The Bliss Classification Bulletin

c/o Commonwealth Institute, Kensington High Street, London, W.8

Vol. VI, No. 4, January 1979

FOREWORD

Progress of the new edition

Details of the progress of the new BC are given elsewhere in this issue, in the minutes of the AGM and in the reports on classes H, K and T. To put it very briefly, the great size and complexity of class H (Human biology, health and medical sciences) continued to hold up the programme of publication in 1978 and the finalizing of the schedules is still not complete; but it is now in its final stages and the preparation of the camera-ready copy for Butterworth has begun. Class I (Psychology and Psychiatry) which may be regarded as an important part of the subject was, however, published in October 1978 and we may stake the claim for it here that it is undoubtedly the most comprehensive and up-to-date classification of the subject now available to librarians.

With the publication of Class H this year we are assuming that the programme of publication will begin to speed up significantly; a summary of the present publication situation is given on page 2.

Maintenance of BC2

A major function of this Bulletin is to provide a maintenance service for the published scheme and a list of additions and amendments to classes already published will be found on pages 19/23.

To help existing and intending users of BC2 to use the scheme to the best advantage, two more short courses in the form of practical workshops were held at the PNL School of Librarianship, in October and December 1978. Both were well attended.

New users of BC2

The following institutions and persons have joined the BCA and in most cases have adopted the new BC; we welcome them to the ranks of BC2 users. Enquiries regarding BC2 should be sent to Dr. D. J. Campbell, Hon. Secretary, The Bliss Classification Association, The Library, c/o Commonwealth Institute, Kensington High Street, London, W.8.

Balfour Library, Oxford
Mr. R. A. Bonner (personal member)
University of Cambridge Department of Education Library
Centre for Information and Advice on Educational Disadvantage
Charlotte Mason College Library
Chester College Library, Ambleside, Cumbria.
Ms. M. Dacy (personal member, Jerusalem)
Dr. Barnardo's Library
Document Intelligence Unit, Tokyo
Fitzwilliam College Library, Cambridge
Haddan Library, Cambridge
Indiana University Library
Mr. J. P. Langridge (personal member)
Priory Upper School, Lewes
University of Texas at Austin Library
Toshokan Tanki Daigaku Library, Tokyo
Wellcome Foundation Library
West London Institute of Higher Education Library

Present position in publishing BC2 (January 1979)

N.B. Published classes are available from booksellers; or, in case of difficulty, from the publishers - Butterworth & Co. (Publishers) Ltd., Borough Green, Sevenoaks, Kent, TN15 8PF ('Phone 0732 884567).

Published classes

Introduction and Auxiliary Schedules. 1977. (ISBN 0 408 70821 2)
Class J : Education. 1977. (ISBN 0 408 70829 8)
Class P : Religion, The Occult, Morals and ethics. 1977 (ISBN 0.408 70832 8)

Class Q : Social welfare. 1977. (ISBN 0.408 70833 6)

Penultimate drafts issued, publication due in 1979

Class H Human biology, Health and medical sciences.
Class K Social sciences (general), Sociology, Social anthropology and Ethnography.
Class T Economics, Management.

Penultimate drafts issued, awaiting finalization

Class A/AF Philosophy
Class AY Statistics and Probability
Class C Chemistry and Chemical technology
Class D/DF Astronomy
Class S Law
Class V Arts, Music, Recreative arts
Class W/Y Language and Literature
Class Z Library and information sciences (will be a numberal class in BC2)

Penultimate drafts in advanced state of preparation

Class AM Mathematics
Class E Biology (general), Microbiology
Class F Botany
Class G Zoology, Applied biology (alternative to UA/VC)
Personnel and resources

The BNB Research Fund grant to help work on BC2 ended in December 1978 and we wish to express here our gratitude to the Fund for its most valuable support. The Fund is not a large one and regretted its inability to extend the grant. We are now exploring other possible sources of funding, but for the time being there are no funds to support Vanda Broughton in her work as joint editor.

In February 1978, the Polytechnic of North London granted a short-term research assistantship, lasting some eight months, to assist the testing of Class H of BC2. Robin Bonner, an ex-student on the Post-graduate course at the PNL School of Librarianship was appointed and made a most valuable contribution to the progress of the scheme, including the organizing of the production of an A/Z index to the draft of Class H by the Computer Unit of PNL. A brief account of his work appears on page 13/14.

Auditor wanted! If any member could help us by acting as Hon. Auditor (not a very onerous job) we should be very glad to hear from them (see p.6, section 5).

J. Mills
Hon. Editor
School of Librarianship
The Polytechnic of North London
207/225 Essex Road
London N1 3PW
Bliss Classification Association

Minutes of the Annual General Meeting

held at the Library Association, Ridgmount St., Store St., London, W.C.1. at 2.15 p.m. on Friday 12th January, 1979.

PRESENT: Mr. J. Mills (Polytechnic of North London) Chairman and Hon. Editor, Mr. H. M. Barrett (Department of Health and Social Security), Hon. Treasurer, Miss N. M. Bartlett (Homerton College, Cambridge), Mr. K. W. Best (personal member, Supreme Court Library), Mr. K. G. Cheyney (Haberdashers' Aske's School), Mrs. L. Clark (Royal Botanic Garden, Edinburgh), Mr. A. E. Cooban (Birkbeck College, University of London), Mr. K. Morton (King's Fund Centre), Ms. L. Gates (Haddon Library, Cambridge), Mrs. E. M. Russell (Kings College, Cambridge), Mrs. J. B. Stearns (St. Martin's College, Lancaster), Mrs. J. M. E. White (King's Fund Centre), Mrs. J. Wilkinson (Kings College, Cambridge).

APOLOGIES were received from: Miss A. Bunch (Scottish Health Services Centre), Dr. D. J. Campbell (Personal member) Hon. Secretary, Mr. G. W. Geoghegan (University of Reading Education Library), Mr. R. Hughes (Commonwealth Institute) Hon. Publicity Officer, Mr. H. A. Thomlinson (Royal Belfast Academical Institution), Ms. R. Wake (Scottish Centre for Research in Higher Education). Mrs. M. Walker (Tavistock Joint Library).

Mr. Mills apologized for the postponement of the meeting from the original date in December; owing to an oversight at the PNL, notice of the A.G.M. had not been sent to members in time to meet the formal requirement of four weeks notice.

1. Minutes of the last A.G.M. held on November 25th 1977.

These had been circulated in the Bulletin and were confirmed and signed.


Mr. Mills reported that the PNL has organized two more short courses on the use of EC2, in October and December; the December date had been fixed after requests from academic libraries for a date outside the university term. Mrs. Wilkinson enquired about courses concerned with practical problems of reclassification. Mrs. Stearns said that she had attempted to organize a course for Bliss users in the north of England, but that the response had not been sufficient to make a course worthwhile. Mr. Mills drew attention to a forthcoming book by Mr. A. Maltby and Ms. L. Gill and also urged that the Bulletin should be used as a forum for discussing practical problems.

3. Chairman's report.

Mr. Mills reported on another year of difficulties. One cause of delay was that the original intention of achieving precision comparable to that of the British National Bibliography's - i.e. at application of Dewey - i.e. the level of monograph book literature - had been modified so that the scheme was now
approaching the specificity of U.D.C. This was a direct response to the needs of the special libraries beginning to use BC2. The extra detail required inevitably slowed up production and and an example of this was class H; when the penultimate draft was issued in February, it ran to four hundred pages. The penultimate draft of the Management section of class T had been finished in late summer, and the Economics in November. The complete penultimate draft of class T had been typed and sent to the Polytechnic's reprography department the previous week, and the class would be distributed in the next few weeks.

Class I (Psychology and Psychiatry) had been sent to Butterworths in June and published in October. Mrs. Russell reported that Kings College Library had not yet received its copy; the Haddon Library, Fitzwilliam College and King's Fund Centre were in the same position. Mr. Mills undertook to take the matter up with Butterworths.

Work had begun on finalizing the penultimate draft of class K; a need for some radical amendments had been expected and this had proved to be the case.

Invaluable assistance with the new edition had been provided by Mr. Eric Coates (who holds an Associate Lectureship at the School of Librarianship); a student at Loughborough School of Librarianship had made valuable contributions to the Astronomy class, and a colleague at the Polytechnic of North London, on Meteorology. The B.N.B. Research Fund grant, which had provided finance for the salary of Mrs. Broughton, had expired at the end of 1978. The Fund (which is not a large one) regretted that it was unable to award a further grant, although it fully appreciated the value of the work being done. The BCA wished to record its gratitude to the Fund for its invaluable support. An application for support in a study of classification in the Social Sciences was now with the Social Science Research Council. If this were successful, Mrs. Broughton could be retained, but her work would be limited to social science subjects.

The present year would see the publication of H, K and T, in that order. The tactics of publication had been discussed in Committee, and the feeling there had been in favour of pressing ahead with the publication of classes which were nearly ready, to maintain a flow of publication. Classes in an advanced state of preparation were E, F and G (Biology, Botany and Zoology). Agriculture and Physics (tA/UD and B) were also well advanced. History would be greatly simplified in presentation because of the decision to use the Auxiliary Schedule 2 for the Place facet (in BC1 the order in classes I/O is quite different) But a measure of enumeration would still be desirable to ensure consistency of classification, e.g. of particular historical events; the ancillaries of history (e.g. archaeology) should be ready later in the year. Mrs. Russell asked about the Mathematics class. Mr. Mills replied that this had posed particular problems of analysis and feared that it would be one of the last classes to appear. Mrs. Clark expressed interest in the appearance of classes F and G which would be the classes most used at the Royal Botanic Garden, Edinburgh.
The maintenance of the classification had been discussed in Committee. The method at present foreseen was that an editor in chief should have overall responsibility, while particular major subject areas should be divided between a number of editors (perhaps three or four).

Mrs. Stearns commented on the poor quality paper used for the new edition. It was absorbent, and the copy of class P in her library had become badly smudged. Mrs. Wilkinson stated that class I appeared to have the same type of paper. Mr. Mills said that Butterworths had already been made aware of users' dissatisfaction with the quality of the paper. They had said that the early volumes were a special case, because of their comparatively small number of pages, and that in later, larger volumes an improvement would be noticeable.


Mr. Barrett distributed copies of the audited accounts for the year ended 31st July 1978 and went through them (the accounts are reproduced on page 8). There were 123 members of the Association at the date of the meeting. Mr. Cheyney proposed and Mr. Best seconded that the accounts be adopted, and this was carried.

5. Election of an Hon. Auditor.

The retirement of Mr. J. F. Hooton (University of Hull Institute of Education) from the office of Hon. Auditor was reported to the meeting. The Association heard this with regret, but wished to thank Mr. Hooton for his valuable services. No nominations for a successor had been received and the election of a new Hon. Auditor was referred to the Committee. The expense of having the accounts audited professionally would be considerable, and should be avoided. Mr. Cheyney pointed out that the accounts, and so the auditor's task, would be simplified if a single form of investment were adopted for the Association's assets.

6. Publicity and reviews.

Mr. Mills said that the publicity for the new edition was not entirely satisfactory: for example, no volume had yet been reviewed in the Library Association Record. He was at present preparing two publicity handouts, one a short (four-page) publicity leaflet, the other a fuller description of the new edition and the Association. Mrs. Wilkinson commented on the need for such leaflets; a short account of the use of the new edition had been written for newsletters circulated to Cambridge and East Anglian libraries. Mr. Cheyney suggested the draft of the leaflets should be included in the Bulletin for comment.

Mrs. Russell asked about the role of library schools. Mr. Mills said that he thought that there was considerable interest in the scheme in all the Schools. He and Mrs. Broughton had visited a number of schools to talk about BC2 and to his personal knowledge it was used as teaching material at a number of Schools - e.g. at Ealing and Aberystwyth.

7. Numbers co-opted to the Committee.

Mr. Mills proposed and Mr. Cheyney seconded that the Committee should be authorized to co-opt three people instead of two, and this was carried.
8. **Election of three members of the Committee.**

The three retiring members were Dr. D. J. Campbell, Mr. C. B. Beale (Royal Holloway College, University of London) and Mr. G. W. Geoghegan. Dr. Campbell and Mr. Geoghegan had been on the Committee since 1973; if re-elected, they would be eligible for only one more year, and had chosen to retire from elected service. Dr. Campbell was willing to continue as Hon. Secretary, and could be co-opted. Mr. Beale had been elected in 1975, and so was eligible for three more years.

One nomination had been received, from Mrs. Russell and Ms. Oates, proposing Mrs. J. Wilkinson. Mr. Beale was proposed by Mr. Mills, and seconded by Mr. Cheyney. Mr. Cheyney, who had been a co-opted member of the Committee, was proposed by Mr. Best, and seconded by Mr. Barrett. **These three were elected.**

9. **Any other business.**

Mrs. Wilkinson asked whether the Bulletin might appear more often than once a year. Mr. Mills replied that this was desirable when the Bulletin assumed its primary function of notifying amendments to the new edition, but pressure of work in preparing the new edition for publication made it impossible to issue more than one Bulletin a year at present.
BLISS CLASSIFICATION ASSOCIATION

Receipts and Payments Account for the year ended 31st July 1978

<table>
<thead>
<tr>
<th>1977</th>
<th>RECEIPTS</th>
<th>1977</th>
<th>PAYMENTS</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>Balance forward 1st August 1977</td>
<td>366.84</td>
<td>433.24 Expenses of 2nd edition</td>
</tr>
<tr>
<td>1248.81</td>
<td>Subscriptions</td>
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<td>121.74</td>
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<td></td>
<td>Personal</td>
<td>15.38</td>
<td>26.24 Committee expenses</td>
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<td></td>
<td>Schools</td>
<td>8.00</td>
<td>46.19 Stationery and postage</td>
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<tr>
<td>419.38</td>
<td>Other institutions</td>
<td>450.60</td>
<td>Payment for purchase of 2nd</td>
</tr>
<tr>
<td></td>
<td>Sales of Bulletin</td>
<td>52.46</td>
<td>edition on behalf of Center for</td>
</tr>
<tr>
<td>24.07</td>
<td>Butterworths Royalty on 2nd</td>
<td>355.90</td>
<td>Mental Health, Athens per contra</td>
</tr>
<tr>
<td></td>
<td>edition</td>
<td></td>
<td>22.20</td>
</tr>
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<td>88.30</td>
<td>Interest on Bank Deposit a/c</td>
<td>22.30</td>
<td>Purchase of investments</td>
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<td></td>
<td>Distributions from M &amp; G Securities</td>
<td></td>
<td>Charifund 201 units 299.87</td>
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<td>Charifund</td>
<td>42.28</td>
<td>Charibond 252 shares 300.13</td>
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<td>Charibond</td>
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<td>600.00</td>
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<td></td>
<td>108.24</td>
<td></td>
<td>Bulletins and circulars</td>
</tr>
<tr>
<td>9.24</td>
<td>Postage refunds on 2nd edition</td>
<td>1.25</td>
<td>24.06 Printing and distribution</td>
</tr>
<tr>
<td></td>
<td>Payment for purchase of 2nd</td>
<td></td>
<td>23.57</td>
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<tr>
<td></td>
<td>edition on behalf of Center for</td>
<td></td>
<td>Sundry expenses</td>
</tr>
<tr>
<td></td>
<td>Mental Health, Athens</td>
<td>28.20</td>
<td>Balance in hand 31st July 1978</td>
</tr>
<tr>
<td>30.00</td>
<td>Donations</td>
<td></td>
<td>Bank a/c Current 73.30</td>
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<td>Bank a/c Deposit 475.77</td>
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<td></td>
<td></td>
<td>£1409.17</td>
<td>549.07</td>
</tr>
<tr>
<td>1819.80</td>
<td></td>
<td>1819.80</td>
<td>£1409.17</td>
</tr>
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</table>

HM Barnett, Hon. Treasurer

The Association's Assets at 31st July 1978 were as follows:

<table>
<thead>
<tr>
<th>Investments (at cost)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Charifund</td>
<td>699.53</td>
</tr>
<tr>
<td>Charibond</td>
<td>800.13</td>
</tr>
<tr>
<td>Cash at Bank</td>
<td>549.07</td>
</tr>
<tr>
<td>Total</td>
<td>1746.50</td>
</tr>
</tbody>
</table>

AUDITOR'S REPORT

I have examined the books, bank statements and other relevant papers of the Bliss Classification Association and find the above statement of accounts to be correct.

Yours faithfully,

Hon. Auditor

51-07-78 (Date)

Institute of Education Library (Address)

University of Hull
Bliss isn't to be in King's

by

Elizabeth Russell and Julia Wilkinson

* This account of their experience in using BC2 in King's College Library, Cambridge, has been sent by Mrs. Elizabeth Russell, Assistant Librarian and Mrs. Julia Wilkinson Classification Assistant. First hand, frank reporting of this kind is extremely welcome to all concerned in the development of BC2 and we would urge others to follow this excellent example.

Mrs. Russell: When I was appointed to the post of Assistant Librarian of King's College, Cambridge in May 1976, a major part of my brief was to bring the open access sections of the Library's stock out of the 'dark ages' of fixed shelf location into a proper modern subject arrangement. This it was hoped would enable all College members to make full use of the large and excellent bookstock and maybe wean the Junior Members from the restrictions of departmental reading lists, with their Author approach, to some appreciation of the many valuable 'ears of wheat' currently hidden among the 'chaff' of the chaotic non-arrangement. During that first summer, accompanied by an able and encouraging Library Committee, I visited a selection of other Cambridge college libraries with a survey-questionnaire, which included items on the classification schemes used, as a prior necessity to making decisions on the best scheme and other modern librarianship methods to be adopted at King's. I was not converted to any of the 'home-made' schemes we saw in use, but by a happy chance one of the libraries visited was that of Fitzwilliam College, which was pioneering the second edition of Bliss. This immediately aroused my hopeful interest. I had spent the major part of my career to date as a cataloguer and classifier in the Andersonian Library of the University of Strathclyde, Glasgow, working with the Universal Decimal Classification, which had made me an enthusiastic supporter of faceted classification schemes, though I heartily disliked the confusion caused both to the readers and to many of the library staff by the variety of typographical signs used by U.D.C. to determine shelf order. Therefore I was in a very receptive state to accept the superiorities of second edition Bliss over any of the other published general classification schemes, and the decision was soon made to adopt the scheme.

It soon became obvious that if the classification of King's Library was not to drag on 'even unto the day of' my retirement, a full-time Classification Assistant was a prime requisite. Finding this person took some time, so meanwhile I tackled two small trial areas on my own, Chemistry from a draft schedule and Education from one of the first published classes, K. As far as I could tell from my small book collections in these two subjects, the scheme worked well and provided all the modern terminology which I needed. The relevant Directors of Studies consulted raised no objections to either of the schedules, a promising start. In fact my only problem in the initial stages was the practical one of choice of spine label, and after one or two false starts, it was happily resolved with the help of the University Library Printing Department. I also had a session on the draft K schedule with two other Directors of Studies and two other library users, Fitzwilliam College and the Haddon Library of Archaeology and Anthropology, and we sent a letter of comments and criticism to Mr. Mills. I applied provisional numbers to the shelf slips for the books in Sociology and Medicine from
the draft schedules, but decided to delay the actual changes until the published schedules appeared. I was sorry to have to postpone Medicine, a particularly chaotic area of our stock and one heavily used by the students, but I was not happy with the placing of Physical Anthropology at HEV - HGS and thought that some of the basic notation might be altered in the final version. For the same reason I delayed classifying the subsection Biochemistry, which I was very eager to classify as at present it is all on one shelfmark, F. 11, and rapidly running out of shelf space, and the Director of Studies was happy with the layout and terminology of the draft schedule.

In July 1978 we finally achieved our Classification Assistant, Mrs. Wilkinson, who did her Librarianship degree at The Polytechnic of North London and who took to Bliss as a duck to water, even though she was flung into the deepest part of the pond, as she started with Class P : Religion and a very large section of books.

Mrs. Wilkinson: I was appointed as Classification Assistant at King's in July 1978 for a three year term, straight from a degree course in Librarianship at the Polytechnic of North London. Although I had been taught the principles of faceted classification (in particular as applied to the Colon Classification) the second edition of Bliss was new to me.

I had to begin either with one of the published schedules (J, P or Q) or a reliable penultimate draft. As J (Education) had been classified by Mrs. Russell, and the material to be classified by Q was small, I began with P (Religion). We feel that Class P is the least successful of the schedules so far published; in its overall arrangement, its omission of relevant subject terms (e.g. Holy Trinity), and in the standard of indexing. There were also spelling mistakes and incorrect cross references so that the classifier has to be cautious. Over 1200 books have been classified in this class. The good points seemed to us to be the two sequences for Biblical texts and criticism, and the overall organization of the History of the church (Pre-Reformation). As it was the first class I tackled, I realise there are mistakes in my subject analyses, and assignment of notation, and in some areas (e.g. in church history) the notation is prohibitively long.

The next set of books to be classified was Philosophy. For this the draft schedule AA/AK was used, and was adapted to our requirements. It was decided to classify the works of twentieth century philosophers as instructed in the scheme, but historical philosophers are at ADQ in century divisions, and then alphabetical order. Schedule 6 from the draft of the Literature schedule was used to arrange their works. The notation for the historical philosophy works well (i.e. maintains a logical order) but to the students seems too long.

For the purpose of labelling we have not always kept to groups of 3 letters. For example, in Philosophy the notation has been divided as follows

<table>
<thead>
<tr>
<th>ADQ</th>
<th>modern period</th>
</tr>
</thead>
<tbody>
<tr>
<td>L</td>
<td>1800 - 1900</td>
</tr>
<tr>
<td>NI,A</td>
<td>Nietzsche, criticism</td>
</tr>
</tbody>
</table>
Whenever a common auxiliary is used it is separated from the preceding notation

<table>
<thead>
<tr>
<th>PR</th>
<th>Roman Catholicism</th>
</tr>
</thead>
<tbody>
<tr>
<td>6E</td>
<td>Britain</td>
</tr>
<tr>
<td>7P</td>
<td>1830 - 1900</td>
</tr>
</tbody>
</table>

We feel this helps the user to learn to recognize common auxiliaries such as 6E for Britain, and helps the eye when searching the shelves to follow the lines of notation.

I have also classified Statistics by XA and found this very satisfactory - all the required terms are enumerated, and the notation is short.

Class I was published in October 1978, but we still haven't received our copy from the publishers. We have however borrowed a copy. This schedule seems very thorough, although there are mistakes in the index. What is particularly helpful is the explanation within the scheme itself, which helps one with decisions about the location of books, and about the choice of alternatives within the scheme.

An unavoidable consequence of publication in parts, is the frustration at not being able to refer to other parts of the scheme. This is where having draft schedules comes in useful.

Before a section of books is classified at King's it is weeded by the Director of Studies for that subject. Books going to store are not classified. The schedule is also explained to the Director of Studies. We have found that often their notion of classification is quite wrong. We have to contend with the usual reactionaries, while others greet the logical organization of the books with enthusiasm. The final say in weeding rests with the library staff as we discovered that the subject specialists sometimes wished to discard books not read for their section of the Tripos!

At present the library has a handwritten book-form author catalogue, with very limited cataloguing. This is being maintained. But a classified catalogue in card form is being created, with more detailed cataloguing, and accompanying this a subject index to the classified catalogue, constructed on chain indexing principles. All the cards are being typed by myself, and I am fortunate to have Mrs. Russell's cataloguing experience to draw on.

The advantages of classification are already becoming clear. The most obvious one is a logical and predictable subject arrangement of the books, which hitherto had none. Now, students who cannot locate a book given in the reading list, because it is on loan, can find books on the same subject. Before, this was virtually impossible without browsing round the library. There is a detailed subject approach to the stock via the subject index. The weeding of the stock is removing all the dead material and showing up gaps in the stock, which the Directors of Studies can remedy with their book purchases.
In Cambridge there are, to our knowledge, four libraries using, or about to use, the new Bliss. We keep in touch with each other to discuss any problems which arise. We have also contacted users of the old Bliss, to ask their opinions, and to allow them to see the new Bliss in use. We are doing all we can to publicise the scheme locally, as we feel that for libraries considering re-classification it is the best scheme. By cooperation we can all help each other.

We are extremely grateful to Jack Mills for his dedication to this scheme, and for helping us with our queries. We hope that what we are doing here at King's will in return help him in some way.

Notes on current revision

Class H Anthropology, human biology and health sciences

The size and complexity of this class continues to prove a serious disrupter of the programme of revision, although the process of finalising it is now well advanced. The penultimate draft (finally distributed in early 1978) was some 400 pages long - about four times the size of the largest class issued until then. A fair amount of comment has been received and a valuable detailed check of much of its vocabulary has been made by Robin Bonner, a research assistant at the PHL. An account of the latter work written for the School of Librarianship's internal bulletin, Research in progress, is reprinted below.

The greatest change in the final version will be the provision of a detailed schedule for medical technology. Based closely on a draft prepared for EC2 by E. J. Coates, this schedule reflects the complexities of the relations in the subject. For example, the various operations making up a central facet are directed at a variety of targets; some act on the human patient only, some on the patient and on equipment as well, some on patient, equipment and materials. Some act on materials alone (e.g. Electron microscopy). A form of energy (mechanical, electrical, radiation, etc.) may act as the drive to a piece of equipment, or as an agent in investigation or treatment, or it may itself be the recipient of an action (e.g. monitoring) of which in another context it may act as the agent.

The final schedule, some parts of which (e.g. Radiography) are enumerated under Clinical medicine (HN) is as follows:
Health sciences
Experimental and practical
*Research and general laboratory work, etc. are collocated.

Materials
Equipment
(By form of energizing)
Mechanical... electrical...
(General supportive operations)

Data recording
Detection and measurement
Visualization and imaging
* This is enumerated in detail under Clinical medicine where it mainly applies.

(Physical phenomena and properties acted on)
Mechanical energy
Radiation energy
* An alternative is given here for collecting all Radiology together.

(Materials acted on)
Chemical analysis
Materials processing
(Types of materials)
Non-biological
Biological
(Human patients) see HN Clinical medicine

**Bliss Classification revision: testing subject classes (March-September 1978)**
* Reprinted from Research in progress (PLW) No. 25 December 1978*

The subject classes tested were Class H (Human biology and Health sciences and Class K (Sociology and Anthropology). Priority was given to testing Class H, but some preliminary testing of Class K was made. The tests were particularly directed at examining the comprehensiveness of the vocabulary the consistency, viability and clarity of the citation order and various instructions for synthesis, as well as notational length.

The two main methods of testing were: 1) comparing the alphabetic index of Class H to other authority lists, in particular MeSH, and 2) using Class H (and K) to classify document surrogates, in particular, from BNB.

In the case of Class H, the tests showed some weaknesses in vocabulary comprehensiveness, despite the presence of about 20,000 terms. Cases of enumeration of the same concept in more than one place (e.g. Backache), or in the wrong place (e.g. Migraine under Pain instead of being under Head - Pain). Problems arose from the separation of patho-physiological processes from their related (normal) physiological processes or properties. For strong theoretical reasons Blood pressure, for example, is under Circulatory system - Physiology and Abnormalities in Blood Pressure is under Circulatory system - Pathology instead of being under Circulatory system - Physiology - Blood pressure - Pathology. This division becomes a major problem in relation to diagnostic equipment defined by function, in that the same equipment (e.g. for measuring blood pressure) can be used to measure normal conditions and pathological conditions. This highlights the conceptual overlap between symptoms, diseases by manifestation, physiology
and properties of the body and its Parts, Organs and Systems (POS), as well as sequelae of diseases and associated diseases, which are at present in separate arrays. Thus concepts relating to Blood pressure are at present scattered in at least four different places and are not always distinguishable except possibly in the context of the compound subject being classified. Another unfortunate case of scatter due to the recognition of Preventive medicine and public health is a special sub-discipline. At present there are two parallel sequences of POS and diseases (in Curative medicine and in Preventive medicine, except for aspects of Hygiene). This means that in most cases prevention of a disease in a POS is separated from general works on the POS and its diseases and their diagnosis and treatment. So whilst dental hygiene goes with curative medicine, etc., of the Dental system, prevention of tooth decay goes with preventive medicine, even though many preventive treatments can only be performed by dentists. Problems also arose in relation to the treatment of psychosomatic diseases.

As a result of the testing, the draft schedules are being radically changed. In particular, the Auxillary Schedules H1, H2 and H3 (which are crucial in determining citation order) are being amended, other instructions are also being improved; Preventive medicine is being reorganised; medical materials (including drugs) and equipment are being radically expanded; diseases are being expanded; and the notation within some categories completely re-allocated.

Some more testing will be made with the prime purpose of comparing the new Class H with Dewey and Precis as used in RMB as a tool for the organisation and retrieval of documents and their surrogates. An article on this is planned. Some further amendments are likely to result from the editing of the alphabetical index. The final version is likely to be published in spring 1979 and this researcher believes it will be better than any other existing classification in the field.

As for Class K, it would appear that Sociology, Social psychology, Social Anthropology, Folklore, Ethnography and Ethnology all tend to study the same phenomena, and that it would be more useful to collect documents on a specific social phenomena (e.g. the Family, housing, violence) and qualify them by the sub-discipline used, than having parallel sequences of phenomena under each of the sub-disciplines. In the light of this, Class K is being completely revised, with a class of phenomena at the end of the schedule, each qualified by the special viewpoints represented by the sub-disciplines.

I will continue research useful, inter alia, to the Bliss classification, as part of a research degree (for which I received an award from the DES) consisting of a study of the classification of phenomenon based literature (October 1978-October 1982).

An article on the testing of Class H can be found in the coming issue of Library and information research news.

Robin Bonner
Class K Social sciences (general), sociology, social anthropology, etc.

A penultimate draft of this class was issued some three years ago. A basic feature of the draft was its treatment of Sociology and Social anthropology as two different but closely related methods of studying social phenomena, to which they were therefore subordinated; so a sociological study of Stratification would go under Stratification as would a social anthropological study. This plan met with the approval of sociologists and social anthropologists although the latter tended to think the sociology was given greater weight (in vocabulary, etc.).

In the final revision, the same issue (of phenomena, or objects of knowledge, versus 'disciplines' or ways of viewing phenomena) has come up again. In the penultimate draft, although the repetition of a category of social phenomena (processes, groups, etc.) under Sociology and Social anthropology was rejected, it was accepted in the case of Folklore and Customs. These two contain a quasi-disciplinary viewpoint and a phenomenon class; the viewpoint (folklore) is notably different from viewpoints like Sociology and Social anthropology, which seek scientific objectivity in their description and analysis, and has close affinities to symbolic activities like art and mythology; the phenomena are the social actions describable as customs - but almost any sphere of human action may become hallowed by some and rank as a custom.

When considering literary warrant and the educational consensus, as Bliss put it, we find that some librarians with collections in this subject area prefer the social phenomenon to be the first cited element (after a given culture) in all cases; this would treat Folklore as another viewpoint (albeit a very special one) and so all the literature on a given phenomenon (disposal of the dead, say) would be collocated - its sociology, its social anthropology, its folklore, its customs, and so on.

The provisional draft (shortly to be finalized) now looks like this:

SOCIAL SCIENCES

Society and culture
*Total processes characterizing social life (= culture) and the societal structures which accommodate them.

Theory, methods of research
Case studies, sample regions
*Alternative to treating society or ethnic group as primary facet.
(Society and culture)
(Special viewpoints, modes of enquiry, investigative disciplines)
  Biological evidence
  Demography
  Psychological evidence
  Sociology
  Social anthropology
  Folklore

Environment, ecology: influencing factors

Social phenomena
  Social processes
  Change, development, equilibrium
  Social control: codes
  (Customs) See ↓
  Social interaction, social relationships
  Communication
  Socialisation
  Differentiation
  (Stratification) see Stratification groups ↓

Social structure
  Collectivities: groups, communities
  Stratification groups: classes...
  Age and sex groups
  Family and marriage

Social actions
  *Cultural aspects only.

Discipline activities, professions
  *Reflecting specialized activities dependent to large extent on study and training and including significant theoretical element.
  *Divide as main classification: Mathematics... Physics
  Social sciences...

Basic human social activities
  *Highly concrete concepts with minimal elements of systematic study and training implied.

Customs (general)
  Life cycle, birth, death
  Food and drink
  Shelter and clothing
  Adornment, etiquette
  Recreation
  Folkways

Ethnography and ethnomology
  Particular societies: by race
  Particular societies: by place
Class T Economics and Enterprise Management

The penultimate draft for Class T was completed in November 1978. It is some 200 p. long - i.e. considerably larger than drafts of previously issued classes except for the exceptional Class H.

Class T consists of two separate subjects - Economics and Management. The latter is a fundamental activity, serving all other social activities and the general class appears at the beginning of BC2 (under Organization theory). But the literature on Management is concerned predominantly with the management of economic enterprises (in the wider sense) - hence its collocation with Economics.

Economics (T/TP): the structure of this class is governed by the standard citation order. The end product of economic activities is an economic system; this may be characterized most significantly by organizational features (feudal, capitalist, etc) or by political-cum-geographic features (national, regional, local economy, etc.). Within a complete system are found subsystems (sectors, firms, households, etc.), the component resources (forms of production, factors of production, etc.), and the economic processes which operate on these resources (supply, demand, production, exchange, distribution, etc.) and these processes are assisted by various agents (markets, money and credit, etc.).

A major problem in citation order is one common to all the special social sciences - i.e. the position of the individual nation state. In a number of disciplines (Law, Political science, etc.) there is little doubt that the national system should be the primary facet. But in Economics the position is less clear. The penultimate draft provides for the qualification of any economic problem (Trade unions, Land utilization, Banking, etc.) by the nation's state, using the Common Auxiliary of Place (at T8). However, it is likely that the final version will provide an option whereby the nation can be cited very much earlier if a given library wishes.

An outline of the draft is as follows:
Management: this proved much more straightforward and the standard citation order gives a clear and logical structure. The purpose of Management in any organization is to maximize the efficiency of the system of production and distribution of the organization’s product, whether this be a concrete artefact or a service of some kind. The system is served by a number of subsystems (e.g. financial and administrative services, personnel) and the system and its subsystems form the object of Management — what is managed. The tools of management (primarily its management techniques) are subordinated to the thing acted on in the usual way.

An outline of the draft is as follows:
 Management
  (Types of enterprise)
  * Alternative (1) (not recommended) for libraries
    wishing to keep all Management together. The
    preferred arrangement is to subordinate
    Management to the organization, industry, etc.
    managed.

  (Agents)
  TQK Management personnel...
  TR Management techniques
  TS Management processes
  TSE Policy...planning...control...

  (Objects of management)
  TSO Administration, office management
  TSY Financial management
  TT Accounting...
    Capital raising...
  TU Personnel management

  TV Production and distribution management
  TVE Resources management
  TVM Production management
  TW Marketing
  TWJ Sales promotion...advertising...
    (Markets)
  TX By product (general)
    By customer (general)

  TY (Types of enterprise)
  * Alternative (2)(not recommended) - keeping all
    Management together but citing enterprise
    before management activities.

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ADDITIONS AND AMENDMENTS TO BC2

* BC2 began publication in March 1977. These additions and amendments
constitute a maintenance service for all published parts. Relevant
parts will be consolidated when a new edition of a given part is
published.
* All users of BC2 are invited to submit to the Hon. Editor
suggestions for incorporation in this vital feature of the Bulletin.
The continued effectiveness of the system is assisted greatly if new
concepts and terms are incorporated promptly into it.

Introduction and Common Auxiliary Schedules

p.190 DD Ancient and medieval: add Pre-Columbian (for America)
p.192 ACQ Ancient and medieval: add Pre-Columbian (for America)
p.193 DD Ancient and medieval: add Pre-Columbian (for America)

Class J Education

p.1 JAK IHL Insert new entry: Home environment
p.17 A/Z index Insert new entry: Home environment JAK IHL
p.3 J&W B Health services staff...: add education social
  worker, visiting teacher (Am.)
p.15 A/Z index Insert new entry: Education social worker JCW B
p.21 A/Z index Insert new entry: Visiting teacher (Am.) JCW B
p.4 JE Psychology of education: headings and classmarks should be amended where necessary to conform with the new Class I Psychology
p.5 JFO B Insert new entry: Qualifications (formal)
p.19 A/Z index Insert new entry: Qualifications (formal) JFO B
p.6 JHC Y Insert new entry: Teacher relations with others
Add to JHC Y Numbers and letters 2/9, A/Z from whole classification, e.g. JHC Y1
Teacher-psychologist relations
p.20 A/Z index Insert new entry: Teacher relations with others JHC Y
p.6 JHD Q Insert new entry: Duties, responsibilities
p.15 A/Z index Insert new entry: Duties; teaching profession JHD Q
p.19 A/Z index Insert new entry: Responsibilities; teaching profession JHD Q
p.9 JKU KP Insert new entry: Spiritual development
p.20 A/Z index Insert new entry: Spiritual development; curriculum JKU KP
p.9 JKU KK Insert new entry: Human relations
p.17 A/Z index Insert new entry: Human relations; curriculum JKU KK
p.10 JN ECN Insert new entry: Transition from primary to secondary education
p.21 A/Z index Insert new entry: Transition from primary to secondary education JN ECN
p.8 JNV Training...: Delete classmarks and replace by JNV B
p.21 A/Z index Training; correct classmark to JNV B
p.10 JLD X Insert new entry: Street schools
p.20 A/Z index Insert new entry: Street schools JLD X
p.12 JTJ Insert new entry: Education of persons in education *Use JTJ for teachers JTJ Y
p.14 A/Z index Insert new entry: Other types of persons in education together with note; Add to JTJ Y letters A/J following J in JA/JJ e.g. Education administrators JTJ YC
p.15 A/Z index Alienated persons: correct classmark to JVR W
Autistic persons: correct classmark to JVT X
Backward persons: correct classmark to JVO
Blind persons: correct classmark to JVV
Communication-disordered persons: correct classmark to JVT
Comparative education: correct classmark to J6P
Criminals as educands: correct classmark to JVR X
Deaf and dumb persons: correct classmark to JVV Y
Dcaf persons: correct classmark to JVV
Delinquents: correct classmark to JVR X
Deviants: correct classmark to JVR
Difficult children: correct classmark to JVV W
Disabled persons: correct classmarks to JVS X
Disturbed persons: correct classmark to JVV
Dumb persons: correct classmark to JVV X
Tyslexics: correct classmark to JVV X
Examinations...: add (set) and correct classmark to JFL

Homebound persons: correct classmark to JVJ X
Hospitalized persons: correct classmark to JVJ Y
Ill persons: correct classmark to JVS W
Impediments of speech: correct classmark to JX W
Injured persons: correct classmark to JVS X
Isolated persons: correct classmark to JVJ X
Late developers: correct classmark to JVP
Lonely persons as educands: correct classmark to JVJ W
Maladjusted persons: correct classmark to JVQ
Mentally handicapped persons: correct classmark to JVK
Multiply handicapped persons: correct classmark to JX Y
Partially hearing persons: correct classmark to JVW X
Partially sighted persons: correct classmark to JVW W
Perceptually handicapped: correct classmark to JVT Y
Physically handicapped: correct classmark to JVS

Prisoners as educands: correct classmark to JVR Y
Problem children: correct classmark to JVQ W
Reading handicapped: correct classmark to JX X
Retarded persons JVO

Sick persons: correct classmark to JVS W
Sight handicapped: correct classmark to JVV
Slow learners: correct classmark to JVN
Speech handicapped: correct classmark to JVX
Under-achievers: correct classmark to JVP

Class Q Social Welfare

Licensing...: add registration

Insert new entry: Registration: social welfare legislation QAM X

Relations with client...: add client-worker contract

Client-worker contract QDD

Attributes, methods of relating

Skills in relating

Skills in client relations

Insert new entry: Initial interviews

Insert new entry: Initial interviews: QDK P

Insert new entry: Intervention, casework intervention

Insert new entry: Intervention: social casework

Brief casework: add Short term casework
A/Z index  Insert new entry: Short term casework QDL T

QRN S  Insert new entry: At play, Recreation, with
note *Alternative (not recommended) to
locating at QFY

QEQ CS  Citizens Advice Bureau... change classmark
to QEQ CX and bracket heading (to show
it is synthetic)

A/Z index  Citizens Advice Bureau: correct classmark to
QEQ CX

QES G  Behaviour therapy: change heading to
Psychotherapy (general)

A/Z index  Behaviour therapy QES G: delete entry

QES H  Therapeutic community: delete entry

A/Z index  Therapeutic community QES: delete entry

QES I  Correct Add instruction to read:
Add to QES I letters A/Z following I in
IA/IZ - e.g. Family therapy QES ISX;
Therapeutic community QES ISW W

QPK YY  Insert new entry: Low income family benefits

A/Z index  Insert new entry: Low income family benefits
QPK YY

QPL X  Insert new entry: (to align with War pensions
above): Emergencies and exceptional
situations e.g. 3 day week

A/Z index  Insert new entry: Emergencies and exceptional
situations: social security QPL X

QPS LS  Insert new entry: School milk

A/Z index  Insert new entry: School milk QPS LS

QFY  Recreation... add note: *Alternative (not
recommended) is to locate at QRN S

QGX W  Add to heading: Risk victims

A/Z index  Insert new entry: Risk victims QGX W

QHE M  Reception centres... change classmark to
QHE LP and bracket heading (to show it
is synthetic)

A/Z index  Reception centres: housing: correct classmark
to QHE LP

QKK P  Add to heading: Unwanted pregnancy

A/Z index  Insert new entry: Unwanted pregnancy: QKK P

QKR G  Siblings... Delete 'brothers, sisters' from
heading

A/Z index  Insert new entry: Brothers

QKR HB  Brothers: delete 'see Siblings' and replace
with QKR HB

A/Z index  Insert new entry: Sisters

QKR HD  Sisters: delete 'see Siblings' and replace
with QKR HD

QKR H  Aunts and uncles: change classmark to
QKR HF

A/Z index  Aunts: correct classmark to QKR HF

A/Z index  Uncles: correct classmark to QKR HF

QGV VGK  Insert new entry: (and bracket) Low income
families

A/Z index  Low income families: QGV VGK

QLN EQ  Creches: change classmark to QLN ENM

A/Z index  Creches: correct classmark to QLN ENM

QLN ES  Nurseries... change classmark to QLN ENO
Nurseries: correct classmark to QLN ENO

Insert new entry: Day nurseries QLN ENO

Company day nurseries: change classmark to QLN ENO CJS and bracket heading (to show it is synthetic)

Company day nurseries: correct classmark to QLN ENO CJS

Medical social workers: change classmark to QMB and bracket heading (to show it is synthetic)

Medical social workers correct classmark to QMB.

Add to heading: mental health

Insert new entry: Mental health QMM

Insert new entry (in brackets) Mental health services

Correct classmark of example in Add... instruction: schizophrenics QMN VN

Designated employment: bracket heading

Causes of crime, influencing factors: bracket heading

Social administration: bracket heading