Increasing Accessibility to Electronic Resources – Experiences of the NUS Libraries

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NUS Libraries

Central Library
Chinese Library
C J Koh Law Library
Hon Sui Sen Memorial Library
Medical Library
Science Library
Central Library

Collection focus

- Singapore/Malaysia Collection
- Architecture
- Building & real estate
- Engineering
- Arts & humanities
- Social sciences
Chinese Library

Third largest outside China

Collection focus
- Chinese studies
- Japanese studies
- South East Asia
- Classics
- Chinese Overseas
- China Journal Net
C J Koh Law Library

The nation’s most comprehensive law library
Named after the late Mr C J Koh

Collection focus:
- Singapore law
- UK law
- US law
- ASEAN law
- China law
Hon Sui Sen Memorial Library

Established in memory of the late Mr Hon (1916-1983), former Minister for Finance

Collection focus:
- Business
- Finance
- Management
- Annual reports of Singapore companies
Medical Library

Founded in 1905

The nation’s most comprehensive medical library

Collection focus:
- Medicine
- Dentistry
- Pharmacy
Science Library

Collection focus:

- Biological sciences
- Chemistry
- Computer science
- Mathematics
- Statistics & applied probability
- Materials science
- Physics
Membership as at Apr 2004

Staff 7,500

Teaching 2,358
Researchers 1,609

Students 34,334

Graduates 10,390

External 8,888

Total 50,441
Serving beyond NUS

Providing services to:

- Alumni
- Faculty & students of tertiary institutions
- Public sector institutions
- R&D organisations
- Commercial firms
- Distance learners
- International researchers
Library Collection ... as at June 2004

Printed resources

- Books
- Journals
- Total print

Unique Titles
1,145,457
43,034
1,188,491

Internet resources

23,453

Media programmes

22,149

Microform resources

23,626
Library Collection ... as at June 2004

Printed resources

- Books
- Journals
- Total print

Volumes

1,619,901
699,215
2,319,116

- Current active journal subscriptions
- Current active paid

13,512
9,694
Increasing accessibility ...

- Enhance our library catalogue
- Expand the Digital Library
- Federated search
- Library portal
Growth in Digital Library

- From 1999-2003, the number of electronic resources subscribed by the NUS Libraries increased 9 fold.
E-Journals

- Direct links to the full text journals via LINC or Digital Library
- > 12,789 titles
- Includes publishers like
  - American Chemical Society
  - Blackwell Publishers - Synergy
  - Cambridge University Press
  - Elsevier - ScienceDirect
  - Oxford University Press
  - Kluwer – Kluwer Online
  - Springer – Springer LINK
Digital Library Databases

• Over 100 titles on the Web
  - ABI/Inform
  - Business Source Premier
  - Factiva
  - Global Market Information Database
  - IEEE Xplore
  - INSPEC
  - LEXIS.com
  - SciFinder Scholar
  - EconLit, PsycInfo, Sociological Abstracts
  - Web of Science: AHCI, SCI, SSCI
E-Books on the Web

- Direct links to the ebooks on the Web through LINC or Digital Library
- More than 8,600 titles
- Includes publishers like netLibrary, Springer, Singapore University Press
Full Text CD-ROMs

- Patents (US, EP & WO)
- Standards (ASTM, BS, ISO, ITU)
- Asia: Official British Documents 1945-65
- Dictionaries, encyclopaedias, directories
- Newspapers & magazines (including Chinese & Japanese titles)
- Law reports (Australia, England)
- Drug & chemical information
Library Projects

• Digital projects
• Indexes
• Library publications
• Table of contents
• Preservation
• Online art galleries
Digital Projects

- Digital Media Gallery
- Video/Audio-on-Demand
- Examination Papers
- Ebooks
Digital Media Gallery

- Aims to centralise depository of digitized resources for the campus community
- Joint collaboration with Centre for Instructional Technology
- Audio, videos, images, and clip art
- Two photograph databases:
  - Historical photos of NUS
  - Vanishing scenes of Singapore
Digital Media Gallery

• Navigation features for videos:
  ➤ Keyframe time slider – moving the mouse through the slider bar changes the keyframes
  ➤ Video summary page – larger keyframes represents higher importance segments
  ➤ Clicking on these frames starts the video playback from the beginning of that segment

• Teaching faculties can easily incorporate these files into their courses
Video/Audio-on-Demand

• Implemented via the campus network since June 1995.

• Licensed audio and video programs are streamed to students’ desktops anywhere on campus via IVLE (Integrated Virtual learning Environment) and LINC.

• Most programs are course materials.

• Copyright clearance was obtained.

• Access is restricted to students taking the course.

• 193 courses using this service.
Examination Papers

- Search by course number, course name, department, faculty
- Search engine used is BRS/Search
- Restricted to staff & students only
Singapore University Press Books

• Arranged with the Singapore University Press to digitize ten books.

• Access is restricted to NUS students and staff.

• Launched in July 2001.

Ebooks/Conferences by Publisher: Singapore University Press

<table>
<thead>
<tr>
<th>Codes</th>
<th>Ebooks/Conferences</th>
</tr>
</thead>
<tbody>
<tr>
<td>W</td>
<td>City and the Forest, The: Plant Life in Urban Singapore by Wei, Yeow Chin (1986)</td>
</tr>
<tr>
<td>W</td>
<td>Dynamics of One Party Dominance, The: the PAP at the Grass-roots by Chen, Heng Chee (1976)</td>
</tr>
<tr>
<td>W</td>
<td>Geo-strategy and the South China Sea Basin: Regional Balance, Maritime Issues Future Patterns by Lim, Joo-Jock (1979)</td>
</tr>
<tr>
<td>W</td>
<td>Malays and Modernization: a Sociological Interpretation by Tham, Seang Chee (1963)</td>
</tr>
</tbody>
</table>
Indexes

Perind

- Index to articles, book chapters, & conference papers relating to Singapore, Malaysia, Brunei and ASEAN (as an entity). With citations from more than 200 core titles of local and international journals.
- With full-text links to selected citations.
Indexes

- Southeast Asian studies database
- Index to Singapore acts
- Index to Singapore subsidiary legislation
- Future projects

Chinese Overseas Periodical Index
Library Publications

- **LINUS**: Newsletter of the NUS Libraries
  - Published four times a year.
- **SMC Ondisc**
  - Published by RMIT Publishing of the Royal Melbourne Institute of Technology, Australia in association with the National University of Singapore Libraries. It contains three databases: PERIND, Singapore/Malaysia Collection, and NUS Theses Collection.
Library Publications

- Singapore Literature: a Select Bibliography of Critical Writings
  - Contains English-language publications on Singapore literature, Singapore fiction, Singapore poetry and Singapore drama & theatre.

- Statistics on Singapore: an Annotated Bibliography of Sources
  - Lists publications held in the NUS Library and relevant web sites containing statistical data on Singapore for the period 1965 onwards.
• Primary Materials on Chinese Education in Singapore, 1819-1959
  ➢ Includes government documents, gazette, newspaper reports, curriculum, magazines, journals, etc.

• A Sense of History: a Select Bibliography on the History of Singapore
  ➢ Lists primary and secondary sources on the history of Singapore from its earliest times to independence and thereafter. With entries in English, Chinese, Malay, and Japanese.
• Began adding the table of contents of Chinese books with Singapore/Malaysia contents in the library catalog (LINC) in 1999.

• Purchase table of contents for English books from BNA for LINC from 1999.

• Future project:
  Add table of contents into LINC for Master and PhD dissertations submitted to the Department of Chinese Studies
Preservations

- Newspapers
- Rare books
- Speeches
Preservation

Lat Pau (叻报)

- The oldest Chinese newspaper published in Singapore
- Started by Mr See Ewe Lay (薛有礼) in 1881 and ceased publication in 1932
- NUS Libraries have digitized from 1887 – 1932.
- Future projects: Sin Kok Min Jit Pao

Lat Pau, the longest running Chinese daily during pre-War Singapore, was started by Mr See Ewe Lay in December 1881 and lasted 52 years before it finally ceased in March 1932. Lat Pau is an invaluable historical source for research into pre-war Singapore as well as Chinese overseas during that period. Unfortunately the earliest issues of the newspaper were lost and now the issues extant at the NUS Chinese Library cover only the period August 19 1887 to March 31 1932.
Preservation

Journal of three voyages along the coast of China in 1831, 1832, & 1833, with notices of Siam, Corea, and the Loo-Choo islands by Charles Gutzlaff

Title page
Contents
Illustration & Map
Brief notice of China and Siam, and the labours of Protestant missionaries in these and the adjacent countries
Introduction, Intercourse with China
Journal of a residence in Siam, &c.
Chapter I
Chapter II
Chapter III
Chapter IV
Journal of a second voyage along the coast of China, &c.
Chapter I
Chapter II
Chapter III
Page 1
Page 61
Page 74
Page 102
Page 159
Page 172
Page 214
Page 238
Preservation

• Three rare books on Singapore in the Japanese language

• Future projects
  ➡️ More rare books
Preservation

- Speeches
  - NUS production
  - Speeches by distinguished speakers are digitized and archived
- Beta test site for LOCKSS project by Stanford University
Online Art Gallery

Partial list of the paintings received from generous donors.
The late Mr Koh Choon Joo (1901-1997) Online Gallery was created in remembrance of his generosity and vision.
E-reserves

- Pilot project introduced in July 2002 with links to subscribed journals articles.
- Links were listed in the reserve reading lists in LINC.
- From July 2003 e-reserve is mounted on IVLE.
- Includes both scanned documents and direct links to subscribed journal articles.
- Access is restricted to students taking the course.
Document Delivery Service

- Users send request forms online to the library.
- Library sends orders to suppliers using Ariel.
- Documents received electronically are sent to the desktops of our users.
- Service was introduced in October 1998.
- Web-based query system was launched in Dec 2002 to allow users to check the status of their requests.
LION

- Library Instruction Online
- Launched in 1999 to promote information literacy
- Teaches users how to:
  - locate and evaluate information
  - search LINC
  - search major databases for articles
  - cite references
  - research a topic
- Includes online tutorials
- Also available in the Chinese language
InfoGate

- Federated search service: one search across multiple databases
- Includes indexes & abstracts, journal publications, and library catalogs
- Links from bibliographic citations to full-text documents
- Checks local holdings
- Powered by ENCompass and LinkFinderPlus from Endeavor
InfoGate Search Screen

Search an entire collection, or any number of resources from a collection or from different collections.
InfoGate Search Results

Search results are displayed separately for each database

Results Summary

You did a Free Text search for "Singapore"

<table>
<thead>
<tr>
<th>Collection</th>
<th>Search Status</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Arts and Humanities</strong></td>
<td>30 Hits</td>
</tr>
<tr>
<td>Arts and Humanities Citation Index</td>
<td>30 Hits</td>
</tr>
<tr>
<td>Social Sciences Citation Index</td>
<td>30 Hits</td>
</tr>
<tr>
<td>MLA International Bibliography</td>
<td>50 Hits</td>
</tr>
<tr>
<td><strong>Art Abstracts</strong></td>
<td>60 Hits</td>
</tr>
<tr>
<td>Humanities Abstracts</td>
<td>60 Hits</td>
</tr>
<tr>
<td>Expanded Academic ASAP Int Ed</td>
<td>50 Hits</td>
</tr>
<tr>
<td>Sociological Abstracts</td>
<td>50 Hits</td>
</tr>
<tr>
<td>Philosopher's Index</td>
<td>25 Hits</td>
</tr>
<tr>
<td>LLBA</td>
<td>50 Hits</td>
</tr>
<tr>
<td>Grove Dictionary of Art</td>
<td>30 Hits</td>
</tr>
</tbody>
</table>
Links to Full-Text

Links to full text document, NUS Libraries holdings as well as other library catalogs
Proxy Server

- Provide easy off-campus access to e-resources
- Users not required to configure proxy in their browsers
- Service began in March 2003
- Use the proxy to monitor usage
- Future development: real time warning to users who download excessively
Library Portal

• Single sign-on
  – To myLINC, library proxy, and electronic forms

• Personalization
  – Extensive list of subject categories to indicate areas of interest
  – Preferences will be stored in users’s profile so that only the news, events, new book arrivals and eResources which match his profile will be displayed

• Use BEA WebLogic portal platform
Alert Services

- Users receive automatic email alerts when the library acquires items matching saved searches in LINC (by author, subject, keyword).
- In future alert services, will be extended to electronic journal articles using InfoGate.
Wireless Services

- Use CISCO wireless card on the campus’ wireless LAN covering all open areas (launched in 2001).
- Infrared connection to campus network using PDA (launched in 2001).
- Search library catalog via WAP enabled mobile phone (launched in 2001).
- AirLINC, library catalog on pocket PC (expected launch date – Late July 2004).
Experiences

- Support from management
- Dedicated library & IT staff
- Good IT infrastructure
- Funding
- Willing publishers
Challenges

• How do we strike a balance between print and online access?
• How to provide more services with less funding?
• What other value-add services can we provide to meet user demands?
• What to do when publishers increase their fees sky-high?
Thank you!