

# *NUS Libraries in an E-learning Environment*



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# *Outline of Talk*

- Library portal
  - Library and the Integrated Virtual Learning Environment (A Learning Management System developed in-house by Centre for Instructional Technology)
  - Virtual user education programs
  - Future plans
-

# *NUS Libraries*



Central Library



Chinese Library



Hon Sui Sen  
Memorial Library



Science Library



Medical Library



Music Library



C J Koh Law  
Library @ BTC



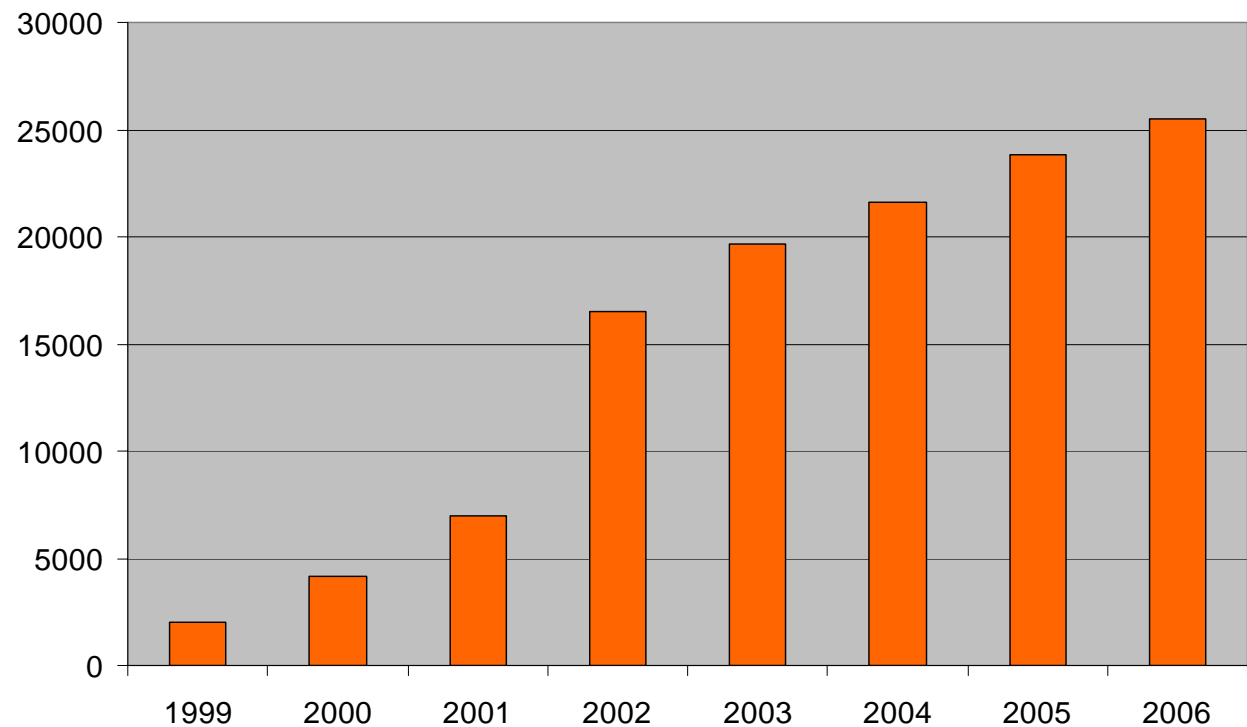
# *Library Collection*

- **Print resources**
    - > 2.8 million volumes
    - > 1.2 million titles
    - > 13,000 current journals
  - **E-Resources:**
    - > 19,000 ejournals
    - > 12,000 ebooks
    - > 250 databases
-

# *Growth of E-Resources*

The number of e-resources has grown more than 12 folds from 1999 to 2006

No. of E-Resource Titles



# *Library Portal*

- Provides desktop single sign-on from campus network
  - Single sign-on from portal to databases, ejournals, ebooks, myLINC, and e-forms
  - Allows personalization of portal homepage based on preferences
-

# Library Portal

- Launched in August 2004
- Introduced new user interface in Jan 2006
- Use BEA WebLogic 8.1 portal platform
- One-stop service for e-resources, my library records, and e-forms

The screenshot shows the NUS Libraries website interface. The top navigation bar includes 'Home', 'LINC', 'E-Forms', 'E-Resources', 'FAQ', and 'About Us'. The main content area is divided into three columns:

- Services (Green border):** Contains 'Member Login' (with 'LOGIN' and 'myLINC' buttons), 'Library Instruction ONLine (LION)', a 'How do I ...' dropdown menu, 'Contacts & Feedback' (with links for contact, technical problems, and surveys), and 'Quick Links' (listing IVLE, Media Gallery, Computer Centre, Registrar's Office, and Student Affairs).
- Resources (Pink border):** Features 'E-Resources' (listing Databases, E-Journals, E-Books, E-Newspapers, and InfoGate), a search box for 'Database/E-Journal/E-Book Title', 'Search Library Integrated Catalogue (LINC)' with 'Find:' and 'By:' dropdowns, 'Major Databases' (listing ABI/Inform, BIOSIS, Business Source Premier, etc.), and 'Course Materials' with a search box for 'Exam Papers by Module Code'.
- Information (Blue border):** Includes a 'Welcome to NUS Libraries Portal' banner, 'Opening Hours' (5 May - 6 Aug 2006) for Central Library and Special Libraries, 'News' (03/05/06 Electronic version of Sibu Congkan), and 'Events'.

At the bottom, three colored labels identify the sections: 'Services' (green), 'Resources' (pink), and 'Information' (blue).

# Personalization

Users can set preference for their favorite databases, ejournals, and ebooks by subject

The screenshot shows the NUS Libraries website interface. At the top, there is a navigation bar with links for Home, myLINC, E-Forms, E-Resources, FAQ, About Us, and Preferences. The Preferences page is active, showing a Member Login section with the name NG KOK KOON and a LOGOUT button. Below this is a section for Library Instruction ONLINE (LION) with a dropdown menu for 'How do I ...'. The main content area is titled 'Available Groups To Subscribe' and lists various subjects. 'Chemistry' is circled in pink. To the right of the list is a 'Select To Subscribe' section with checkboxes for various chemistry sub-fields and a 'Subscribe' button.

**NUS Libraries > Preferences**

**Member Login**

Name : NG KOK KOON  
[LOGOUT](#)

.....  
**Note: If this is not your name, please LOGIN again.**

[Ask a librarian](#)

**Library Instruction ONLINE (LION)**

How do I ...  
 Select a topic

**Contact Us:**

- Contact us
- Report Technical Problem
- Comments & Suggestions
- Library Survey

**Quick Links:**

- IVLE
- NUS Media Gallery

**Available Groups To Subscribe**

- Biological & Life Sciences
- Business
- Chemistry \***
- Clinical Medicine & Dentistry
- Computer Science
- Design & Environment
- Economics
- Engineering & Technology
- Engineering, Chemical & Environmental
- Engineering, Civil
- Engineering, Electrical & Computer
- Engineering, Industrial & Production
- Engineering, Mechanical
- Finance
- General Interest
- History & Geography
- Humanities & Art
- Language & Literature
- Law
- Malaysia
- Management
- Materials Science
- Mathematics & Statistics
- Music
- Physics
- Political & Military Sciences
- Science
- Singapore
- Social Sciences
- Sociology & Social Work

Select To Subscribe:

- Analytical chemistry
- Chemistry
- Crystallography
- Inorganic chemistry
- Organic chemistry
- Physical & theoretical chemistry
- Polymers
- Spectroscopy

check All / clear All

[Subscribe](#)



# Personalized Library Portal

**Contacts & Feedback**

- Contact us
- Report Technical Problem
- Comments & Suggestions
- Library Survey

**Quick Links**

- IVLE
- NUS Media Gallery
- Computer Centre
- Registrar's Office
- Office of Student Affairs
- NUSSU

**NUS LIBRARIES**

**VISION**  
To be a premier knowledge hub that promotes the University's global knowledge enterprise vision

**MISSION**  
To deliver just-in-time information with passion and a smile

**Library Intranet**  
for library staff only

**My Favourite Databases/E-Journals**

ACM Transactions on Software Engineering and Methodology  
 ▪ Advanced Engineering Informatics ▪ Canadian Patents Database  
 ▪ Chemical Engineering Journal ▪ Compendex (Engineering Village 2)  
 ▪ Computers and Electrical Engineering ▪ Factiva ▪ Heat Transfer Engineering  
 ▪ IEEE Xplore (was IEEE/IEE Electronic Library Online) ▪ INSPEC (Engineering Village 2)  
 ▪ Journal of Applied Physics ▪ Main Economic Indicators ▪ Web of Science

To remove favorites click [HERE](#)

**My Notifications**

You Have 2 Notices.

**My New Books**

Subscription	No. of Titles
Business	39
Economics	9
Finance	20
General Interest	4
Management	39
Sociology & Social Work	77

**My Databases by Subject**

Engineering & Technology ▪ Engineering, Chemical & Environmental

**My E-Journals by Subject**

Engineering, Chemical & Environmental ▪ Engineering, Electrical & Computer  
 ▪ Engineering, Mechanical

**My E-Books by Subject**

Engineering, Chemical & Environmental ▪ Engineering, Electrical & Computer  
 ▪ Engineering, Mechanical

**News** + all

- 19/04/06 Staff Information Needs Library Survey
- 12/04/06 **Vacation Opening hours**

**Events** + all

**Art Corner**

- Portraits of Arthropod

**Book Cover**

- Excellence in Teaching & University Education (Mar 2006)

Favorite databases & e-journals by title

Overdue and pick-up notices from library

New books by subject

Favorite databases, e-journals, & ebooks by subject

# myLINC

Check personal library record

- Holds & items checked-out
- Library notices
- New books by subject

**MyLINC**

Your library record:

- Search the Catalog
- 2 requests (holds).
- Preferred Searches
- 6 Items currently checked out
- Modify PIN

**Library Notice**

Type	Count	Date	Action
	2	30-Jul-06	View   Delete

**My New Books**

SubscriptionNo.	of Titles
Singapore	42

**Member Logout**

Name : NG KOK KOON  
LOGOUT

Note: If this is not your name, please LOGIN again.

Ask a Librarian

**Library Instruction ONLINE (LION)**

How do I ...  
Select a topic

**Contacts & Feedback**

- Contact us
- Report Technical Problem
- Comments & Suggestions
- Library Survey

**Quick Links**

- IVLE
- NUS Media Gallery
- Computer Centre

# E-Forms

E-forms listed according to role of user: staff, graduate or undergraduate students

The screenshot displays the NUS Libraries website interface. At the top, the NUS logo and 'NUS Libraries' text are visible. A teal arrow points to the 'E-Forms' menu item in the navigation bar. Below the navigation bar, the 'E-Forms' section is highlighted with a pink rounded rectangle. This section is titled 'E-Forms for Staff' and contains a list of forms:

- 1. Ask A Librarian
- 2. Advance Booking form for Audio-Visual Materials
- 3. Audio/Video-on-Demand Request Form
- 4. Change of Mail and/or Email Address
- 5. Form for Fines Payment by Cash or Cheque
- 6. Form for Reporting of Lost Book  
English | Chinese (GB) | Japanese (Shift-JIS)
- 7. Request to Activate Visitor Accounts for Digital Library access
- 8. Request for Document Delivery (DDS)

## *Integrated Virtual Learning Environment (IVLE)*

- IVLE is the university's e-learning portal through which NUS academics develop content and students access their educational resources, interact and learn.
- Students use IVLE widely and rate it highly

## *E-Reserves*

- In May 2003 the library leveraged on IVLE to provide electronic readings
  - Readings can be accessed anytime, anywhere
  - Includes both scanned documents and direct links to subscribed e-resources
  - Restricts to students taking the course and ensures compliance with Singapore's copyright requirements
-

# E-Reserves

- List of modules a student has registered is displayed in My Module after login
- Reserve readings are listed under the heading 'Library Resources'

The screenshot shows the IVLE My Workspace interface for a user named Miss Wong Kah Wei. The interface includes a navigation bar with links for HOME, MY WORKSPACE, SEARCH, EMAIL, SUPPORT, and LOGOUT. A welcome message is displayed at the top. On the left, there is a 'MY ORGANIZER' section with a calendar for January 2006 and a 'STUDENT EVENTS' section. The main content area is titled 'My Modules' and lists two modules: BMA5251 Management of Technological Innovation and GEK1013 RETHINKING TECHNOLOGY, ORGANISATIONS & PEOPLE. Under BMA5251, there are several 'Library Resources' listed, including 'BMA5251 Eresources' and 'Main Reading List'. Two callout boxes with arrows point to these resources: one pointing to 'BMA5251 Eresources' with the text 'Leads to search map, electronic resources.' and another pointing to 'Main Reading List' with the text 'Leads to list of readings.' On the right side, there is an 'ADMINISTRATION' section with a list of links: Module, Class Management, Distribution List, GradeBook, Announcement, Lesson Plan, Forum, Workbin, Project, Assessment, Survey & Polls, Module FAQ, and Multimedia.

# E-Reserves


Readings are provided in a mixture of:

- PDF documents
- Persistent links to the HTML or PDF documents
- Hyperlinks to the online catalog records of books

**IMPORTANT NOTICE**


**To download or print a reading :**

**EITHER**

- Click the download icon [  ] >> Click on OK.
- Do not abort the download process before it is completed.
- You can only access or download/print each file ONCE. This is in accordance with copyright guidelines.

**OR**

- Click on the blue hyperlink.
- A record containing the full text (HTML or PDF) will appear.
- Download or print.
- If a record appears which contains the Location and Call No. of the book but no full text, go to the Location stated in the record (eg. HSSML RBR Loans Desk is Hon Sui Memorial Library's Loans Desk) and give the staff at Loans Desk the Call No. of the book.














**To view the reading only (no download), click on [  ].**

Library E-Reserves has 7 files

Search box

PDF files of scanned book chapter

File Name/Description:  Search Reset

No	DL	View	File name and Web address	Size
1			 Robbins-Roth, Cynthia (2000). From Alchemy to IPO : the business of biotechnology, Chapter 2 (Genetec) (robbinsroth.pdf)	1 KB
2			 <a href="#">Schumpeter, J. (1943), Capitalism, socialism, and democracy, 2nd ed.</a>	
3			 <a href="#">Rosenbloom and Cusumano (1987), "Technological pioneering and competitive advantage: the birth of the California Management Review.</a>	
4			 <a href="#">Utterback, James (1994), "Dominant designs and the survival of firms," Chapter 2 in Mastering the Dynamic Environment, Harvard Business School Press, pp. 23-37 and 91-96.</a>	
5			 Utterback, James (1994), "Dominant designs and the survival of firms," Chapter 2 in Mastering the Dynamic Environment, Harvard Business School Press, pp. 23-37 and 91-96. DO NOT PUBLISH. HARVARD MATERIAL(utterback.pdf)	1 KB
6			 Foster R. (1986). "The S-curve : a new forecasting tool," Chapter 4 in Innovation : the Attacker's Advantage (foster.pdf)	1 KB
7			 <a href="#">Henderson and Clark, (1990), "Architectural Innovation: the reconfiguration of existing product technologies and the failure of established firms," Administration Science Quarterly.</a>	

Persistent links to articles in electronic databases

Hyperlink to online catalog record

# *E-Reserves*

## Automatic alert system

- When professors add or amend their reading lists the system will send an email alert to the library highlighting the changes made to the list






# E-Reserves

Input Screen for professors

Email received by librarian

 **Text & Readings**

➔ Formatted

<b>Type :</b>	Compulsory Reading place in RBR	
<b>Title :</b>	Introduction to operations research	* required
<b>Author :</b>	Smith, John	
<b>Edition :</b>	8th	e.g. 3e
<b>Publication Year :</b>	2004	e.g. 2001
<b>Publisher :</b>	Prentice Hall	
<b>ISBN :</b>	123456789	e.g. 1565923928
<b>Additional Info :</b>		
<b>NUS Libraries :</b>	<input checked="" type="checkbox"/> Notify NUS Libraries	
	Hon Sui Sen Memorial Library	* required

## Lecturer Details

Lecturer Name: WONG KAH WEI  
Lecturer Email: [hlbwkw@nus.edu.sg](mailto:hlbwkw@nus.edu.sg)  
Faculty: Non-Faculty-Based Departments

## Module Details

Module Code : HML5002  
Module Title : Art History  
Class Size: 0  
Module Owner :

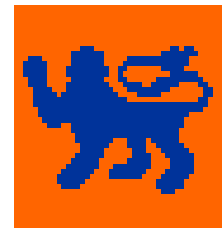
## Text and Reading Details

Type: Compulsory Reading place in RBR  
Title: Introduction to operations research  
Author: Smith, John  
Edition: 8th  
Publish Year: 2004  
ISBN: 123456789  
Additional Info:  
Created Date: 9/15/2005 4:41:34 PM  
Modified Date: -

# *Virtual User Education*

## *Promotion of information literacy*

- LION (Library Instruction Online)
- Instructions available includes :
  - how to use LINC and Online databases
  - Citation styles
  - Online tutorials



# Virtual User Education

- Bibliographies, search maps and online guides were placed in IVLE to complement library tutorials
- “Ask A Librarian” link added for students to email the librarian

## BMA5251 - Management of Technological Innovation

Created: 02 Jan 2002, Updated: 29 Dec

<b>Module Code</b>	BMA5251		
<b>Module Title</b>	Management of Technological Innovation		
<b>Semester</b>	Semester 1 & 2, 2005/2006		
<b>Modular Credit(s)</b>	4		
<b>Department</b>	Business Policy		
<b>Teaching Staff</b>		<b>SOH PEK HOOI</b>	bizsohph@nus.edu.sg    Lecturer
<b>Library Resources</b>	<p>List of databases of company financial information,</p> <p>Search map - how to search for information for your project</p> <p><a href="#">Ask a Librarian</a></p>		

# Virtual User Education

Search maps are web pages delineating relevant databases, keywords and search strategies

**BMA5112 - Asia In The Global Economy (2006)**

Please direct enquiries on information searches to : [Kho Su Yian](#)

To guide students in their assignments or projects, Hon Sui Sen Library demonstrated the use of various databases and resources to find the information. Here are some of the items we covered during the demonstration.

## **Locating Country Reports**

### **Databases recommended**

[EIU.com](#)

[ISI Emerging Markets](#)

[Source OECD](#) (Only Asian countries covered are Japan and Korea)

## **Locating Industry and Company information**

### **Databases recommended**

[Business Source Premier](#) ([Online guide in WMV file](#))

[Global Market Information Database](#)

[Factiva](#) ([Online guide in WMV file](#))

[Oriana](#)

[Osiris](#)

[SGX website](#) (for Singapore-based companies)

[Factiva](#)

### **Newspapers and Magazines recommended:**

Unless otherwise stated, links to publishers' sites will not provide full-text or premium content, as tl

[Business Times](#) - Full-text access via [Factiva](#) and [LexisNexis Academic](#); [Publisher's site](#).

[Business Week](#) - Full-text access via [Publisher's site](#) (Eastern edition) and [Business Source Premier](#).

[The Economist](#) - Full-text access via [Business Source Premier](#) and [ABI/Inform](#); [Registration](#) required

# *Virtual User Education*

- Utilize Emeetings, a service provided by CIT, to conduct online meetings over the Internet
  - Librarian creates a virtual meeting place where she demonstrates searches on databases and answers questions from the students
  - Hon Sui Sen Memorial Library piloted this service in Aug 2005
  - Students from Great Britain, United States, Japan and the Middle East
-

# Virtual User Education

## Emeetings

The screenshot displays a web browser window with the address bar showing `http://web3.epnet.com.libproxy1.nus.edu.sg/search.asp?tb=`. The main content area is the EBSCO Research Databases search page. It features a navigation bar with buttons for 'Basic Search', 'Advanced Search', 'Choose Databases', and 'Select another EBSCO service'. Below this are buttons for 'Keyword', 'Publications', 'Company Profiles', 'Thesaurus', 'Indexes', and 'Cited References'. The current database is 'Business Source Premier'. The search criteria are:

- Find: (hiv or aids) in SU Subject Terms
- and (perception\* or perceiv\*) in Default Fields
- and third person effect in TX All Text

On the right side, there is a virtual meeting sidebar. It includes a 'Participants' list with the following names: Kah Wei (Libra...), Gabriel, Karen, Lynette, Mani, Ruby Seng, and Swee Lian. There are also icons for 'Invite', 'Mute', 'Unmute', and 'Video On/Off'. Below the participants is an 'Agenda' section with an 'Import' button and an 'Agenda' list.

# *Virtual User Education*

## Future plans

- Create a more sophisticated virtual classroom within IVLE to teach information literacy skills
- Track search behavior
- Interact more with our students

# NUS Media Gallery

- Serves as the central storage for digitized media resources in NUS
- Joint project with CIT
- Includes audio-visual materials, images, and graphics
- Professors can make use of these resources easily for their teaching
- Launched in August 2002

The screenshot shows the NUS Media Gallery website. At the top, there is a navigation bar with the NUS logo and the text 'National University of Singapore'. To the right of the logo is a search bar with the text 'Search: [input] in NUS Websites [dropdown] [Go]'. Below the navigation bar is a menu with links for 'HOME', 'ABOUT US', 'ONLINE TUTORIAL', and 'FAQs'. The main content area has a search bar with the text 'Search: [input] Go Advanced...' and a link for 'NUS Media Gallery : edmspublic Categories'. Below this is a 'Folders' section with a list of categories: 'Arts and Culture', 'Conference and Seminar', 'Faculties and Schools', 'Global Alumni and Networking', 'NUS Centennial Events', 'NUS Communities', 'NUS Enterprise', 'NUS Everest Expedition', 'Public lectures and Workshop', 'Research Centres and Institutes', 'University Administration', and 'University Events'. The 'Files' section is currently selected, showing a list of items. The list has columns for 'Sort by:', 'Title', 'Description', 'Keywords', and 'Date'. The items listed are: 1. 'Visit by Dr Abdul Kalam - President of India' (Date: 2006 Feb 1), 2. 'Lee Kuan Yew School of Public Policy Public Lecture :Taiwan's New Thinking' (Date: 2006 May 08), and 3. 'Lee Kuan Yew School of Public Policy Public Lecture :The Situation in the Middle East' (Date: 2006 May 17). Each item has a small thumbnail image and an information icon (i).



# *Future Project*

- Virtual reference service
    - Use instant messaging – Microsoft Office Communicator
    - In the final stage of Virtual User Education project
    - Working out the publicity materials
    - Training of staff will begin soon
    - Target date is Sept 2006
-

*Thank  
you!*



*Vanda Miss Joaquim*