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## Are They Really Teachers?

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What follows is a (searchable) text-only version.

Are They Really Teachers?

Virginia Baldwin

Dr. Michael Anderson

University of Nebraska - Lincoln

Course Content/Student level

- Undergraduate Engineering students, graduate students (masters and Ph.D. level) and interspersed.

- Subject areas covered

  - Mechanical Engineering (freshman level)

  - Engineering Mechanics (all graduate students)

  - Environmental Studies (graduate students)

  - Construction Management (graduate and UG courses)

**Session Objectives**

- Solving research problems

- Overview of literature types

- Article Indexes

- Search Tools

  - Truncation

  - Phrase Searching

  - Field Searching

  - Combining terms

- Accessing or Obtaining Information

- Broaden or narrow your search

Basic Approach

- Flow of Scientific Information Charts

  - Various sources of information

  - Evaluation of sources

  - Progression of information

- Preliminary

- Highly recognized and established

Basic Approach

- Information retrieval concepts

  - Accessing databases

  - Basic, Advanced search interfaces

- Assignment/Problem

  - Two Part

- Part I - Scholarly vs non-scholarly periodicals

•Part II - Use of various information sources for their research question

## RESEARCH PROBLEM

•GIS and pedestrian safety

•Keywords

–GIS

–Geographic Information System

–pedestrian safety

–pedestrian accidents

–pedestrian crash(es)

–pedestrian(s)

Research Query About the Problem

•Problem: GIS and pedestrian safety

•Query? Is there any research using GIS that investigates factors influencing pedestrian and motor-vehicle crashes?

•Comparison of search results

Comparison of Search Results

Research Query About the Problem

•What are the different designs for mobile phones?

•What are the design characteristics of a model web search engine interface?

•What effects do admixtures have on concrete performance?

Compendex vs Transport

•Broadest search in Compendex (gis wn ky or geographic information system\* wn ky) and pedestrian\* wn ky (result: 12)

•Broadest search in Transport (gis or geographic\* information system\* ) and pedestrian\* (Words Anywhere) (result: 40)

•May need to use search concepts to narrow your search if there are too many results

•Select from indexes based on

•Depth and Breadth of your research

•Field(s) of study involved in your research

Compendex vs Transport

•Transport <http://www.unl.edu:2020/indexes/silver/transport.html>

–TRIS - Transportation Research Information Services

–IRRD- International Road Research Documentation

•Compendex <http://www.unl.edu:2020/journals/iris/compendex.html>

•Covers the Engineering Discipline

–Indexes articles in journals and Conference Proceedings in Engineering Literature

–Coverage 1970-present

•Component of Engineering Village 2

–Links to USPTO for patent searching

–Retrieve citations for industry specifications and standards

## IN SUMMARY

- Librarian functions as a part of the class learning experience, not just there to tell about the library
- Hybrid application of PBL
  - Formerly - passive lecture about library processes
  - Becomes a problem-posing activity with problems originating from the class professor