.

## **SciFinder : THE CHOICE FOR CHEMISTRY RESEARCH**

<http://www.cas.org/>

[Retrieved December 14, 2016]

SciFinder is a research discovery application that provides unlimited access to the world's most comprehensive and authoritative source of references, substances and reactions in chemistry and related sciences. It offers a one-stop shop experience with flexible search and discover options based on user input and workflow.

## **SCIENCE AND ENGINEERING ENCYCLOPEDIA**

<http://www.diracdelta.co.uk/>

[Retrieved November 04, 2016]

Definitions of science and engineering terms and math terms. Calculation help available.

## **THE SCORECARD: THE POLLUTION INFORMATION SITE - CHEMICAL PROFILES**

<http://www.scorecard.org/chemical-profiles/index.tcl>

[Retrieved November 17, 2016]

Scorecard provides detailed information on more than 11,200 chemicals, including all the chemicals used in large amounts in the United (Chemical Abstracts Service or CAS registry number).

## **SOCIETY OF PETROLEUM ENGINEERS**

<http://www.spe.org/>

[Retrieved November 17, 2016]

The Society of Petroleum Engineers is the largest individual-membership organization serving professional engineers, scientists, and managers in the exploration and production (E&P) segments of the worldwide oil and gas industry.

## **SUBSTECH: SUBSTANCES AND TECHNOLOGIES**

<http://www.substech.com/>

[Retrieved December 8, 2016]

Contains illustrated articles about materials engineering, materials properties, applications and manufacturing technologies written by experts in the field.

## **THE TECHNICAL ASSOCIATION OF THE PULP AND PAPER INDUSTRY**

<http://tappi.org/>

[Retrieved November 4, 2016]

TAPPI is the leading association for the worldwide pulp, paper, packa-ging, and converting industries and publisher of Paper360° and TAPPI JOURNAL. Through information exchange, trusted content, and networking opportunities, TAPPI helps members elevate their performance by providing solutions that lead to better, faster, and more cost-effective ways of doing business.

## **WEBELEMENTS PERIODIC TABLE**

<http://www.webelements.com/>

[Retrieved November 17, 2016]

Contains the periodic table and information on each element, including historical background, uses, compounds, electronic and physical properties, and more.

## **WWW CHEMICALS**

<http://www.chem.com/>

[Retrieved November 11, 2016]

Search engine of chemical catalogs. Allows searching by chemical name, CAS number, field of expertise, molecular formula, etc.

## **ELECTRONIC RESOURCES**

### **GALE VIRTUAL REFERENCE LIBRARY**

<http://go.galegroup.com/ps/start.do?p=GVRL&u=adamson>

Provides various titles of e-books of various subjects. Gale Virtual Reference Library (GVRL) is limited to students, faculty, and administrators of Adamson University.

### **KNOVEL**

<https://app.knovel.com/web/>

Knovel is a web-based application that integrates trusted technical information with optimized search for engineers and interactive data analysis tools. Adamson University Library subscribes to thirteen (13) technical references consisting of Three Thousand Two Hundred Thirty Eight (3,238) book titles.

### **SCIENCE DIRECT**

<http://www.sciencedirect.com/>

A leading full-text scientific database offering science, medical and technical (STM) journal articles and book chapters from more than 2,500 peer-reviewed journals and over 30,000 books. There are currently more than 11 million articles/chapters, a content base that is growing at a rate of almost 0.5 million additions per year with archives that reach as far back as 1823.