Collections on Science, Technology and Agriculture Assessed

by Ana Maria B. Fresnido and Willian S.A. Frias

In 2001, the DLSU Library conducted an assessment of the Library’s collection employing the list checking method using the *Books for College Libraries (BCL)* published in 1988. In 2004, a re-assessment for the Technology and Engineering collections was carried out. The same method was applied but with the use of a different list which is the *Best Books for Academic Libraries (BBAL)* published in 2003. The BBAL was selected as the tool because the selections very well fit academic libraries like the DLSU Library.

In SY 2005-2006, as part of the Library’s collection development program, it was decided that the whole library collection be re-assessed. The BBAL was again used using the same checklisting method. The following are the results of the study made on the science, technology and agriculture collections. It is hoped that this may serve as guide for the improvement of the collection in the fields of science, agriculture and technology, specifically in terms of quality as reference for budget planning.

The assessment of the collection was undertaken to find out the extent of best titles included in the science, technology and agriculture book collections of the DLSU Library.

Specifically, this study aims to:
1. provide a quantitative and qualitative profile of the DLSU Library’s book holdings in science, technology and agriculture
2. compare quantitatively and qualitatively the DLSU book holdings in science, technology and agriculture against titles cited in BBAL
3. seek answers to the following:
   - What proportion of the citations on the list has exact matches in the DLSU Library?
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Library’s book holdings?
- What proportion of the citations on the list has matches in different editions in the DLSU Library’s book holdings?
- In what areas are the matches in DLSU Library book holdings strong or weak?
- In general, how does the DLSU Library’s collection fare with the lists?

4. Find out the average number of book acquisitions per year in the fields of science.

Since a previous assessment on the Engineering and Technology has already been conducted in September 2004, only the following class letters were included in the study:

<table>
<thead>
<tr>
<th>Class Letter</th>
<th>Subject Area</th>
<th>Total No. of Titles Available</th>
<th>BBAL</th>
<th>%</th>
<th>DLSU</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q</td>
<td>Science (General)</td>
<td>377</td>
<td>8.60</td>
<td>1469</td>
<td>5.90</td>
<td></td>
</tr>
<tr>
<td>QA</td>
<td>Mathematics</td>
<td>462</td>
<td>11.20</td>
<td>10990</td>
<td>44.60</td>
<td></td>
</tr>
<tr>
<td>QB</td>
<td>Astronomy</td>
<td>362</td>
<td>8.00</td>
<td>465</td>
<td>2.00</td>
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<tr>
<td>QC</td>
<td>Physics</td>
<td>780</td>
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<td>3806</td>
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<td>QD</td>
<td>Chemistry</td>
<td>335</td>
<td>7.40</td>
<td>3169</td>
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<tr>
<td>QE</td>
<td>Geology</td>
<td>273</td>
<td>6.22</td>
<td>359</td>
<td>1.45</td>
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<tr>
<td>QH</td>
<td>Natural history (General), Biology (General)</td>
<td>652</td>
<td>14.95</td>
<td>1881</td>
<td>7.60</td>
<td></td>
</tr>
<tr>
<td>QK</td>
<td>Botany</td>
<td>265</td>
<td>6.00</td>
<td>556</td>
<td>2.30</td>
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<tr>
<td>QL</td>
<td>Zoology</td>
<td>464</td>
<td>10.34</td>
<td>710</td>
<td>2.90</td>
<td></td>
</tr>
<tr>
<td>QM</td>
<td>Human anatomy</td>
<td>28</td>
<td>0.64</td>
<td>96</td>
<td>0.39</td>
<td></td>
</tr>
<tr>
<td>QP</td>
<td>Physiology</td>
<td>362</td>
<td>8.02</td>
<td>848</td>
<td>3.40</td>
<td></td>
</tr>
<tr>
<td>QR</td>
<td>Microbiology</td>
<td>41</td>
<td>0.93</td>
<td>264</td>
<td>1.10</td>
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<table>
<thead>
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<th>Total No. of Titles Available</th>
<th>BBAL</th>
<th>%</th>
<th>DLSU</th>
<th>%</th>
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</thead>
<tbody>
<tr>
<td>S</td>
<td>Agriculture (General)</td>
<td>152</td>
<td>22.10</td>
<td>378</td>
<td>29.30</td>
<td></td>
</tr>
<tr>
<td>SB</td>
<td>Plant culture</td>
<td>338</td>
<td>49.10</td>
<td>475</td>
<td>36.80</td>
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<tr>
<td>SD</td>
<td>Forestry</td>
<td>44</td>
<td>6.40</td>
<td>131</td>
<td>10.15</td>
<td></td>
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<tr>
<td>SF</td>
<td>Animal culture</td>
<td>72</td>
<td>10.50</td>
<td>135</td>
<td>10.50</td>
<td></td>
</tr>
<tr>
<td>SH</td>
<td>Aquaculture, Fisheries, Angling</td>
<td>49</td>
<td>7.10</td>
<td>142</td>
<td>11.00</td>
<td></td>
</tr>
<tr>
<td>SK</td>
<td>Hunting</td>
<td>33</td>
<td>4.80</td>
<td>29</td>
<td>2.25</td>
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<thead>
<tr>
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<th>Subject Area</th>
<th>Total No. of Titles Available</th>
<th>BBAL</th>
<th>%</th>
<th>DLSU</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>TR</td>
<td>Photography</td>
<td>103</td>
<td>54.50</td>
<td>530</td>
<td>39.40</td>
<td></td>
</tr>
<tr>
<td>TT</td>
<td>Handicrafts, Arts and crafts</td>
<td>29</td>
<td>15.30</td>
<td>182</td>
<td>13.60</td>
<td></td>
</tr>
<tr>
<td>TX</td>
<td>Home economics</td>
<td>57</td>
<td>30.20</td>
<td>632</td>
<td>47.00</td>
<td></td>
</tr>
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<table>
<thead>
<tr>
<th>Subject Area</th>
<th>Titles</th>
<th>Volumes</th>
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<tr>
<td>Science</td>
<td>26,642</td>
<td>35,330</td>
</tr>
<tr>
<td>Agriculture</td>
<td>1,290</td>
<td>1,915</td>
</tr>
<tr>
<td>Technology</td>
<td>1,344</td>
<td>1,715</td>
</tr>
</tbody>
</table>

Findings, Conclusions and Recommendations:
1. As of April 2006, the total number of the DLSU Library’s book holdings in the following collections are:
IMS Distributes OHPs at AGH Classrooms

The Instructional Media Services-AGH has distributed 35 overhead projectors (OHPs) at the different classrooms in July. These are exclusively for the use of the classes held at AGH. More OHPs will be purchased and they will be distributed as soon as they are delivered to the IMS at the main library. The table below shows the rooms where they are available and the number of OHPs available on each floor.

<table>
<thead>
<tr>
<th>Floor</th>
<th>Room Numbers</th>
<th>OHP</th>
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<tr>
<td>7th</td>
<td>701</td>
<td>704</td>
</tr>
<tr>
<td>8th</td>
<td>802</td>
<td>804</td>
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<td>9th</td>
<td>901</td>
<td>904</td>
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<td>10th</td>
<td>1001</td>
<td>1003</td>
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<td>11th</td>
<td>1101</td>
<td>1102</td>
</tr>
<tr>
<td>12th</td>
<td>1201</td>
<td>1202</td>
</tr>
<tr>
<td>14th</td>
<td>1402</td>
<td>1403</td>
</tr>
<tr>
<td>16th</td>
<td>1601</td>
<td>1602</td>
</tr>
<tr>
<td>17th</td>
<td>1701</td>
<td>1702</td>
</tr>
<tr>
<td>Total</td>
<td>35</td>
<td></td>
</tr>
</tbody>
</table>

Collections... from page 2

2. Based on BBAL,
   - The Library’s book collection in science is strong in Mathematics (QA) and weak in Human anatomy (QM)
   - The book collection in agriculture, on the other hand, is strong in Plant culture (SB) and weak in Hunting (SK)
   - The Technology collection is strong in Home economics (TX) and weak in Handicrafts, Arts and crafts (TT)

In terms of quantity,
   - The DLSU Library’s book holdings in science are 82% more than those cited in the BBAL. The same is true with the books in agriculture which is 46.67% more and in technology which is 86.23% more.
   - The DLSU Library’s book holdings are strong in the following areas:
     - Mathematics (Science)
     - Plant Culture (Agriculture)
     - Home Economics (Technology)

3. On the contrary, the quality of the Library’s collection based on the percentage of availability for the science (19.2%), agriculture (3.9%) and technology (7.9%) collections all fell short.

4. Budget allotted for the purchase of science books from SY2001/02 to SY 2005/06 is Php3, 610,117.48 and Php1, 864,255.21 for the Circulation Section’s book collection to where the budget for the purchase of agriculture and technology books was taken.

5. Total amount spent for the purchase of science books from SY 2001/02 to SY2005/06 was Php4, 315,099.79 which was Php704, 985.31 or 19.53% more than the total budget allocated.

6. The average acquisition for science books is 222 volumes and 424 volumes for Circulation books (where agriculture & technology are parts of).

7. The average cost of science books for the last five years (2001-2005) is Php3,898.96 and Php2,377.70 for circulation books (parts of which, as mentioned earlier, belong to agriculture and technology).

Conclusions
1. Based on the titles cited in the BBAL, the DLSU Library’s holdings for science, agriculture and technology are more than adequate in terms of quantity but are very deficient in terms of quality.
2. It will take 16 years for the DLSU Library to acquire all science books cited in the BBAL and 8 years for agriculture and technology books.
3. Acquisition of titles prescribed by BBAL not available in the DLSU Library’s collection requires a very high cost.

Recommendations
1. Determine and prioritize which among the titles not in the collection should be acquired based on the Library’s selection criteria. Special attention should be given to human anatomy and zoology in the field of science, since both subjects are included in DLSU’s curricular offerings.
2. Look for other authoritative selection tools in recommending books for acquisition to further enhance the quality of the science, agriculture and technology collections.
3. Consider conducting a follow-up assessment of the collection using a client-centered technique (e.g. usage assessment) to find out the extent of need to strengthen the science, agriculture and technology collections.
Visitors

William Frias, the Collection Development Librarian, Jo Balangue, the Acquisitions Librarian and Cynthia Cordova, the Filipiniana Librarian went to select books at the 10th Philippine Academic Bookfair held last July 10-14. Accompanied by Br. Joe Scheiter, FSC, a Physics professor, they spent one whole day selecting from among the various academic and professional references and textbooks from major publishers in USA and UK. They selected Filipiniana books, general references, and books suited for the students at Andrew Gonzalez Hall Library. Some DLSU faculty members also joined the book selection activity on separate dates. Together they were able to select approximately 480 volumes of books which cost around P 930,000.

Held at the Clamshell 2, General Luna cor Anda Streets in Intramuros, Manila, the book fair was organized by the Association of Booksellers for the Academe and the Professions (ABAP) with the theme “Enhancing the Country’s Competitive Advantage Through Books”.

Donors

The DLSU Library would like to acknowledge with great appreciation the following donors:

- Asian Development Bank
- Bureau of Domestic Trade
- Discipline Office
- Embassy of Iran
- Embassy of Switzerland
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- Mariano, Gerardo
- Oreta, Andres
- Prudente, Maricar
- Quebengco, Carmelita
- Quevada, Nikko
- Scheiter, Joseph FSC
- Sia, Robert
- Sinco, Antonio

Recent Acquisitions

1. Books

AC – Collections of monographs, essays, etc.


BD – Speculative philosophy


BF – Psychology


BL – Religious life

DS – Philippine history


GR – Folk literature

Philippine folk literature. GR 325 P45 2001. 4th floor, Filipiniana; 2nd floor, Andrew Gonzalez Hall Library.

HA – Statistics

Census of population and housing. HA4611.5. 4th floor, Filipiniana.

HB – Economic theory. Demography


Foundations of economics. Robin Bade, Michael Parkin.

HB171.5 B34 2004. 3rd floor, Circulation.


HC – Economic history and conditions


The white man’s burden: why the West’s efforts to aid the rest have done so much ill and so little good. William Easterly. HC59.7. E235 2006. 3rd floor, Circulation.

HD – Economic history and conditions. Industrial management. Production


Business strategy and national culture: US and Asia Pacific microcomputer multinationals in Europe. Denise Tsang.
Ground floor, European Documentation Resource Centre.


Knowledge management : organizational and technological dimensions. Joseph G. Davis, Eswaran Subrahmanian, Art


Quantitative approaches to distribution logistics and supply chain management. Andreas Klose, Gracia Speranza, Luk N. Van Wassenhove, eds. HD38.5.Q37 2002. 3rd floor, Circulation.


The role of SMEs in national economies in East Asia. Edited by Charles Harvie and Boon-Chye Lee. HD2346.E18 R64 2002. 3rd floor, Circulation.


Theories and paradigms of international business activity.


Franchise contracting and organization. Edited by Francine Lafontaine. HF5429.23 .F7 2005. 3rd floor, Circulation.


HG – Finance


HM – Sociology

The economics of the digital society. Edited by Luc Soete, Bas ter Weel. HM851 .E26 2005. 3rd floor, Circulation.

HN – Social history. Social problems. Social reform


HV – Social pathology. Social and public welfare. Criminology


HX – Anarchism


JA – Political science. Collections and general works

States and development: historical antecedents of stagnation and advance. Edited by Matthew Lange and Dietrich Ruesche-
meyer. JA77 .S7 2005. 3rd floor, Circulation.

**JC – Political theory. Theory of the state**


**JF – Political science. Government. Administration**


**JQ – Philippines – politics and government**


**JV – Emigration. Immigration**


**JZ – International relations**


**KPM – Philippine law**


**LB – Theory and practice of education**


**LC – Special aspects of education**


**P – Philology and linguistics (General)**


**PE – English language**


**PL – Philippine literature**


**Q – Science (General)**


**QL – Birds - - Philippines**

Key conservation sites in the Philippines: a Haribon Foundation & Birdlife International directory of important bird areas.
2. Instructional Media Resources

- **Equipment**
  - Mini cassette recorder
  - Portable cassette recorder

- **CDs and DVDs**
  - Ad magic
  - The Age of Innocence
  - Art & science
  - The engineering and the arts
  - The grand tour v. 13
  - How to visit an art museum
  - The JVC/Smithsonian
  - Pocahontas
  - Poetry in space
  - The rainmaker
  - The Renaissance
  - The restoration of the Sistine Chapel

3. Archives Resources

- **Faculty Papers**
  - **Abella, Leonila**
    - COD reduction of simulated phenol wastewater using Fenton’s reagent
    - Effect of process parameters on the degradation of polychlorinated biphenyls in water matrix using UV/H2O2
    - A review on the dechlorination and degradation of chlorinated organic compounds using advanced oxidation processes

  - **Adajar, Mary Ann**
    - Embedment effect on the bearing capacity of spread footing in sand
    - Enhancing research capabilities of Civil Engineering educators through collaborative efforts at De La Salle University-Manila
    - Improved data acquisition using data logger, strain gauge-type transducers in civil engineering laboratories/courses
    - Paper sludge as replacement of fine aggregates in fresh concrete used in low cost housing projects

  - **Arroyo, Marigold**
    - English plus

  - **Atienza, Rumel**
    - A demographic analysis of delighters of b2C website store-fronts : (What surfers mistakenly think are not important features of B2C storefronts)

- **Aviso, Kathleen**
  - A comparative analysis of six life cycle impact assessment methodologies
  - A multi-criteria rough set based methodology for life cycle impact assessment
  - A system dynamics approach on the life cycle analysis of coal-fired power generator
  - Environmental evaluation of power generation options using rough sets
  - Implementation of chain management by life cycle assessment (CMLCA) on Philippine coconut biodiesel

- **Baguisi, Ma. Theresa**
  - Greenlight : overthink or blink

- **Bautista, Cirilo**
  - Breaking signs : a promise of peace and comfort
  - Breaking signs : good fiction in a writing workshop
  - Breaking signs : second address to young writers
  - Breaking signs : speaking of books
  - Breaking signs : what’s happening to the merry month of May?

- **Bautista, Marc**
  - Greenlight : spurring the adoption of global investment performance standards

- **Baylon, Bernadette**
  - Popular statistics

- **Baytan, Ronald**
  - Distance

- **Berino, Dennis**
  - Managing for society : challenges of the new media
  - Managing for society : alternative fuels and upsized engines

- **Borja, Josephine**
  - Biodegradation of polychlorinated biphenyls
  - Biodegradation of polychlorinated biphenyls using acrobic biofilm
  - Biodegradation of polychlorinated biphenyls using biofilm grown with biphenyl as carbon source in fluidized bed reactor
  - Development of biofilm for polychlorinated biphenyl degradation using mixed microbial culture capable of growth on biphenyl
  - Formation of biofilm on different particulate media using modified kitchen waste extract as initial growth substrate for use in PCB degradation
  - Kinetics of polychlorinated biphenyls biodegradation using biofilm grown on biphenyl
  - Polychlorinated biphenyls and their biodegradation
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  – Business options : the psychology of minimum wage earners

• Chua, Johannes
  – Ang lihim sa liwanag

• Concepcion, Rene
  – Greenlight : Pacific Asian consortium meeting

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  – Framework : distinguished La Sallian
  – Framework : economics of strategy
  – Framework : a La Sallian response
  – Framework : managing innovation
  – Framework : military strategy
  – Framework : the practice of management
  – Framework : religion industry

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  – Mini critique : the future of universities
  – Mini critique : poor authors
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  – Mini critique : start winning
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  - Capital view: the rights of conscience

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  - The view from Taft: little things we can do to help

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DLSU University Library
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Cresencia B. Valenzuela (valenzuelac@dlsu.edu.ph)
Editor
Marita G. Valerio (valeriom@dlsu.edu.ph)
Associate Editor
Melton E. Io (jom@dlsu.edu.ph)
Web Editor
Gregorio Guinto (guintog@dlsu.edu.ph)
Photographer
Wilfredo A. Frias (friaswa@dlsu.edu.ph)
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***********************