Welcome to this Online Workshop!

The purpose is to review *hands-on methods using electronic resources for finding access to information* on a certain topic or subject in the area of *Industrial Engineering*, whether that access be available in the form of:

1) *citations* to information—basic information needed to locate a specific journal article: author of the article, title of the article, title of the journal or magazine, volume, issue, date, and page, or
2) to *full-text* information.

The session includes access to citations to information, or the information itself, whether found:

1) in the *library*
2) *online* through *library subscribed databases*
3) available through the *Internet*, the *Library Home Page*, or *my Home Page*.

Industrial Engineering subjects related to Facilities Design to be used as examples: *facilities design, including site selection and location, manufacturing facilities, office space*.

Instruction is for locating access to citations and/or the information itself from computer terminals on campus. This presentation is setup for the *Netscape Navigator* browser which is the choice for the Library; however, in some labs *Internet Explorer* must be used to obtain the Adobe Acrobat software.

Since this is the first time for this online version I would appreciate your questions (schwark@uwplatt.edu) so I might clarify information to ensure a basic understanding of how to locate information using various databases and techniques. The idea is to provide a variety of sources and provide some pointers on how to use the various systems most effectively. Everyone can find information, but is it the right information, located in a reasonable amount of time, that is most desirable.

*You may want to* open two or three Netscape windows and toggle back and forth with outline.
Outline of Material to be covered:

A. Online Databases-Journals

2. **ABI INFORM**.
3. **CarlUncover** (Carl UnCover provides and indexing and abstracting service for almost 20,000 multi-disciplinary journals to as far back as fall 1988.)

B. Online Databases-Catalogs

1. **WISCAT** (Wisconsin Catalog- indexes over 1,200 libraries in Wisconsin)
2. **WorldCat** (Union catalog of the members of the OCLC Online Computer Library Center)
   Provides bibliographic access to the holdings of thousands of libraries in the US, Canada, Europe, and other parts of the world.
3. **Karrmann Library Online Catalog**

C. Selected Internet Sites

D. Library and Information Assistance

**NOTE:** This online class was requested by Dr. Balachandran to help with your research. Please continue to next page or screen. For the best learning results and the best view of how to obtain access to information follow the complete outline as presented which will take about one hour.

Thanks. Bryan Schwark, Division Librarian for EMS.
Let’s Begin!

The Karrmann Library’s Home Page is your first gateway to information. First select Online Resources, then

A. Online Databases–Journals [Many are commercial databases that provide indexing and abstracting to citations to information available in the library, through Interlibrary Loan (ILL), or maybe full-text information.]

Locate the “Pull down to choose a database” and select Applied Science & Technology Abstracts. http://wilsonweb2.hwwilson.com/cgi-bin/auto_login.cgi

Off the “Wilson Web” menu select the following databases for the most recent period:

A. Online Databases - Journals


   a. “Type a word or phrase” box: (“facilities design” AND (plant OR manufacturing OR office)) and there are 8 hits. Not much relevant, but does lead to subject heading or Descriptor “Flexible manufacturing systems”

   b. Try hotlink Flexible manufacturing systems which provides over 300 hits, too many
A. Online Databases - Journals


c. Try "flexible manufacturing systems" AND "design*"
d. Through trial and error you find out that ("flexible manufacturing systems" AND "design") NOT aviation works (70 hits) and gives many leads in Descriptors: Work design, Modular design, Industrial buildings Designs and plans, Flexible manufacturing systems Design
A. Online Databases - Journals


e. Some are full-text under Descriptor Flexible manufacturing systems Design

For journal titles not full-text check the Library Online Catalog under Author/Title/Subject and then select Journal Title, or if you are in the Library, check the alphabetical journal listing in the Karrmann Library’s Periodicals List (blue or black covers) found on the First and Main Floors of the Library, to determine if the Library holds the journal for the period needed.
A. *Online Databases - Journals*

2. ABI INFORM. Locate the “Pull down to choose a database” and select ABI INFORM

http://proquest.umi.com/pqdweb?ReqType=301&UserId=ipauto&Passwd=ipauto

a. Click on “Go” and then select ABI INFORM Global and click on Continue, and then in the “search a word or phrase” box type (“site selection” AND facilities) AND NOT (meeting*)
A. **Online Databases-Journals**

2. **ABI INFORM.**

   b. Select “Making sense of site selection” and note **Subject Terms**: **Site selection**, **Location of industry** which are hotlinked. **Note**: Tables and Formulas missing. These would need to be obtained through Interlibrary Loan since Library discontinued subscription when online “full-text” material became available.

c. Entries can be printed or e-mailed.
A. Online Databases - Journals

3. CarlUncover (Carl UnCover provides indexing and abstracting service for almost 20,000 multi-disciplinary journals to as far back as fall 1988.)
A. Online Databases - Journals

3. Carl Uncover
   a. Locate the "Pull down to choose a database" and select Carl Uncover
   b. Click on "Search Uncover Now"
   c. Enter search term(s) manufacturing facil* design* and click "Search"
A. *Online Databases-Journals*

3. Carl Uncover
d. Results is 55 plus entries
e. Select *An Information Systems Design Framework for Faci* which is in *Information Resources Management Journal* which may be obtained through Interlibrary Loan

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**Search Results**

*Record: 1 - 10 of 55 in UnCover*  
*Search was: manufacturing facility design*

1. Rusinko, C.A.
   *Exploring the Use of Design-Manufacturing Integr
   IEEE Transactions on Engineering Man*
   02/01/1999

2. Angelucci, Louis A.
   *Current Good Manufacturing Design Trends in Acti
   Drug Information Journal*
   1999

3. Ahmed, Nazim U.
   *An Information Systems Design Framework for Faci
   Information Resources Management Joun*
   10/01/1999

4. Small manufacturing facility features big-compan
   *Design News*
   04/9/1999
A. Online Databases - Journals

3. Carl Uncover
e. Continued

Record 3 of 55 in UnCover

Search was: manufacturing facility* design*

Search type: Keyword

Title An Information Systems Design Framework for Facilitating TQM Implementation

Author(s) Ahmed, Nazim U.
Ravichandran, Ramarathnam

Journal Info Information resources management journal.
OCT 01 1999 v 12 n 4 5

Summary This paper provides a framework for information systems design for TQM implementation. In addition it presents a hypothetical example for a large manufacturing firm.

SICI 1040-1628(19991001):24L5:ISDF;1-

The publisher of this journal has given UnCover permission to deliver this article to your desktop.

Pricing This article may be available in your library at no cost to you. To have it delivered from UnCover the following charges apply:
B. Online Databases-Catalogs

1. WISCAT (Wisconsin Catalog- indexes over 1,200 libraries in Wisconsin) Locate by using “Pull down to choose a database” WISCAT (Wisconsin Books) http://wiscat.brodart.com/
   a. Choose Express search
   b. “Anyword” box type in (facilit* design*) AND (manufactur* OR industr*)
   c. View the entries and select “Engineering design for process facilities”
B. Online Databases-Catalogs

1. WISCAT

d. Note libraries that have item

e. Note “hot linked” Subjects: Production management, Industrial Engineering, Engineering design.
B. Online Databases-Catalogs

2. WorldCat (Union catalog of the members of the OCLC Online Computer Library Center)
   Provides bibliographic access to the holdings of thousands of libraries in the US, Canada, Europe, and other parts of the world.
   a. Try manufactur* facilit* design*
B. Online Databases - Catalogs

2. WorldCat

b. Select “Manufacturing facilities design and material handling”


3. The practical application of energy efficient electric motor systems in industrial manufacturing facilities: a thesis in Electrical Engineering.
   Author: Locklead, Sean M. Year: 1999. Tag Record □

4. Pharmaceutical affairs; law, enforcement ordinance, and enforcement regulations: attachment, manufacturing control and quality control of category, manufacturing business licenses for drugs, etc., regulations for buildings and facilities for pharmacies, etc: bilingual in Japanese and English.
   Year: 1997. Tag Record □


6. Manufacturing facilities design and material handling.
   Author: Meyers, Fred E. Year: 2000. Tag Record □

7. Computational tools and facilities for the next-generation analysis and design environment.
B. Online Databases-Catalogs

2. WorldCat
   c. Note Subjects: Plant layout, Materials handling, Production engineering.
   d. Select Plant layout

[Database=WorldCat | Search=ru(manufacturing facilities design) | Results=32 records | Record=6]

Ownership: Check the catalogs in your library.

ACCESSION: 40830254
AUTHOR: Meyers, Fred F.
TITLE: Manufacturing facilities design and material handling
PLACE: Upper Saddler River, NJ:
PUBLISHER: Prentice Hall,
YEAR: 2000
PUB TYPE: Book
FORMAT: p. cm.
NOTES: Includes index.
ISBN: 013674821X
SUBJECT: Plant layout, Materials handling, Production engineering.
OTHER: Stephens, Matthew P.
B. Online Databases-Catalogs
   2. WorldCat
      e. Note over 300 entries
      f. Click on Manufacturing facilities design and material handling

1. Why and how to take a plant tour.
   Author: Upton, David M., 1959-. Year: 1997. Tag Record

2. Comparative evaluation of computerized layout programs.
   Author: Aku-Hijen, Eman. Year: 1985. Tag Record

3. The use of the scale model in sawmill planning.
   Author: Judson, Philip.. Year: 1948. Tag Record

   Author: Gau, Kai-Yin, 1970-. Year: 1998. Tag Record

5. Learning to see: value stream mapping to create value and eliminate muda.
   Author: Rother, Mike.. Year: 1998. Tag Record

6. How to use factory layout to achieve lean manufacturing: industrial & operations engineering, the
   University of Michigan, August 1998.
B. Online Databases - Catalogs

2. WorldCat

g. This item can be obtained through Interlibrary Loan by following directions under Get/Display Item.
B. **Online Databases-Catalogs**

3. **Karrmann Library Online Catalog**

Searches can be done by:

**a. Author, Title, Library of Congress Subject Heading, Call Number, Journal Title**

1) Select Author/Title/Subject and then select Subject

2) Type **facilities design** (This may not be a Library of Congress Subject Heading-LCSH)

3) Click on “Search” and search indicates “0” Titles (Either spelled wrong or not LCSH)

4) Click on “See Also,” note next to “Facility layout”

5) At bottom under “Reference Information” click on “**Plant layout**”

6) Indicates 3 entries when click on “**Plant layout**” (LCSH)

7) Look at entries and click on the first title

8) Note Call Number, Location, and Status. Also note the Subject(s): which are hotlinked

9) At the top of page click on “New Search”

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**Facilities and workplace design : an illustrated guide / by Quaterman Lee...**

**Database:** Karrmann Library Catalog

**Main Author:** Quaterman, Lee

**Title:** Facilities and workplace design : an illustrated guide /

**Description:** p. 230 ; ill. ; maps, plans ; 23 cm

**Publisher:** New York, N.Y. : Engineering & Management Press, c.1997

**Subject(s):** Plant layout, Plan engineering, Office layout, Work environment

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**Location:** General

**Call Number:** TS178 .64 .957

**Status:** No. Charged
B. *Online Databases-Catalogs*

3. **Karrmann Library Online Catalog**

Searches can be done by:

b. **Advanced Keyword** (select Advanced Keyword)
   1) Type `design AND (facil?? OR plant)` (Not a LCSH), click on “Search”
   2) 64 questionable entries, click on second screen, item 22, *Guide to facilities planning*
   3) Note Call Number, Location, and Status
   4) Note Library of Congress Subject Headings-LCSH: *Factories--Planning, Facility management, Factories--Design and construction*
   5) Remember NOT all searches are successful, try other words, databases, etc.

c. See “yellow” handout *Karrmann Library Guide to Finding Books and Audiovisual Materials* available in the Library

d. Use “Help” when needed and **ASK** for help when needed

e. **Search History** traces your searches—exit to “Go” to Karrmann Library
C. Selected Internet Sites

1. Try http://northernlight.com/
   a. Enter (plant OR facilities) AND (design OR layout)
   b. Look at entries and try some 2,097,184 items
   c. I tried Plant Layout - Contents
      44% - Directories & Lists: Plant Layout- Contents. 04/27/96
      Educational site: http://www.cen.uiuc.edu/courses/ie261/notes/layout/layout-Contents.html and got:
      http://www.cen.uiuc.edu/courses/ie261/notes/layout/layout-Contents.html
   d. Please go to next page or frame

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Plant Layout - Contents

- Plant Layout
- Types of Flow Patterns
- Types of Layouts
  - Static Product
  - Product or Production Line Layout
  - Group or Cellular Layout
  - Process Layout
- Why is the layout problem hard?
- Systematic Layout Planning (Mother)
- Measuring Flow
  - From-To Charts
- Activity Relationship Analysis
- REL Chart
- REL Diagram - Activity Relationship Diagram
- Tracing Approach
- The FEL graph approach
C. Selected Internet Sites


   e. Add to: (plant OR facilities) AND (design OR layout) AND (Educational)

   f. Limits to 455,714 items, or reduces by 1.6 million records
C. Selected Internet Sites
1. Try http://northernlight.com/
   g. Try What is Facility Layout?

32% - Directories & Lists: Location or arrangement of everything within & around buildings. Objectives are to maximize Customer satisfaction. Utilization of space, equipment, & people. Efficient flow of information, material, & people... 10/29/97
   Educational site: http://hma.coba.unr.edu/ron/352CH8/tsld004.htm
   http://hma.coba.unr.edu/ron/352CH8/tsld001.htm

h. Now you are on your own; however, I am available for questions at schwark@uwplatt.edu
   Please note next page or screen

Thinking Challenge

At many public events, hanging occurs outside women’s restrooms; none, outside men’s. Recently, many states have passed ‘parity-parity bills. Like California’s, many say: for every 2 toilets and/or urinals for men, there must be 3 toilets for women. Evaluate these layout requirements.

Slide 2 of 78
D. Library and Information Assistance

1. Reference Desk - Main Floor (at Reference Desk)
2. Periodicals-Interlibrary Loan Desk - First Floor http://www.uwplatt.edu/~ill/
4. Division Librarian for EMS - Ask at First Floor Periodicals/ILL Desk