



13 Years after the Internet: Where Goes Information Literacy?
Richard Sweeney & Haymwantee Singh sweeney@njit.edu 973-596-3208 / 8498



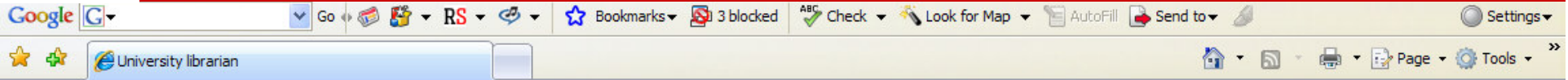
13 years after the Internet: Where Goes Information Literacy?

**UNESCO “Training-The –Trainers In Information Literacy
Workshop
Hosted by the Bibliotheca Alexandrina, Egypt
November 4, 2008**



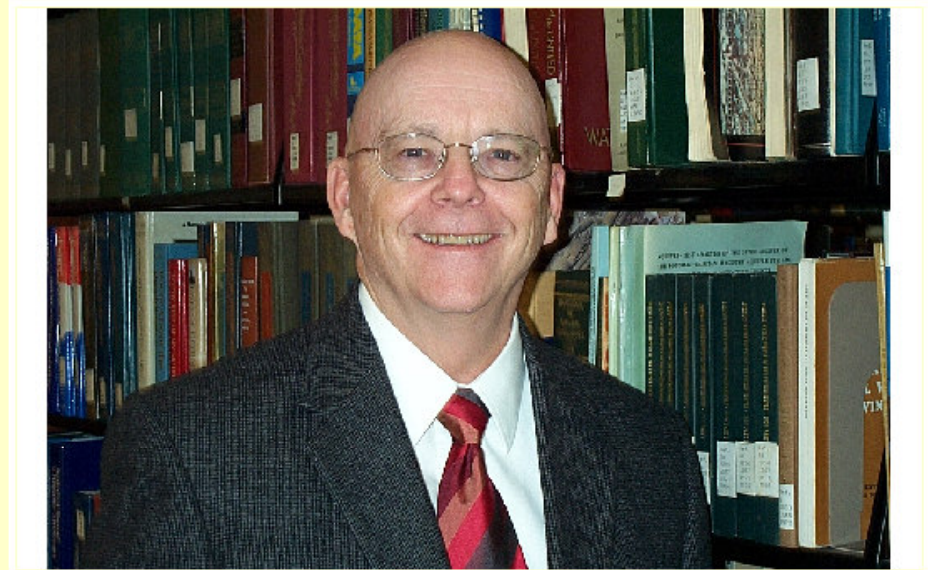
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Richard T. Sweeney University Librarian

[New Jersey Institute of Technology](#)
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richard.sweeney@njit.edu



The University Librarian reports to the [Provost](#), and is responsible for directing all the services and activities of the NJIT libraries ([Robert W. Van Houten Library](#) and [Barbara & Leonard Littman Architecture Library](#)).

Rich Sweeney joined NJIT as university librarian in 1995. For the previous 11 years, Rich directed the library at [Polytechnic University, Brooklyn](#). Before that, he directed public libraries in [Columbus, Ohio](#); [Flint, Michigan](#); and [Atlantic City, New Jersey](#).

[Article: Millennial Behaviors and Demographics \(includes Bibliography\)](#).

[Two Page Summary Handout: Miller](#)

[Millennial PowerPoint](#)

<http://library1.njit.edu/staff-folders/sweeney/>

Rich is researching the Millennials (born 1979 to 1994) and the impact that this large, quite different, generation will have upon libraries and academic institutions. He has conducted over fifty panels (focus groups) in front of live audiences in over twenty states and in New Brunswick, CA. [Elsevier Symposium: Millennial!](#)
[Disconnects AI A .January 2008 PowerPoint](#)





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Haymwantee Singh, MS, MLS



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Education and Experience

- M.L.S. Library and Information Science, SUNY at Albany, NY, 1992
- M.S. Industrial Engineering, Alfred University, NY, 1988
- B.A. Mathematics, University of Guyana, 1985
- Trained Teachers' Diploma, LD College of Education, Guyana, 1975

Publications

Wang, M.J., Singh, Haymwantee P, Huang, W.V., Robot Selection through Fuzzy Set Approach, Proceedings of the Second International Conf. on Robotics and Factories of the Future, San Diego, 1987, 617-624 (peer-reviewed)

Library liaison program

I am the library liaison to the following departments:

- Distance learning
- Electrical and computer engineering
- Engineering technology
- Industrial engineering
- Mechanical engineering

[More about library liaison program ...](#)

**Haymwantee will
Video Conference
Remotely from New
Jersey**

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The Goal Today:

1. Information Literacy (IL) over the next ten years.
- &
2. Practical solutions for today.



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“Once I was a scuba diver in the sea of words. Now I zip along the surface like a guy on a Jet Ski.” p. 57

Carr, Nicholas. “Is Google Making Us Stupid?: what the Internet is doing to our brains”. Atlantic Monthly. 301:6 July/August 2008



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“Sergey Brin and Larry Paige, the gifted young men who founded Google...

“The ultimate search engine is something as smart as people - or smarter, Paige said in a speech a few years back. For us, working on search is a way to work on artificial intelligence.”

p. 62

Carr, Nicholas. “Is Google Making Us Stupid?: what the Internet is doing to our brains”. Atlantic Monthly. 301:6 July/August 2008



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What does information literacy look like?



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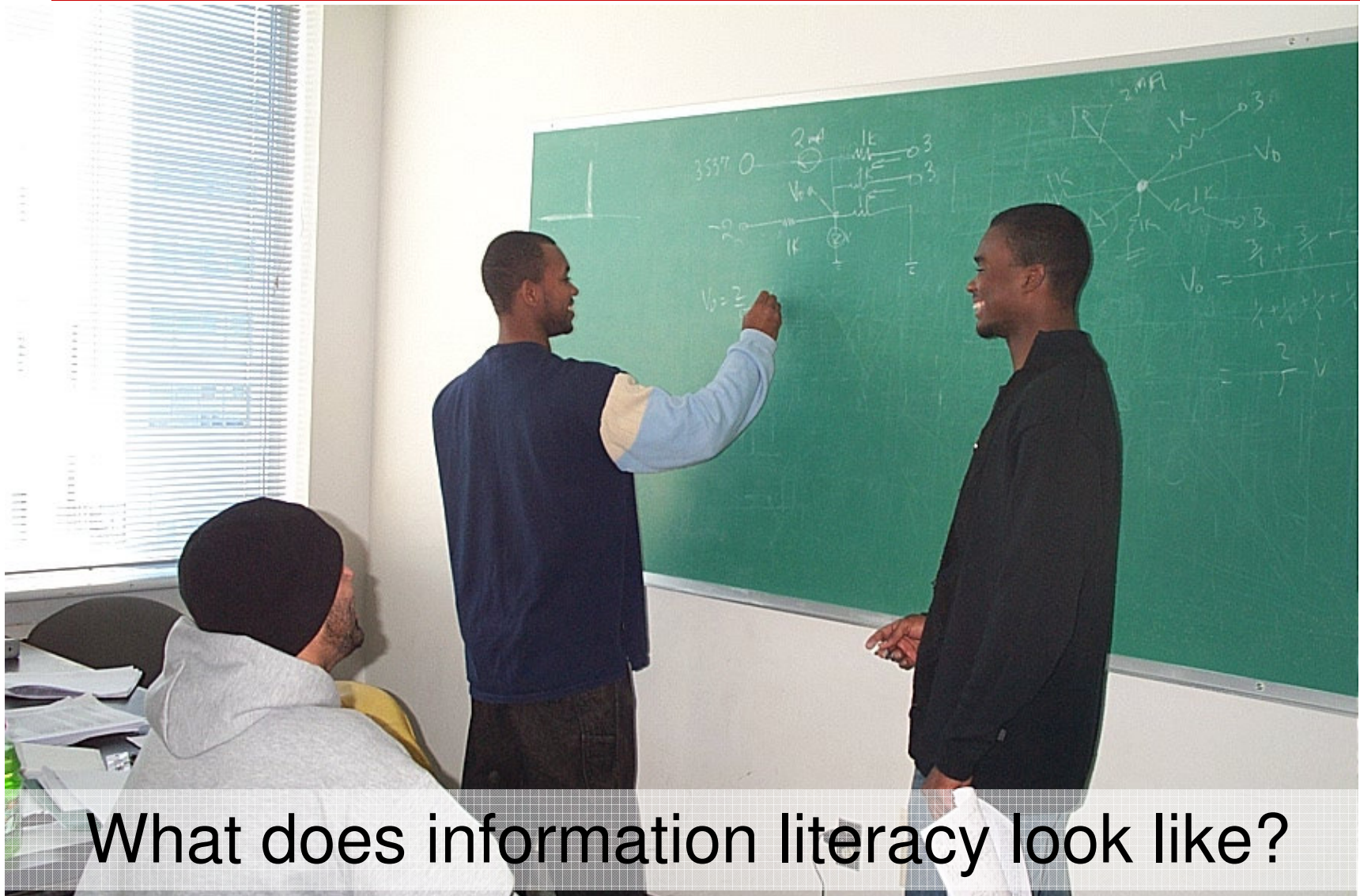


What does information literacy look like?



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What does information literacy look like?



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What does information literacy look like?



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IL is not primarily learned in a classroom.

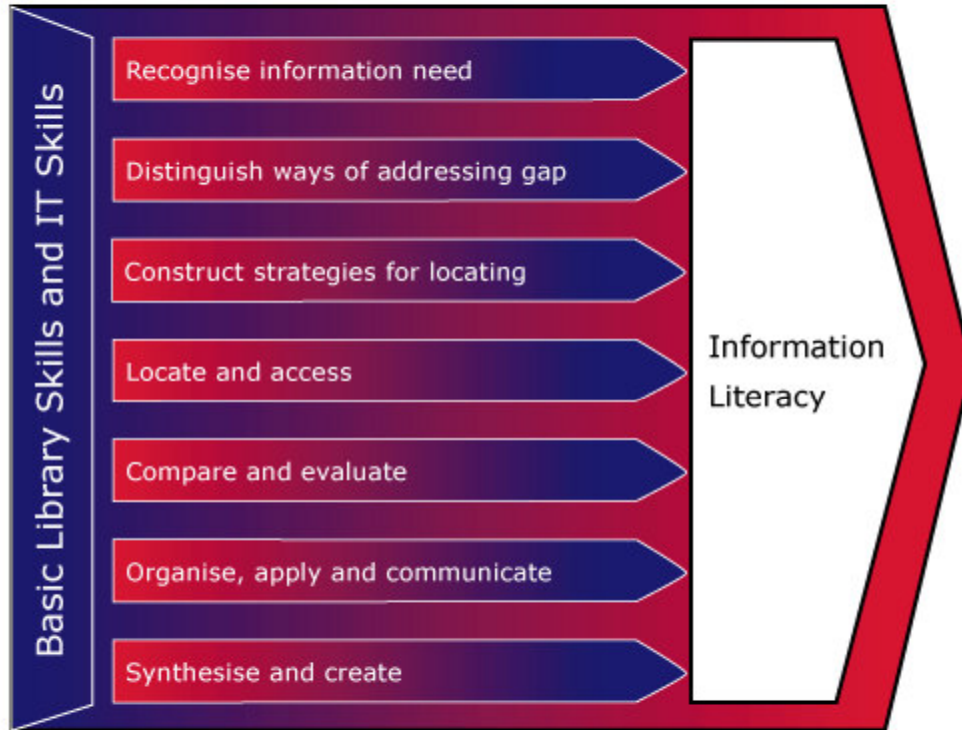
What does information literacy look like?



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There now is a
consensus on
the definition of
IL.

Novice Advanced Beginner Competent Proficient Expert

http://www.sconul.ac.uk/groups/information_literacy/sp/sp/splancol.gif




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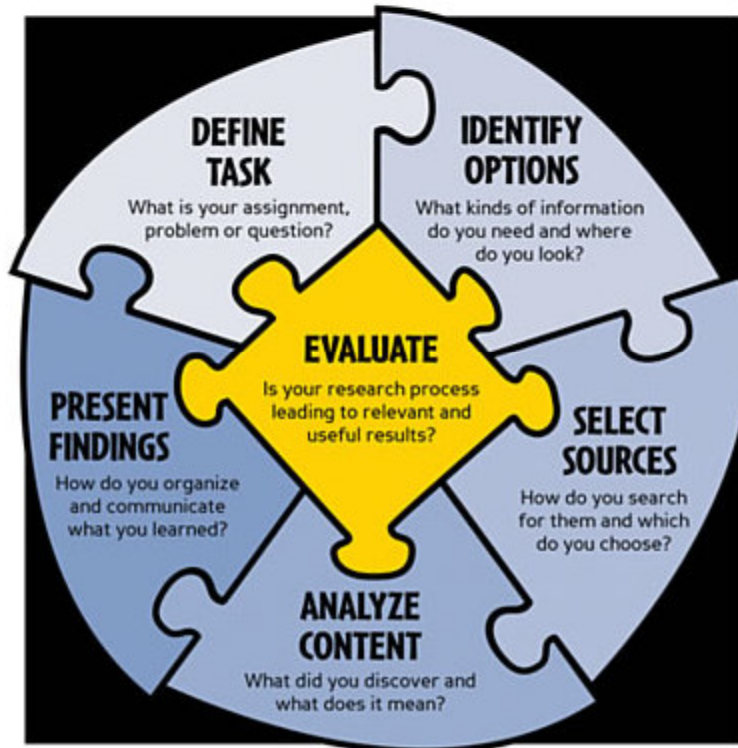
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Home » Research Help »

Text-only pa

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REFLECT • LEARN • CONNECT



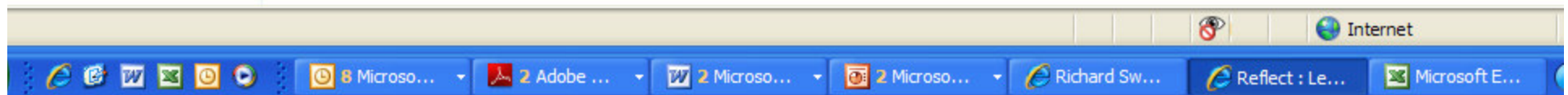
Information is everywhere and changing everyday. The research process involves reflection, learning, and making connections.

Information literacy is the ability to recognize when information is needed and to locate, evaluate, and effectively use the needed information.

Click on each puzzle piece for tips that will support a positive research experience.

[Larger image](#) for full screen viewing or printing as a handout

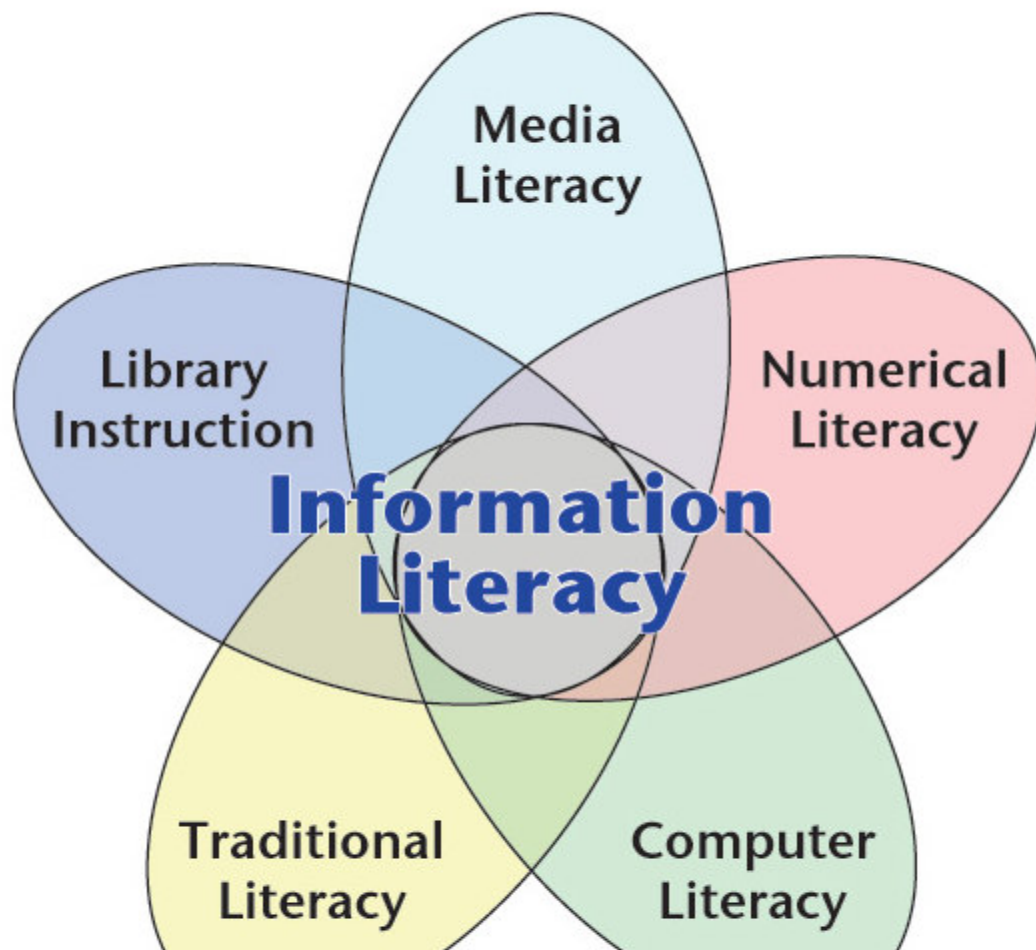
http://dept.sccd.ctc.edu/cclib/Research_Help/rlcpuzzle.asp





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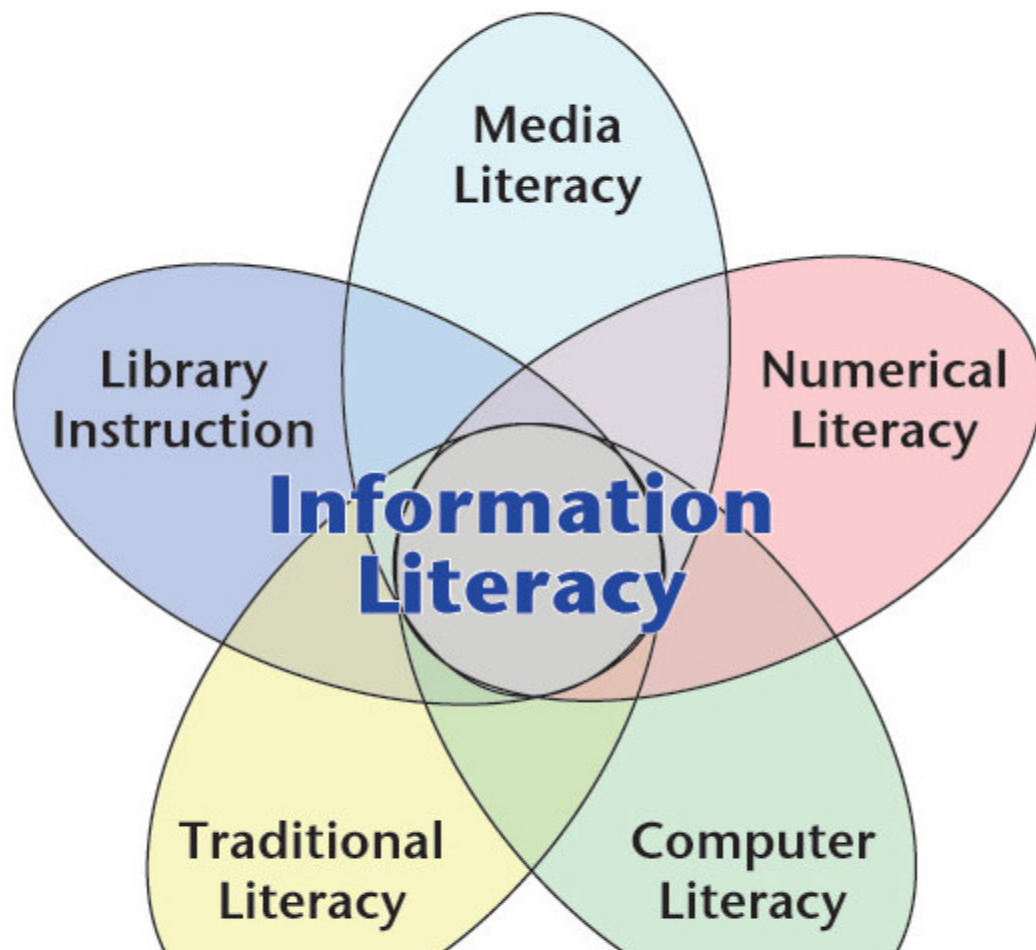
The notion of IL, however, is tied with other literacies.

http://programs.durham.edu.on.ca/ddsbinfoli/Information_Literacy.jpg



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Reading literacy is fundamental to all information literacy.

http://programs.durham.edu.on.ca/ddsbinfoli/Information_Literacy.jpg



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"Will unguided information lead to an illusion of knowledge, and thus curtail the more difficult, time-consuming, critical thought processes that lead to knowledge itself?"

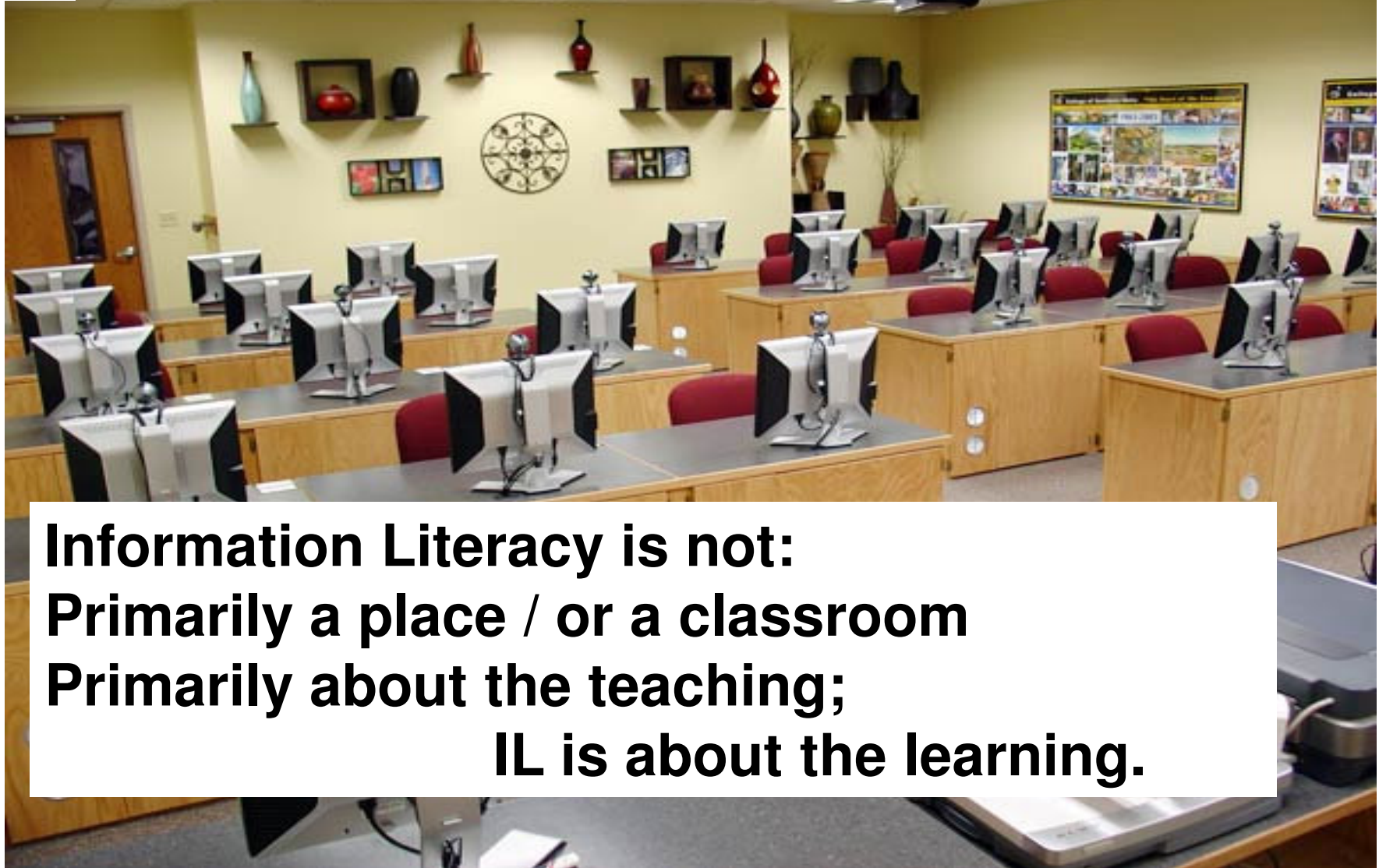
Will the split-second immediacy of information gained from a search engine and the sheer volume of what is available derail the slower, more deliberative processes that deepen our understanding of complex concepts, of another's inner thought processes, and of our own consciousness?"

Wolf, Maryanne. Proust and the Squid: The Story and Science of the Reading Brain . HarperCollins New York, 2007



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**Information Literacy is not:
Primarily a place / or a classroom
Primarily about the teaching;
IL is about the learning.**



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The **Internet** started being widely used by the general public in early **1995**

Today's typical U.S. college freshman was 5 years old in 1995.



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“In 20 years time, the number of English speakers in China is likely to exceed the number of speakers of English as a first language in all the rest of the world,” [current Prime Minister] Mr [Gordon] Brown said during a speech in Beijing.”

Yeh, Andrew. “New Dawn in a Shared Language ”. Financial Times, 13 April 2005



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English is becoming an essential skill for every learner given the Internet environment.

Yeh, Andrew. “New Dawn in a Shared Language ”. Financial Times, 13 April 2005



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“It is projected that just four years from now, the world’s information base will be doubling in size every 11 hours.”

**IBM Global Technology Services. The toxic terabyte:
How data-dumping threatens business efficiency. IBM, July, 2006
http://www-935.ibm.com/services/us/cio/leverage/levinfo_wp_gts_thetoxic.pdf**



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IL is an essential skill for every learner in this environment.

**IBM Global Technology Services. The toxic terabyte:
How data-dumping threatens business efficiency. IBM, July, 2006
http://www-935.ibm.com/services/us/cio/leverage/levinfo_wp_gts_thetoxic.pdf**



MEDIATED DISCOVERY & RETRIEVAL



**Learner mediated information retrieval. Little mentoring.
Please get it for me.**



MEDIATED DISCOVERY & RETRIEVAL



This old model is much less effective.

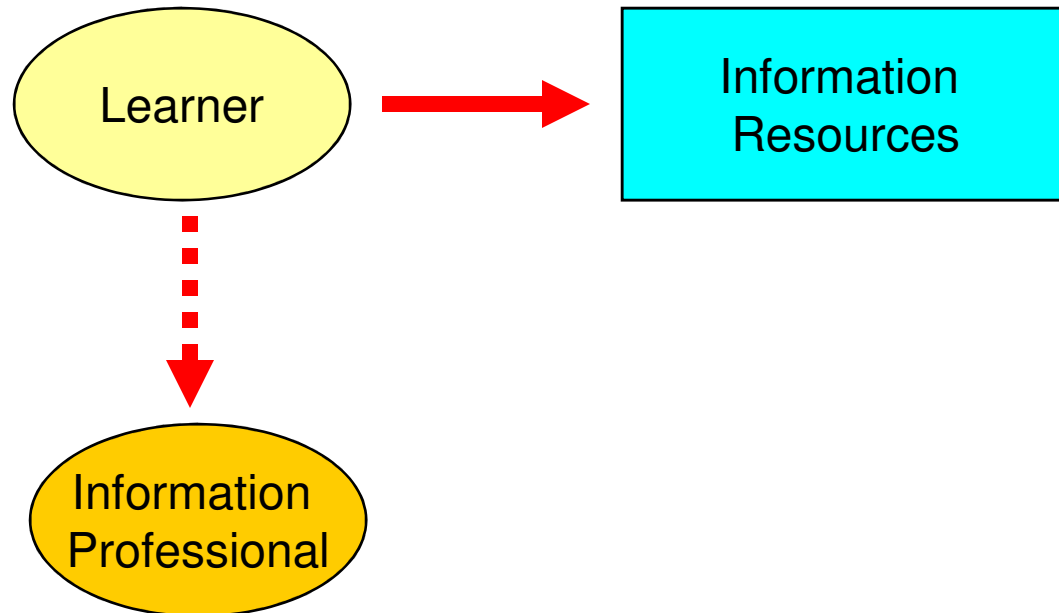
**Learner mediated information retrieval. Little mentoring.
Please get it for me.**



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GUIDE ON THE SIDE



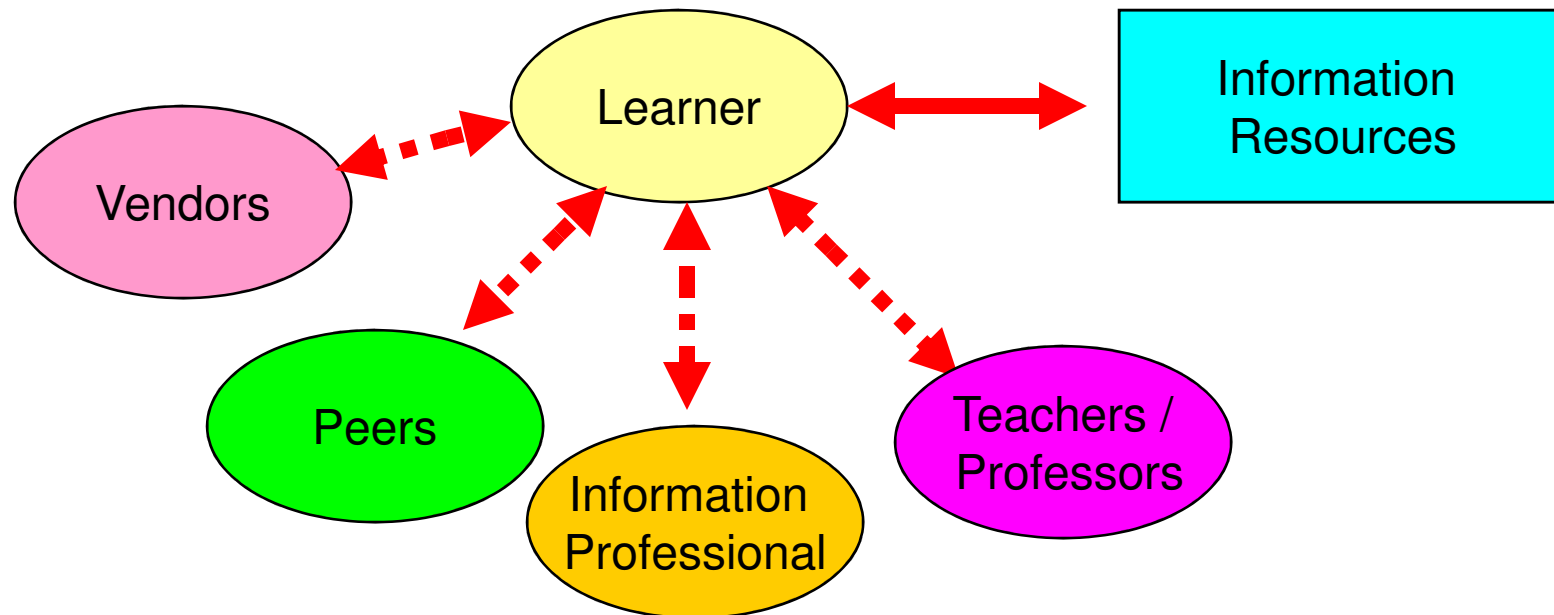
Learner self-service information retrieval. Mentoring available, if needed. Mediation may not be necessary or desired.



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NETWORKED GUIDES ON THE SIDE



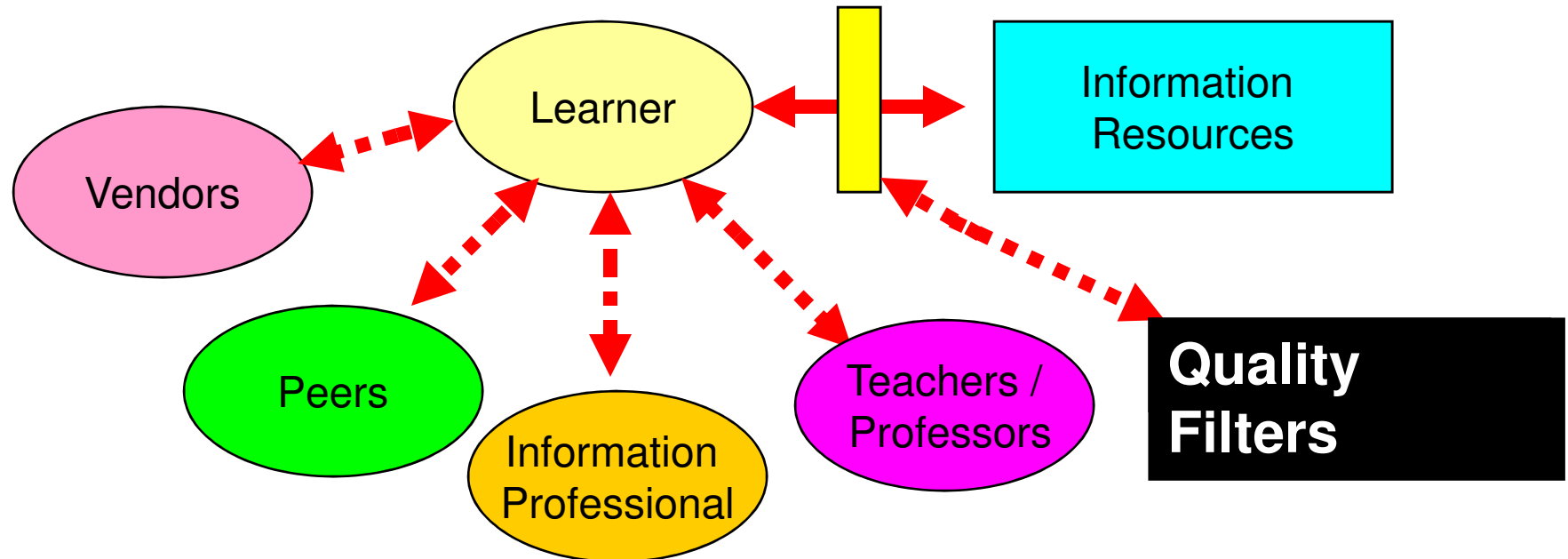
**Learner owned self-sufficient information retrieval.
Lots of mentors. Learner may be open to alerts.
Mediation not necessary or desired**



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QUALITY FILTERS

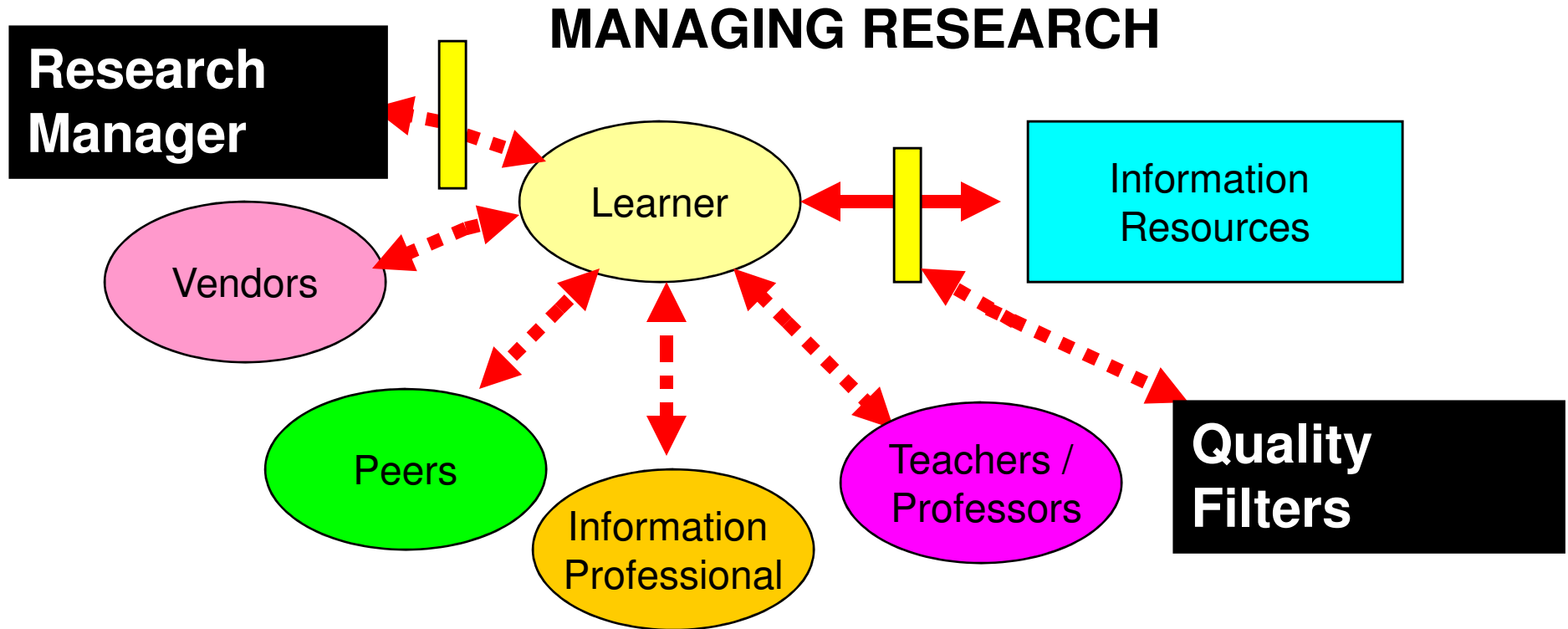


**Faster learner owned self-sufficient information retrieval.
Lots of mentors. Learner may be open to alerts.
Mediation not necessary or desired.**



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We are currently preparing students for jobs and technologies that don't yet exist...in order to solve problems we don't even know are problems yet.



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Information literacy is part of a suite of skills necessary to becoming a self-sufficient learner.



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The goal of information professionals is to motivate and assist students to become self-sufficient learners.



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We are all IL learners!!

**Every learner must effectively,
efficiently, and continuously learn to
become better knowledge
discoverers, explorers, and managers.**



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IL is a set of competencies..



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IL is a set of competencies..

**practical, useful skills that are
constantly evolving.**



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The Information Literacy Competency Environment

ITLCE is a freely accessible virtual web environment with large samples of commercial and non-commercial publisher and academic databases and websites that enable users to learn information literacy skills by searching through thousands of exercises and assessing their own performance. The ITLC is set up for students to learn how to set up a research project, navigate, search, analyze and manage results.



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Andragogy

“The way an adult learns is different from the way a child learns -- this is the most basic principle behind the educational theory known as andragogy. ”

Whitehead, Bob. “What andragogy means for distance education”. December 15, 2005
<http://www.web-conferencing-zone.com/4080-andragogy.htm>



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The Five Principles Of Andragogy

1. Letting learners know why something is important to learn
2. Showing learners how to direct themselves through information
3. Relating the topic to the learners' experiences
4. People will not learn until they are ready and motivated to learn
5. Requires helping them overcome inhibitions, behaviors, and beliefs about learning”

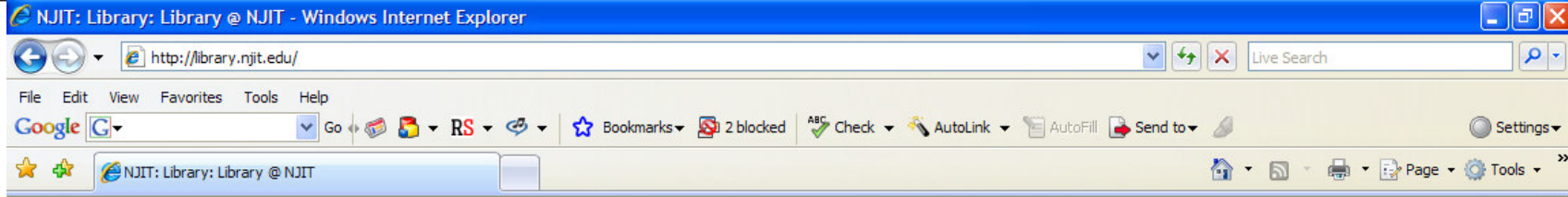
Conner, M. L., The Institutional Path for Change in This Age: Andragogy, not Pedagogy Andragogy and Pedagogy. Ageless Learner, 1997-2004.

<http://agelesslearner.com/intros/andragogy.html>



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ASK NJIT Library
Natural Language
Knowledgebase



ABOUT ADMISSIONS ACADEMICS STUDENT LIFE RESEARCH CONTINUING ED CAREER SERVICES

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- Articles via Journals
- Online Catalog
- E-books
- Research & Instruction
- Interlibrary Loan
- Theses & Dissertations
- Services & Collections
- Policies
- Information
- Administration
- Architecture Library

Home > Library
Welcome to Van Houten Library

Have a question? Type your complete question here

Ask using real questions like: How do I find a book? [Top 10](#)



Getting started at NJIT library video

Ask a librarian
My library account

- Recent research articles by NJIT authors**
- Distributed synchronization in wireless networks: Global synchronization via local connections 2008; IEEE Signal Processing Magazine; Simeone, O. , Spagnolini, U. , Bar-Ness, Y. , Strogatz, S.H.
 - The missing censoring indicator model and the smoothed bootstrap 2008; Computational Statistics and Data Analysis; Subramanian, S. , Bean, D.
 - A method to compute statistics of large, noise-induced perturbations of nonlinear Schrödinger





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“The ideal learning situation:

1...customized to the very specific needs of the individual.

2...provides students with immediate feedback.

3...is constructive ..to explore learning environments (preferably multi sensorial)...

4...motivates students to persist far in excess of any externally imposed requirements.

5...builds enduring conceptual structures.” p.14

Foreman, Joel. “Next-Generation Educational Technology Versus the Lecture.” Educause Review. 38.4 (2003) 12-22



Learning Strategies for Millennials:

- 1. Increase teacher – student interaction; feedback**
- 2. Engage students (motivation; involvement)**
- 3. Accelerate student learning**
- 4. Increase experiential learning (gaming; simulations, role playing)**
- 5. Increase learning options**
- 6. Increase peer-to-peer (collaboration) learning**
- 7. Offer more “pull” web based learning options**
- 8. Offer more interactive multimedia learning.**



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Teaching-Centered

Quality of faculty

Time held constant; learning varies

Learning is linear and cumulative

Promote recall

Faculty are lecturers

Learning is competitive and individualistic

Learning-Centered

Quality of students

Learning held constant; time varies

Learning is a nesting and interacting of frameworks

Promote understanding

Faculty are designers of learning environments

Learning is cooperative and collaborative

Robert B. Barr and John Tagg, "From Teaching to Learning: A New Paradigm for Undergraduate Education," *Change*, vol. 27, no. 6 (November/December 1995): 12–25



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“To one degree or another, all thirty projects share the following six characteristics:

- 1. Whole course redesign**
- 2. Active learning (learner centered)**
- 3. Computer-based learning resources**
- 4. Master learning (scheduled milestones for completion)**
- 5. On-demand help**
- 6. Alternative staffing (sometimes grad and undergrads)”** p. 30

Twigg, Carol A. “Improving Learning and Reducing Costs: New Models for Online Learning”. EDUCAUSE Review Sep/Oct 2003: 28-38



IL & the “Open Education” Movement

Information Literacy lends itself to being part of the “open education” movement because:

- 1. Everyone has the need.**
- 2. It’s a set of demonstrable, practical competencies.**
- 3. Developing learning tools is cheaper.**
- 4. Improvements are developed faster.**



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The screenshot shows a Windows Internet Explorer browser window. The title bar reads "How_to_Evaluate_12 - Windows Internet Explorer". The address bar contains the URL "http://muse.widener.edu/~ttr/How_to_Evaluate_9.htm". The browser interface includes a menu bar (File, Edit, View, Favorites, Tools, Help), a search bar with the Google logo, and various toolbars. The main content area displays a presentation slide with a light blue background. At the top of the slide is a photograph of a large, modern building. Below the photo, the title "How to Evaluate Information on the Web" is written in large, bold, dark red letters. Underneath the title, the text "Widener University", "Wolfgram Memorial Library", and "Reference Department" is displayed in a smaller, dark red font. At the bottom of the slide, there is a set of navigation controls including arrows for back, forward, and search. The Windows taskbar at the bottom shows the Start button, several open applications (Microsoft Office, Absent Control..., Internet Explorer), and the system tray with the time "10:26 AM".



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- Haymwantee



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Information Literacy & Best Practices



Librarian Liaisons

Who is a Librarian Liaison?

At NJIT, a reference librarian also has responsibility to serve as the link between the library and a few academic departments.



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NJIT's Librarian Liaisons – What Do They Do?

1. **Single point of contact for all library services**
2. **Promote library services and resources**
3. **Promote and advance **information literacy** programs by partnering with faculty**
4. **Select and purchase resources such as books for liaison departments**



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Andrea Spender, Reference Librarian
spender@njit.edu, 973-596-4977
 M.L.S. Univ. of Western Ontario, Canada
 B.S. Biology, Univ. of Guelph, Canada

Library Liaison to:

- Biological Sciences
- Mathematics
- Management
- Physics



Maya Gervits, gervits@njit.edu, 973-642-4390
 Director of the Littman Architecture Library
 MLS, Rutgers University
 Pd.D. in Art and Architectural History, Moscow
 MA in Art History, St. Petersburg, Russia

Library Liaison to:
 School of Architecture



Haymwantee Singh, Reference Librarian
singhh@adm.njit.edu and (973) 596-8498

MLS - Suny Albany
 MS, Industrial engineering - Alfred
 BA, Mathematics - University of Guyana

Library liaison to:

- e-Learning
- Electrical and Computer Engineering
- Engineering Technology
- Industrial and Manufacturing Engineering
- Mechanical Engineering
- Nanotechnology
- Wireless Communications and Networking



Heather Huey, Information Literacy Librarian
heather.a.huey@njit.edu and (973) 596-8499

MLS - Rutgers University
 BA - Northwestern College

Library liaison to:

- Information Literacy (integrating library skills into the curriculum for all departments)



Davida Scharf, Director of Reference
davida.scharf@njit.edu and (973) 642-4397

MLS - Columbia Univ.
 BA, Barnard

Library liaison to:

- Computer Science
- History
- Humanities and Social Sciences
- Information Systems
- Information Technology



Bruce Slutsky, Reference Librarian
slutsky@adm.njit.edu and (973) 642-4950

MLS - Pratt
 MS, Organic chemistry - Univ. of Rhode Island
 BS, Chemistry - City College of New York

Library liaison to:

- Advanced Engineered Particulate Materials
- Biology
- Biomedical Engineering
- Chemical Engineering
- Chemistry and Environmental Science
- Civil and Environmental Engineering
- Environmental Engineering and Science
- Hazardous Materials Research Center
- Neural Engineering
- Pharmaceutical Engineering
- Transportation



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What is Promotion of Library Sources^A ?

1. Bring together students, faculty, library staff, and resource providers
2. Develop awareness about current library digital and print resources through cooperative efforts of the library staff, vendors and publishers
3. Learn what users want
4. Create an opportunity for serendipity

A. Library Sources = Internet + NJIT Resources

Share Your Marketing Ideas, and See What Worked at Dartmouth
and New Jersey Institute of Technology (Njit) ! ACRL meeting in Baltimore, IEEE, March 31, 2007



13 Years after the Internet: Where Goes Information Literacy?

Richard Sweeney & Haymwantee Singh sweeney@njit.edu 973-596-3208 / 8498

What Promotional Media Are Used?

- 1. Flyers**
- 2. Advertise in student newspaper**
- 3. Student chapters – eg. IEEE**
- 4. Library homepage**
- 5. Facebook**
- 6. Distribution lists –emails**
- 7. University bulletin**
- 8. Etc...**



How Are Library Resources Promoted At NJIT?

Librarian Liaisons have partnered with:

1. Vendors

- a. Elsevier – “Scoop on Scopus”**
- b. IEEE – “Explore IEEE Xplore”**
- c. CAS - “Scifinder Scholar Day”**

2. Student Ambassadors (SAmS)



What Do SAmS Do?

SAm Program – outreach program introduced by Elsevier to promote Scopus and other databases by ...

- 1. Creating awareness across campus**
- 2. Identifying groups and individuals that need database training**
- 3. Organizing training sessions and assisting librarians**
- 4. Helping with peer-to-peer training**
- 5. Providing feedback about product and services**



SAmS Promotion Strategies

- 1. Engage users in laboratories, library, student mall, classrooms, offices, etc.**
- 2. E-mail users**
- 3. Distribute promotional products across campus**
- 4. Post notes and posters across campus**



NJIT's Student Ambassadors (SAmS)



- **Highly enthusiastic**
- **Professional**
- **Reliable**
- **Great team spirit**
- **Great initiative**

Mojisola Otegbeye
PhD, Industrial Engineering

Aysegul Ergin
PhD, Biomedical Engineering

Some successful SAm Programs



- University of Connecticut
- University of Ottawa
- University of Toronto
- New Jersey Institute of Technology
- University of South Alabama
- University of Windsor
- University of Western Ontario
- University of Pittsburgh
- University of North Dakota
- Stevens Institute of Technology
- James Madison University

Elsevier outreach program June 2008



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Feedback about SAM Programs

"The University of Toronto Library entered into the Scopus Ambassador Programme (SAM) with trepidation - how could we allow a publisher to promote the use of their product on our campus? However, we were very aware of the fact that we spend literally millions of dollars on providing access to e-resources for our users and we know that many of them are oblivious to what is available to them. Our library does not market to our users. That is not our tradition."



Warren Holder
Electronic Resources Co-ordinator

Haymwantee Singh
Reference Librarian
New Jersey Institute of Technology



"It's the synergy and the team spirit and the leg work that the SAMs [Student Ambassadors] provide to get us into the classroom or the office or places that we have no time to venture out to. They help open little doors for us so to speak because they have the time..."



“Scoop on Scopus Day”

09/21/2005

wouldn't you?

SCOPUS Find out. www.scopus.com

CHANCE TO WIN A MINI I-POD!!!

FREE CUPCAKES AND CANDIES!!!

FREE GOODIES!!!

Look for SCOPUS STUDENT AMBASSADORS

WHEN: Wednesday, September 21

WHERE: CAMPUS CENTER from 11:30am to 1pm

LIBRARY LOBBY from 1:30pm to 4



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“Scoop on Scopus Day”

Buzz happened at two wireless sites

- **Student Center**
- **Library Lobby**

“Scoop on Scopus Day”



Provide Food!

“Scoop on Scopus Day”



11/01/2006

Empower your users

Our researchers:

Need to find relevant
access more than 100,000 titles on
Scopus with links to full text.

Need quick and accurate searching.
Take the guesswork out of searching with
Scopus A&E

wouldn't
you?

wouldn't
you?

wouldn't
you?

wouldn't
you?

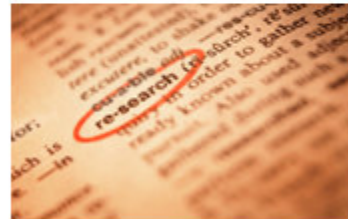
Exhausted and Falling Asleep

“Scoop on Scopus Day”



Peer-to-Peer Relationships

Need Help with IEEE Resources?



Explore the IEEE Xplore database
Main Library Lobby
Wednesday – February 28, 2007
1:00 to 4:00 pm

**Join IEEE-NJIT Student Chapter,
IEEE staff and Library staff for
demonstrations & questions.**

Users will learn advanced tips and new features.

- ✓ Refining your search
- ✓ CrossRef Search
- ✓ Setting up email alerts for your favorite journals
- ✓ How to find pre-published IEEE journal articles
- ✓ And plenty more

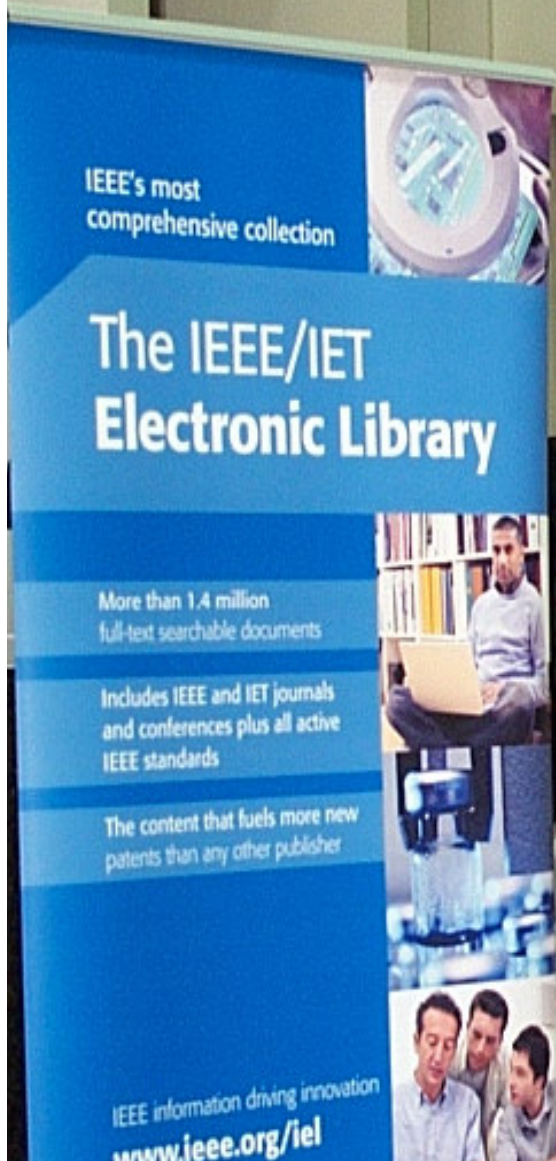
Find an article by an NJIT faculty member in the IEEE Xplore Database and be entered into a raffle to

Win Great Prizes!

**Refreshments
Raffles**

Questions?
[www.ieee.org](#)

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IEEE's most comprehensive collection





The IEEE/IET Electronic Library

More than 1.4 million full-text searchable documents

Includes IEEE and IET journals and conferences plus all active IEEE standards

The content that fuels more new patents than any other publisher

IEEE information driving innovation
www.ieee.org/iel



And Food!

Creating Buzz!



**Bob Magliore –
IEEE student
chapter
president**

Real learning



Provide Handouts

Hands-On Demonstrations

Large Promotional
Poster Tells What
is Happening



facebook

home search browse invite help logout

Explore the IEEE Xplore database

NJIT

Information

edit

Event Info

Name: Explore the IEEE Xplore database
Tagline: free refreshments. chance to win great prizes
Host: IEEE-NJIT Stucent Chapter, IEEE Staff & Library Staff
Type: Education - Workshop



Time and Place

Date: Wednesday, February 28, 2007
Time: 1:00pm - 4:00pm
Location: Main Library Lobby
City: Newark, NJ

Contact Info

Phone: 973.596.8498
Email: ieee.njit@gmail.com

Message All Guests

Invite People to Come

Edit Event

Edit Guest List

Remove from My Events

Cancel This Event

Share + Export

Your RSVP

You are attending.

- Attending
 Maybe Attending
 Not Attending

RSVP

Use Facebook
to promote events

Page Break



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NJIT: Library: Library @ NJIT - Windows Internet Explorer

http://library.njit.edu/ Live Search

File Edit View Favorites Tools Help

Google Go RS Bookmarks 2 blocked Check AutoLink AutoFill Send to Settings

NJIT: Library: Library @ NJIT Page Tools



ROBERT W. VAN HOUTEN LIBRARY

My NJIT | CALENDAR | DIRECTORY | A-Z LINKS | CONTACT US | Search NJIT

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Articles via Databases

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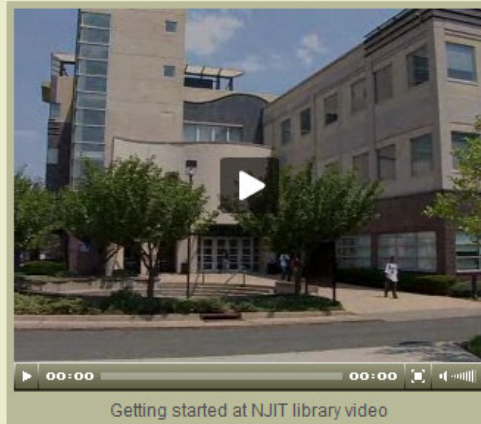
Architecture Library

Home > Library

Welcome to Van Houten Library

Have a question? Type your complete question here **Ask NJIT →**

Ask using real questions like: How do I find a book? [Top 10](#)



Use the Library's main portal to promote events

Hours

Ask a librarian

My library account

Recent research articles by NJIT authors

- [Distributed synchronization in wireless networks: Global synchronization via local connections](#) 2008; IEEE Signal Processing Magazine; Simeone, O. , Spagnolini, U. , Bar-Ness, Y. , Strogatz, S.H.
- [The missing censoring indicator model and the smoothed bootstrap](#) 2008; Computational Statistics and Data Analysis; Subramanian, S. , Bean, D.
- [A method to compute statistics of large, noise-induced perturbations of nonlinear Schrödinger](#)



6 Microsoft O... Absent Control... 5 Microsoft O... 5 Internet Ex... presentations Unesco 10:21 AM



What have we learned?

Very important to:

- 1. Offer prizes, rewards, **Food**, etc...**
- 2. Partner with our vendors, students and faculty**
- 3. Location, location, location - advantageous location for event**
- 4. Have adequate technology**
- 5. Have correct timing in the semester – are term papers due?**
- 6. Is Wednesday a good day?**



Value Added and ROI

- 1. Build relationships with our vendors and end-users**
- 2. Peer-to-peer programs– involve students such as IEEE student chapter, SAmS, etc.**
- 3. Empowered users**
- 4. Library liaison programs – key to creating awareness**



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NJIT's Librarian Liaisons – what do they do?

1. **Single point of contact for all library services**
2. **Promote library services and resources**
3. **Promote and advance information literacy programs by **partnering with faculty****
4. **Select and purchase resources such as books for liaison departments**



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Faculty-Librarian Partnerships

Goal: Promote and advance information literacy programs by partnering with faculty

- 1. Get involved in department seminars**
- 2. Find courses that have IL components**
- 3. Attend student presentations**
- 4. Look out for programs that will enhance your users experiences**



IL – Self-Learning Approach

- 1. Prepare! - understand the subject matter**
- 2. Define your objectives **clearly****
- 3. **Develop assignments** to test objectives**
- 4. **Guide** the students to become **self-learners****
- 5. **Make it fun** – engage the students**
- 6. Begin with www.google.com**



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Conclusions

IL is owning our own self-learning.

IL is part of peer-to-peer learning.

IL is part of critical thinking.

IL is part of lifelong learning.

Information Literacy is the set of skills needed to find, retrieve, analyze, and use information (ACRL)



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Thanks for your kind attention.

NJIT

THE EDGE IN KNOWLEDGE

- **Powerpoint (available at:**
- **<http://library1.njit.edu/staff-folders/sweeney/>**



New Jersey's Science & Technology University

THE EDGE IN KNOWLEDGE