

Handlists for additions to the Professor Brian Randell Collection

Contents

Page 2 - Basic index to 22 archive boxes (handlist 1)

Page 11 - Basic index to files of documents (handlist 2)

## ADDITIONS TO THE RANDELL ARCHIVE (IN 22 ARCHIVE BOXES)

### ARCHIVE BOXES: MISC A – YZ (20 boxes)

This provides Basic Index to the papers relating to the History of Computing. Most were collected in the period 1970-1982 when I was preparing the three editions of my book *The Origins of Digital Computers* – many will be listed in the Bibliography in the book, the final greatly enlarged version of which appeared in the 3rd edition.

The index term given on each item is typically either the principal topic or the surname of the author, perhaps followed by the topic in parentheses. Numbers in square brackets indicate cases where there are several items under a given index entry.

A – Abacus, Adam [2], Adler, Aiken [7]. Aiken (re Hopper), Akl, Alt, Amdahl, American Machinist, American Totalisator Co., Anderson [2], Anderson (Turing), Andrews [2], Anon [6], Archibald [2], Atanasoff [7], Auerbach, Aul, Aviation Week

B1 – Babbage 1822, Babbage 1832, Babbage 1834 (Edinburgh Review papers), Babbage 1837 MSS (folder), Babbage 1837, Babbage Lease (1842), Babbage 1856 (on Scheutz), Babbage 1870, Babbage (Anon – Nachrichten), Babbage (Analog Science Fiction), Babbage (Riviste), Babbage (R.S. Arts & Manufacturers) [2], Babbage (Tee), Babbage (Swade), Babage (cuttings and items from Royal Holloway Project – Swade), Babbage HP [3]

B2 – Bakelite, Barnard, Barnes, Bauer [2], Barlow, Baxandall [2], Beckman, Beika, Bedini, Bell [2], Bennett, Berlin, Berry, Bertillon, Bibliography [3], Billings, B.I.O.S.. BINAC, Bird, Blachman, Blair [2], Bletchley Park [2], Bloch

B3 – Blodgett, Booth [3], Bowden [2], Boys, Brainerd [3], Brennan, Brewster [2], Brioux (Catalogue), Bird, Bromley [3], Bromley [Antikthera], Bromley (Babbage) [2], Brown, A C (ULTRA), Brown, W.S. (Bell Labs), Briguglio (Menabrea), Bryce (IBM Patents) [2]

B4 – Burks [8], Burroughs, Bush [9].

C1 – Caley, Calvocoressi [3], Clark, Campaigne [2], Campbell, D. [2], Campbell, R.V., Campos [2], Cannon, Carabatos (Colossus), Carlson, Carpenter [2], Cerruzi [2], Chapuis, Chase, Cheysson, Clark, K., Clark, R. (Eureka) [2], Chroust, Coleman

C2 – Cohen (Computer World), Colossus [6], Computing, Comrie [8], Conway, Coombs [3], Costello, Couffignal [12], Crawford, Crosse [3], CSC ReportCzauderna

D – D’Auria, Da Vinci, Davies (Lorenz) [2], Davies (Siemens TS2) [4], Davis, Deavours (Enigma) [2], De Beauclair [3], “Delta” (Babbage), De Neumann [2], Devaux, Dickson, Diderot, D’Ocagne [3], Dodd, Donaldson (Stevenson), Drake (Galileo), Dreyer [2], Droz, Dwanasty [2], Dubbey (Babbage)

E – Earison (Babbage), Eckert (J.P.) [8], Eckert (W.J.) [2], Edwards (Train interlocking), Eicken (Zuse), Elliott, Ency. Brittanica (Calculating Machines), ENIAC [5], Enigma [20], Erskie, Estrin. Eureka [2], Evans, Evers (Hellschreiber), Eymard (Jacquard) [2], Eyraud,

F – Felt [5], Ferguson, Ferranti, Feynmann, Fisher (Hollerith), Fitzgerald, P. (Knox, Enigma), Fitzgerald, W.G. (Babbage), Flad (Schickard) [2], Flowers [5], Fowler, Franklin (IBM), Franksen (Babbage) [2], Frazer (NPL), Freiherr (NIH), Fricke (Siemens), Friden

G – Gandy (Turing), Gardner, M., Gardner, W.D. (Atanasoff), Garlinski (Enigma) Gleiser (Turing) [3], Goldbach (Zuse), Goldstine [4], Good [5], Gores (Enigma), Gruenberger, Guardian (Enigma), Gutor (Babbage)

H – Haga (Babbage) [2], Hall (Babbage), Hamann, Hammer (Schickhard), Hardie (Enigma), Hartree [4], Hawkins (Napier) [2], Hay (Post Office), Heath Colossus), Edward (Colossus), Higgins [7], Hill (Babbage), Hinsley (review by Erskine), Histoire des Techniques, Hoffman [2], Holland, Hollerith [8], Hollingdale (Babbage), Hopper (lecture poster, Howard (Enigma), Hoyau (Thomas de Colmar), Hughes [2], Hunt (Enigma), Hurd (IBM CPC), Huskey

I – IBM [12], ICL, IERE/IRE, Illustrated London News (Manchester Machine), Illustrated London News (Babbage), Imperial College (Calculating Machines), IPM (Institute for Practical Mathematics)

J – Jacob [5], Jacobs (Enigma), Jacquard, Japan, Japan (ETL Automatic Relay Computer), Jensen Dissertation: Hilfegerate der Kryptographie[2], Jipp (Patent: Secret Telegraph System 1931), Jones (Enigma), Judex Juris (Babbage), Juley

K – Kahn [9], Kean (Babbage), Kempf (ENIAC), Kern (Atanasoff), Kisterman (Hollerith), Klaas (Northrop), Klipstein, Klir (Weiner), Korbonski (Enigma), Kozaczuk (Enigma), Kreindl (Jacquard), Krutz (slide rules)

L – Last (calculating machines), Layton (arithmometer) [2], Laver, Lavington [3], Lehmann [2] Leibniz, Lifschutz (scale-of-two counter), Lilley, Lind (adding and multiplying mechanisms) [2], Lisiki (Enigma [3]), Locke (Leibniz, etc.) [4], Lorenz [4], Loringhof (Schickhard) [4], Los Alamos (annotated conf. programme, attendees photo., list of attendees), Losano [5], Lovelace, [2] Lubkin (EDVAC), Ludgate [3], Luebbert (Colossus) [5], Lynch (Colossus) [3]

M – MacFarlane (Babbage), Machover (Grapics), Mackie Totalisator), Malik [2], Marquand, Marshall (Babbage), Martin, E (Calculating machines), Martin, T.C. (Hollerith) [2], Matz, Mauchly [10], May, McCarthy (Business Machines) [2], McKay, McLaughlin (Lovelace),

McPherson (IBM), Mechanics Magazine (Babbage), Menabrea [2], Merriam (Hollerith), Merrifield (Babbage), Merzbach (Scheutz) [2], Metropolis, Meyer zur Capellen (IPM), Michie [4], Millington [4], Millionaire, Mollenhoff (Atanasoff), Morrson (Babbage), Moseley, Milner- Barry, Monroe [3], Montmorillon, Mullett (Babbage), Myers

N – Nagler (Tauschek) [2], Napier [2], National Archives (Enigma, Ultra), Nature (Ludgate) [2], NBS (SEAC), NCR, Nordisk Familje Bok (Scheutz) [2], NPL

O – d'Ocagne [4], Olympia, ONR

P – Parker (Lorenz), Parnas, Peltu (EDSAC, Colossus) [2], Penniman (Maillardet), Pérès [2], Petroski (lide rule), Phelps (IBM), Phillips (Binary Calculation) [4], Pierce (accounting Machines), Poncelet (Jacquard), Potts (Graphics), Powers-Samas [5], Price, Pye (Enigma)

Q – Quetelet (Babbage)

R – Radford (Rapid Arithmetical Machine) [2], Rajchman (RCA) [6], Ramdas, Randell (Colossus) [7], Rapier (Railway Signalling), RCA, Reid-Green (IBM 704), Reinecke, Reinhold (Bush), Remington Rand (Bibliography), Reuleaux (Thomas) [3], Rex (Hollerith) [2], Richards (Atanasoff), Roberts (Colossus), Ridenour (ENIAC), Rohrbach, Rohrberg, Rogers JL, Rogers JM (Sumador Chino), Rotula, Rowning (Roots of Equations), Royal Mail (Colossus stamp)

S1 – S., A. (Babbage), Santesmasses, Scharf (Zuse), Schelberg (Computer Patents), Scheutz, Schreyer A (Jacquard), Schreyer H [5], Science Museum (Babbage cenenary exhibition) [2], Science News Letter (Stibitz), Scientific American (ENIAC), Scientific Memoirs (Babbage), Seale (Enigma), Scientific Computing Service, Sebert (Bollée), Serrell, Shannon, Shapiro (Babbage), Sharpless (ENIAC), Sheldon (IBM CPC), Siemens (T52) [5], Sigfoyl (Converter M-325), Simmons (Cryptograh), Smith (Babbage), Snedecor (Hollerith), Snyder (Cryptography)

S2 – Sotheby's (Honeyman Collection), Sperry Rand, Spiller (Enigma), SSEC [2], Stanhope (Enigma & Coventry allegation), Starr (The Computer Museum), Steiger Calculator Patent), Stevenson C W (IBM), Stevenson M G (Bell Labs) [2], Stewart (Napier), Stibitz [10], Strachey (by Campbell-Kelly), Stucker, Sunday Times (Enigma), Systems and Procedures J. (Hollerith)

T – Takahashi (ETL), Tauschek [2], Tee [4], Think Magazine (Bryce), Thomas, Thompson H, Thompson T R (LEO), Thorne (Enigma), Timoshenko (FIAT Report), Todd (von Neumann) [5], Toops (Bibliography), Torres y Quevedo [12], Totalisator [2], Trask (Babbage) [2], Travis (Bibliography), Tricomi (Babbage), Tropp (Ken May), Truesdell (Hollerith), Tucker M J (Photoelectric correlation meter), Tucker R (Matrix Multiplier), Tumbleson (ENIAC, etc), Turck Calculators) [2], Turing (Checking, etc.), Turkel (Cryptography), Tutte (Perfect Squares), TYPEX

V – van Sinderen (Bibliography), Vaucanson, Vigneron (Torres y Quevedo) [2], von Drach, von Freytag Loringhoff (Shickhard) [4], von Mackensen (Leibniz), [2] von Neumann [4]

W – Walther A (calculating machines), Walther W (Heron of Alexandria), Ward (Wynn-Williams), Weik (ENIAC), Weiner, Welchman, Weygandt (Determinant machine), White (Electronic tubes), Wildes (Whirlwind), Wilkes [7], Wilkinson (ACE) [3], Willers, Williams F

C [3], Williams J M (Automata) [3], Williams M [8], Williams SB (Bell Labs) [2], Wittenberg (Babbage), Woodall Friden square roots), Womersley (ACE), Woodger [4], Work (Zuse), Worlton, Worsley (EDSAC), Wynn-Williams [2]

Y – Yasaki

Z – Zemanek [13], Zuse

**ARCHIVE BOX: Tapes, CDs**

**Tapes from Christopher Evan’s Pioneer Interviewing Project BBC & Science Museum)**

D.W. Davies

J.P Eckert

T. Kilburn

John W. Mauchly

J. Wilkinson

F.C. Williams

J. Pinkerton

Zuse

**Los Alamos Tapes:**

Los Alamos Disc. Of Colossus

Dr. A.W.M Coombs (copied from master tape of Mike Williams)

Colossus (Evening session with Coombs)

**Colossus Investigation Tapes:**

T H Flowers – 31/10/75 – Tapes 1, 2

M H A Newman – 1/11/75 –

W. W. Chandler & A. W. M. oombs – 10/11/75 – Tapes 1, 2, 3

S. Broadhurst – 11/11/75 – Tapes 1, 2

D. Michie – 6/12/75 – Tapes 1, 2

T. H. Flowers – 17/12/75 – Tape 1

I.J. Good 29/01/76 – Tapes 1, 2 , 3

**Misc. Tapes:**



IPOEE Lecture “Colossus” Tape I - Dr.T.H. Flowers

IPOEE Lecture “Colossus” Tape II - Dr.T.H. Flowers

“Who Invented the First Computer – A. Burks

Colossus TX. 5 July 1995

NUMAC Lecture March 1992 – Prof. Ewan Page

### **CDs**

CD – Photos from NATO68, NATO-69, Robert M. McClure

CD - Jean-Claude Laprie

### **ARCHIVE BOX: Miscellaneous Correspondence**

Correspondence re my appointment to the Second Chair (1967-69)

Correspondence with E.W. Dijkstra (1967), P.J. Courtois (1967-69), A.P. Yershov (1967), C.T. Davies (2002), and P. Naur (2009-10)

Correspondence with E.W. Dijkstra and about Multi-Level Modelling (1967-68)

Papers related to IFIP WG 2.1 and the Algol 68 Minority Report (1968-69)



# ADDITIONS TO THE RANDELL ARCHIVE CATALOGUE

**B. Randell**

**22 August 2017**

This provides a basic index to the files of documents (mainly correspondence, with some attachments) relating to the History of Computing, in particular (i) the preparation of the book “The Origins of Digital Computers: Selected Papers”, and “The Colossus”, a paper given at the 1976 Los Alamos conference (BR/3/20/3/1-7) and (ii) the preparation of the 3<sup>rd</sup> edition of “Origins” and several papers for the Annals of the History of Computing (BR/3/20/4/1-4). Most of the original attachments are filed elsewhere (and though in the Randell Archive have yet to be included in this catalogue).

Each index entry gives the (personal or institutional) correspondent's name, followed by a set of index topics in parentheses. The index topics are mainly just people's surnames (with no attempt being made to distinguish between people who have the same surname, I'm afraid), or other nouns e.g. computer, project or company names. In a few cases a correspondent's affiliation is also given, in square brackets, when he or she is evidently just representing this affiliation, rather than writing personally.

In the Archive the actual documents in each section are grouped together according to the initial letter of the name of the correspondent, and within these groups are in reverse date order. In this index, the set of documents from or to a given correspondent are analyzed together in order to identify suitable index terms for the set as a whole. Terms given within quotes are book or article titles, “Origins”, and “Bibliography”, being abbreviations for “The Origins of Digital Computers: Selected Papers”, and for the various versions of the associated bibliography. References to “Questionnaire” refer to the various related questionnaires that were prepared and circulated during the preparation of my Los Alamos paper on Colossus, and the responses received.

**Note:** Attachments are identified as such by the use of italics and a descriptor, e.g., “*Circuit diagram*” – figure, “*Colossus*” – questionnaire, “*The First Business Computer*” – article, “*History of Digital Computers*” – proofs, “*Origins*” – Historia Mathematica review, etc.

## **BR/3/20/3/1**

Adams, G.H. [Science Museum Lib.] (Ludgate)

Agnew, Mrs J. [RCHM] (“Archives of British Men of Science”, Boys, Kelvin)

Alcalde, L.R. (Torres y Quevedo)

Alexander, C.H.O. (Colossus)  
 Alt, F.L. (Los Alamos, "Origins")  
 Alton, Mrs J.B. (Contemporary Scientific Affairs Centre, Harteey, Strachey)  
 American Totalisator Co., Inc. (Totalisator)  
 Andison, A.D. (Videoing of T.H. Flowers in "The Secret War")  
 Andrews, E.G. (Hamming)  
 Ashcroft, M. ("*Newmanry members with addresses, compiled in 1945*" – list).  
 Ashford, J.R. (Curta machine, Newell)  
 Atanasoff, J.V. (ABC, Babbage, "*Circuit diagram*" – figure, EDVAC, Hooper, "Origins")  
 Auerbach, I.L. (AFIPS Computer History Project, Atanasoff, Auerbach Publishers Ltd., "Bibliography", BINAC, Eckert-Mauchly, Electronic Control Co., NBS, Richards)  
 Babbage, C.E. (Babbage)  
 Babbage, D.W. (Colossus, Dumey, Enigma, Welchman)  
 Bachman, C.W. (BRL, Clippinger, Eachus, Turing, Welchman)  
 Balliol College (Boys)  
 Banâtre, J.P. (Couffignal)  
 Barcs, S.E. (F.R. Bull)  
 Barker, W. (Enigma)  
 Bartlett, E.L. (Wiener)  
 Barton, J. (IBM)  
 Barton, R.S. (Brewster, Burroughs)  
 Basetlikova (Klir, Wiener)  
 Basu, R.N. ("Arithmometre Electromechanique", "Origins", Tauschek, Zuse)  
 Batey, J.K. (Turing)  
 Bauer, F.L. (Böhm, Heron of Alexandria, "Origins", Zuse)  
 Beak, K.L. (Colossus)  
 Bellringer, B. (Punched card industry)  
 Benjamin, R. (Colossus, "*The Colossus*" – proposed changes, Flowers, Foster, Hooper, Horwood, Los Alamos, Newman)  
 Bennett, J.M. (Ada Lovelace)  
 Berlanny, S.S. (Stern calculator)  
 Berry, D. (Sendov)  
 Bigelow, J. (Wiener)  
 Birkbeck College (Booth, Kitz)  
 Birr Castle (Lord Rosse re Babbage)  
 Birtwistle, D.T. (Colossus)  
 Black, J.B. (Feynmann)  
 Blackwells (Torres y Quevedo)  
 Boggs, W.E. (Colossus)  
 Booth, A.D. (Birkbeck)  
 Bowden, V. (Aiken, Babbage, Hartree, Robinson, Turing, Wilkes)  
 Bratt, J.B. (Fairthorne, Meccano Differential Analyzer, NPL)  
 Brioux, A. (Malassis collection)  
 Broadhurst, F.W. (Colossus, "*Colossus*" – questionnaire)

Broderick (von Neumann)  
 Bullard, E. (Comrie, Michie, Official Secrets Act, Turing)  
 Burks, A.W. (“A Computer Perspective”, Atanasoff, “Bibliography”, Bigelow, Colossus, EDVAC, ENIAC, “*From ENIAC to the Stored Computer*” – comments, Larson, “*Notes on Slides*” – list, “Origins”, Sharpless, Shaw, “*Who Invented the First General Purpose Computer*” – text, Wiener)  
 Bush, V. (Wiener)  
 Cairns, W.R. [Edinburgh Univ. Press] (Turing)  
 Call, C.G. [Allegretti, Newitt, Witcoff & McAndrews] (Bush, ENIAC, Klir, Rajchman, RCA, Weiner)  
 Caltech Alumni Association (Feynmann)  
 Campaigne, H. (Bush, Colossus, Heath Robibson, Lehmer, Levinson, Vergine, Wenger, Williams)  
 Campbell-Kelly, M. (ICL, Lutze)  
 Campbell, D. (Shulman)  
 Carter, J. [ATV] (Colossus)  
 Cavender, J.T. (NCR)  
 Cerruzi, P. (ASCC, “Bibliography”, ENIAC, FIAT report, IPM Darmstadt machine, Project PX, Schreyer, Stibitz, “*Thesis*” – comments, Zuse)  
 Chaldecott, J.A. [Science Museum] (Babbage)  
 Champernowne, D.G. (Gear cutting, Turing)  
 Chandler, W.W. (Colossus, Coombs, Eckert, EDVAC, Mauchly, Morrell, Turing, Womersley)  
 Charters, M. [Crowell, Collier and McMillan] (Babbage, Halacy)  
 Chesson, F.W. (Colossus, IBM, NSA, Purple machine)  
 Cheyne, G. (Costa, Torres y Quevedo)  
 Christy, P.R. (Colossus)  
 Chroust, G. (Bröselmaschine, Kreindl, Nagler, Schäffler, Tauschek, Torres y Quevedo, Zemanek, Wimmers)  
 Church, A. (Metropolis, Turing)  
 Churchhouse, R.F. (Colossus, Turing)  
 Clark, R.W. (“*Colossus*” – extract of book draft, Enigma, Geheimschreiber, Purple machine)  
 Clarke, S.L.H. (Coales, Elliott 152)  
 Clippinger, R.F. (EDVAC, ENIAC, Stored Program Concept)  
 Coales, J.F. (Correlation calculator, Pout)  
 Cohen, A.A. (Colossus, Engstrom, ERA 1101, Glaser, Huskey, Steinhardt, Turing)  
 Cohen, I.B. (“A Computer Perspective”, Babbage, Campaigne, Collier, Eames, Machine 13, Malassis-Chauvin, Prudential Assurance Co.)  
 Collar, A.R. (Davies, Faithorne, Frazer & Bratt, NPL)  
 Collier, B. (Babbage)  
 Computing Reviews (Schreyer)  
 Conn, C.C. [National Archives and Record Service]  
 Contemporary Scientific Archives Centre (Reports)  
 Contina AG (Curta machine, Herzstark)

Cook, C.R. (Babbage, Ballot, Barlot, Barlow, Bouchon, Encyclopaedia Metropolitana, Gillotte, Gilroy, Jacquard, Laboulaye, Vaucanson, Wilkes, Woodcroft)

Coombs, A.W.M. (Benjamin, Broadhurst, Campaigne, Chandler, Colossus, Flowers, Heath Robinson, “*Recipients of Colossus Report*” – list, Los Alamos, Luebbert, Metropolis, MOSAIC, “*MOSAIC: The Ministry of Supply Automatic Computer*” – extract, Travis, US trip report)

Courtillot (Couffignal)

Crabbie, B. (A.M. Turing Trust)

Crawford, P. (Bush, Turing)

Cullinane, E.J. [IBM Archives] (“Bibliography”, Brennan, Bryce, IBM)

Cunliffe, W.H. [National Archives and Record Service] (Enigma, M-325, Parker)

### **BR/3/20/3/2**

Datamation (Atanasoff, “Origins”)

Daumas, M. [CNAM] (Catalogue)

Davies, D.W. (ACE, Bratt and Frazer, Collar, Colossus, Enigma, Evans, Fairthorne, Geheimschreiber, Sara Turing, Womersley, Woodger, Zuse)

Deavours, C.A. (Enigma, Geheimschreiber)

Delone, H.F. [Dechert, Price and Rhoads] (ENIAC trial)

Dennis, J.B. (Ludgate)

Desch, J.R. (ACE, Aiken, Cavender, Eckert-Mauchly, ENIAC, IBM, NCR, “*NCR-Dayton patents*” – listing, Turing, UNIVAC 1)

Deutschen Patentamts (Zuse)

Deutsches Museum (Zuse)

Dirks, G.H. (German computers)

Dolphin Book Co (Torres y Quevedo)

Doran, R.W. (Goldstine, Huskey, Turing, Womersley, von Neumann, Wilkinson)

Doucet, J.L. (Courtillon)

Douglas, A.S. [BCS] (Bennett, Smithsonian Computer History Project, Turing)

Drachmann, A.G. (al-Jazzari, Babbage, de Caus, Pegged cylinders)

Dreyer, H.J. (“Origins”)

Dubbey, J.M. (Babbage)

Duggan, M.A. [Computing Reviews] (Scheyer)

Dumey, A.I. (ABEL, Aiken, “Bibliography”, Bush, Colossus, IBM SSEC, Machine 13, Tompkins, Turing, von Neumann, Wenger, Williams)

Durniak, A. [Electronics] (Colossus)

Eason, M.D. (Bletchley Park)

Eastman Kodak Co. (Eastman-Kodak computer)

Eced, M.A. [RENFE] (Torres y Quevedo)

Edgerley, P.G. (Colossus, “*The Geheimschreiber*” – detailed typewritten note from late 1945, Newmanry, Testery)

Elek [Paul Elek Limited, Miss A. Douglas] (Babbage, Losano)

Elliott, W.S. (Campbell-Kelly, Coales, Elliott 152)

Engels, R. (IBM)

Enros, P. (Babbage, van Sinderen)  
 Enticknap, N. [Computer Management] (LEO, “*The First Business Computer*” – article)  
 Ershov, A. (Odhner, Meyer zur Capellen)  
 Erskine, G.A. (Atanasoff, Beesley, “Bibliography”, Brock, Collier, Crawford, Curtiss, ENIAC patent trial, Los Alamos, “*Review of Government Requirements and Activities in the Field of Automatic Computing* (Curtiss 1946)” – extract, Turing, von Neumann)  
 Evans, C. (Los Alamos, “Pioneers of Computing”)  
 Everett, R.R. (Whirlwind)  
 Facit (Facit calculators)  
 Fairthorne, R.A. (Babbage, Bowden, Comrie, Landau, Mallock, NCR Class 3000 Accounting Machine, RAE)  
 Faulkner, T.C. (Crabbe)  
 Fein, L. (Colossus, ENIAC, Japanese computing)  
 Fells, Ian (Winkworth)  
 Feynmann, R.P. (Frankel)  
 Fricke, L. (“*Interview with Herr Leopold Fricke, 1977*” – report, Siemens T52)  
 Firnberg, D. [NCC] (Colossus, Merriman)  
 Flanagan D. [Scientific American] (Babbage, “*Ludgate's Analytical Machine of 1909*” – photocopy of TR, “*Origins*” contents listing – photocopy)  
 Flessati, D. (Campaigne, Colossus, Enigma, Franksen, Kozaczuk, Turing)  
 Flowers, T.H. (Beevers, Bush, Caldwell, Colossus, “*Colossus*” – questionnaire responses, Flessati, Geheimschreiber, Good, Kahn, “*Lengthy letter from Flowers to Kahn*” – copy, Lynch, Morrell, Photo-electric reader, Wynn-Williams)  
 Forbes, E. (Eagles, Maistrov)  
 Forrest, A.R. (Colossus)  
 Foster, P.J. [GCHQ] (Colossus, Horwood, “*The Colossi – Britain's secret wartime computers*” – New Scientist article draft)  
 Frankel, S. (Colossus, ENIAC, Goldstine, Turing, von Neumann)  
 Franksen, O.I. (Babbage, Flessati)

### **BR/3/20/3/3**

Gale, A.J. (Phillips, Womersley)  
 Galler, B.A. (“Bibliography”, Los Alamos, Metropolis)  
 Gandy, R.O. (Ludgate, Turing, von Neumann)  
 Ganzhorn, K. (Schickard)  
 Gardner, W.D. (“Origins”), Turing  
 Gerhart, S. (Turing)  
 Ghouti, P. (Campos, Couffignal)  
 Gingerich, O. (“Bibliography”, Collier)  
 Glaser, E.L. (Turing)  
 GMD (Dreyer, Kron, Lickfold, Merzbach, Office of Military Government, Scharf, Stucken, Zuse)

Goetzeler, H. (Geheimschreiber, Siemens)

Goldstine, H.H. (Bush, Chandler, Crawford, Flowers, Hartree, Mauchly, Michie, “*The Use of High-Speed Vacuum Devices for Computing (1942)*” – copy, Turing, Womersley letter to Goldstine (1945) – copy)

Good, I.J. (Colossus, Flowers, Huskey, Kilburn, Los Alamos, Machine-Building, Michie, Newman, “*Questionnaire*” – lists, Shannon, von Neumann, Williams, Wylie)

Goodwin, E.T. (Michel, Phillips, Turing, Womersley)

Gowing, M. (Contemp. Scientific Archives Centre)

Grant & Cutler Ltd (Torres y Quevedo)

Gries, D. (“Origins”)

Griffiths, M. (“Origins”, Translation)

Grosch, H.R.J. [Computerworld] (Atanasoff, Mollenhoff)

Gruska, J (Weiner)

Güntsch, F.R. [Bundesministerium für Forschung und Technologie] (Colossus, Zuse)

Gvozdjak, L. (Weiner)

Hackman, W.D. [Ashmolean Museum] (Babbage, Buxton, “Origins”)

Halladay, H. (Atanasoff, Auerbach, Carpenter and Doran, ENIAC patent trial, Hartree, Knuth, MIT, NCR, Wildes)

Halsbury, Lord] (D11, Elliott, Frankel, Goldstine, Hollerith, Kilburn, Michie, Newman, “Origins”, Powers-Samas, Turing, von Neumann, Wilkes, Williams, Wynn-Williams)

Ham, J.M. (Wildes)

Hamming, R.W. (Holbrook, Slepian, Stibitz)

Hardie, B. (Colossus, Kahn)

Harper & Row (Cave Brown)

Harrison, K.C. [Marylebone Library] (Babbage)

Hartley, D.F. (AFIPS History Project, BCS)

Hartnagel, H. (Zuse)

Haskell, H. [Imperial College] (Invitation)

Heimatsmuseum (Adam, Bröselmaschine, Kreindl)

Hennery, P. [The Times] (Colossus)

Hersom, S.E. (Clarke, Coales, Elliott Bros., Elliott 402/405/800 series)

Higgins, T.J. (Colossus)

Higman, B. (Curta machine)

Hinsley, F.H. (Colossus, Kahn, Kozaczuk)

Hipwell, J.C. [Computer Weekly] (Colossus)

Hodges, A. (Cave Brown, Colossus, Flowers, Heath Robinson, Jacobs, Lardner, Macready, Michie, Newman, von Neumann)

Hoelzgen, H.J. [IBM] (D11 Accounting machine)

Hoffman, W. (Bryce, Dreyer, IPM, “Origins”, Zuse)

Holbrook, B.D. (Hamming)

Holden, H. P. [Harvard University Library] (Buxton)

Hooper, L.J. [Cabinet Office] (Benjamin, Colossus, Foster, “*Notes on Cabinet Office meeting 2 July 1975*” – typescript, Winterbotham)



Hopper, G.M. (Aiken, “Origins”, “*The Education of a Computer (1952)*” – original)  
 Horizont (Enigma)  
 Horning, J. (Atanasoff, Knuth, “Origins”)  
 Horwood, D. [Cabinet Office] (“*Colossus*” – detailed comments on draft)  
 Howard, M. (Colossus)  
 Howlett, J. (AFIPS History Project, BCS)  
 Hudson, R.E. [Hampshire College] (Goldstine, Zuse)  
 Hugo, I. (Couffignal)  
 Huskey, H.D. (“Bibliography”)  
 Huttenhain, E. (Jensen, Kahn)  
 Hyman, A. (Babbage, Kington, Lardner, Lovelace, Macready, inderen)

### **BR/3/20/3/4**

IEE Library (Lubkin)  
 IMA Bulletin (“*History of Digital Computers*” – proofs)  
 Imperial College (Boys, Ludgate)  
 Ingerman, P.Z. (Scheyer)  
 Instone, S. (“A Computer Perspective”, Eames, “Origins”, Goldstine, “Pioneers of Computing”)  
 Iowa State Univ. (Kern)  
 Ito, T. (Japanese computer history)  
 Jackdaw Publications (Babbage)  
 Jensen, W. (Colossus, Huttenhain, “*Hilfsgeräte der Kryptographie*” – extract, Kahn)  
 Johnson, B. (Babbage, “The Secret War”)  
 Johnston, R. (Drath, Ferranti)  
 Jones, H.S.P. (“Origins”, Schrey, Seegmüller, Zuse)  
 Jones, J.H. (Boys, Ludgate)  
 Jones, R.V. (Colossus, Enigma)  
 Kagan, C. (Colossus, Glaser)  
 Kagan, J.E. [Moore School] (Brainerd, ENIAC, Magnetic calculating machine)  
 Kahn, D. (“A Computer Perspective”, Batey, Bertrand, Birch, Bonatz, Calvocaressi, “*Campaigne interview*” – notes, Cardwell, Chesson, Cohen, Colossus, Desch, Dumey, Eachus, Eames, Eckert, Enigma, Enigma acquisition, Flessati, Flowers, Geheimschreiber, “*Goldschmidt catalogue*” – extract, Good, Gowing, Hardie, Hartree, “*Hollerith machines*” – notes, Hooper, Jensen, Keen, Kruh, Lewin, Lisicki, Luebbert, Lynch, Madam X, Mauchly, Michie, Mumma, Newman, Rosenberg, Rohrbach, Schott, “*Shannon interview*” – notes, Siemens, Snyder, Stibitz, Stoll, Timms, “*Tranow interview*” – notes, Tropp, Turing, Turkel, “*Ultra Secret*” – NYT review, von Neumann, “*von Baumbach interview*” – notes, Welchman, Whitman, “*Why didn't the Germans build electronic computers for cryptanalysis*” (Kahn 1976) – typescript, Winterbotham, “*Correspondence with Zuse*” – copies, Zuse)  
 Kämmerer, W. (“Bibliography”, de Beauclair, “*Rechnen mit Maschinen*” (de Beauclair, 1968) – extracts, Zuse)  
 Keilhau, H. (Barca, Bull)

Keith, P. [C & K. Clark Ltd] (Clark, Foster, Latin hexameter machine)  
 Kendrick [Nat. Reference Library] (Weiner)  
 Kenney, J.P. [IBM] (“Bibliography”, Millionaire)  
 Kilburn, T. (Colossus, ENIAC, EDVAC, “*History of Computers in Manchester 1945-1947*” – autobiographical note, Newman, Phillips, Turing, Williams)  
 Kings College Library (Turing, Vickers)  
 Klir, G. (Weiner)  
 Kneiss, H.E. [NCR] (Desch, NCR adding and accounting machines)  
 Knight, J. (Illinois, Metz)  
 Knuth, D.E. (“*A Computer Perspective*” – *Historia Mathematica* review, Cleaver, de Lagny, Feindler, Halladay, Hopper, Kahn, McCarthy, “*Origins*” – *Historia Mathematica* review, Whirlwind)  
 Kobrinskiy, N.E. (Ershov, Meyer zur Capellen)  
 Kruh, L. (Colossus)  
 Kuck, D.J. (Babbage, Couffignal, Gamma 60, Hyman, Zuse)  
 Landau, T. (“Bibliography”, Colossus)  
 Larson, E.R. (ENIAC patent suit, Halladay)  
 Larter, J.E. [Scientific Periodicals Library, Cambridge] (Babbage, “*Babbage material*” – catalogue extract, Trask)  
 Laski, A. (Lovelace)  
 Laski, J.G. (Laslett, Lovelace)  
 Lavington, S. (“*A Storage System for use with Binary digital computing machines (Kilburn 1947)*” – copy, ACE, ARC, Blackett, “*Booth*” – copy of correspondence, Cambridge, EDSAC, Glennie, Manchester, NPL, “*NPL-Manchester*” – memos, NRDC, Post Office, Toothill, Wilkes, Woodger)  
 Lawlor, R.C. (Berry, Tropp)  
 Leech, J. (Churchhouse, “*Codebreakers*” – review by Muggeridge, Colossus, Friendly, Hooper, Kahn, McDermott, Muggeridge, Norman, Philby, Sinkov, Turing, von Neumann, Winterbotham)  
 Lehman, M.M. (“*1936 Counting Device at Science Museum (The Times, 20 Dec 1962)*” – photocopy, “*A Note on the history of the Electronic Computer (Phillips)*” – photocopy, “*Babbage, Electronic Computers and Scales of Notation (Phillips 1962)*” – photocopy, “*Phillips*” – letters)  
 Lehmann (Burkhardt, D1, Reuleaux, Zuse)  
 Leibler, R.A. (Turing)  
 Leonardo Torres y Quevedo Centro de Investigaciones Fisicas (Torres y Quevedo)  
 Levenson, A.J. (Colossus)  
 Lewin, R. (Beesley, Bertrand, Bomba, Campaign, Colossus, Enigma, Flowers, Good, Gores, Lisicki, Madam-x, Saunders, “*Ultra Goes to War*” – detailed comments by Saunders, Winterbotham)  
 Lisicki, T. (Bonbe, Colossus, Enigma, Heath Robinson, Welchman)  
 Liverpool Univ. Library (Lovelace, Moore)  
 Logabax (Campos, Couffignal)  
 Lone, H. Francis de [Dechert, Price & Rhoads] (ENIAC patent suit)  
 Longworth, C.R. [Hampshire College] (ENIAC, Goldstine)  
 Lorch, R.P. (Bowden, Phillips)

Losano, M.G. (17<sup>th</sup> C calculating machine, Babbage, Colossus, Elek, Leibniz, “Origins”, Scheutz, Zuse)  
 Luebbert, W. (“A Computer Perspective”, AFIPS, Campaigne, Campbell, Comrie, Coombs, Dubbey, de Beauclair, Eames, Leibniz, “Origins” – review, Pugh)  
 Lukoff, H. [Sperry-Univac] (Goerlitz, Harmon, Powers, Remington Rand Type 309, Univac)  
 Lutyens, C.R. [The Library, Middle Temple] (“Phillips” – articles)  
 Lutze, S [CBI] (Campbell-Kelly, Decca, Ferranti, ICL Rank)  
 Lynch, A.C. (Bedstead, *Colossus* – detailed comments, Flowers, Good, MOSAIC, Photographic mask, Pugh, Scott, Speight, Telegraph transmitter, “Transmitter, Telegraph, Mark I” – note)

### BR/3/20/3/5

MacLeod, R. (Boys, Conway)  
 MacMillan Complany (Rosenberg)  
 Maddison, W. [Post Office] (Elliott, Turing)  
 Maistrov, L.E. (Russian calculators)  
 Malik, R. (“Bibliography”, Colossus, Hoyle, Turing)  
 Mapstone, R. [Smithsonian] (“Bibliography”, Tropp, Turing)  
 Markham, G. [3M company] (Babbage)  
 Marylebone Public Library (Babbage)  
 Mathematical Association (Los Alamos, Newman)  
 Mauchly, J. (Colossus, EDVAC, Los Alamos)  
 May, C.A. (“Bibliography”, Chandler, Colossus, Coombs, Post Office Research Centre, Wilkes, Williams)  
 May, K.O. (Turing)  
 McAllister & Associates (*Astrolabe* – leaflet)  
 McCarthy, J. (Forsythe, Lovelace, Michie, SWAC)  
 McGinty, L. [New Scientist] (Campbell, Colossus, Michie, “Secret War”, “*The Colossi – Britain's Secret Wartime Computers* (Randell) – typescript”)  
 Mealy, G.H. (Aiken, Babbage, “*Houghton Library Babbage holdings*” – detailed descriptive list)  
 Merzbach, U.C. (Scheutz)  
 Metropolis, N. (Colossus, ENIAC, Los Alamos, Turing, Wilkinson)  
 Michaelson, S. (Babbage, Boys, Coburn, ICCE-1, Pringle, Zuse)  
 Michel, J.P.L. (Goodwin, Menzler, “*Notes Regarding the Formation of Mathematics Division NPL (JM 8 Aug 1872)*” – typescript, *NPL Executive Committee minutes* – extract, Phillips, Turing, Womersley)  
 Michie, D.M. (A.M. Turing Trust, Alexander, Andre Deutsch, Atanasoff, Bedford cipher school, Bell, “Bibliography”, Bowden, Bullard, Cairns, Campbell-Kelly, Colossus, Carhart, “*Colossus and the Ultra Secret*” – comments, Croft, “*Discussions Edinburgh 18-3-72*” – notes, Gandy, Gardner, Goldstine, Good, Halsbury, Heath, Hodges, Jenkins, Kahn, Lighthill, Los Alamos, Luebbert, MOSAIC, Newman, “Origins”, Phillips, Robinson, RRE Malvern, Sara Turing, Stoll, Testery, “*The Bletchley Machines (Randell)*” – typescript and

MSS drafts, Torres y Quevedo, Townsend, Vaucanson, von Neumann, Winterbotham, Woodger, Wrens, Wylie, Wynn-Williams, Zuckerman, Zuse)

Miller, J.C.P. (Comrie)

Millington, R. (Babbage, Bush, Carroll, de Morgan, Harwell, Kodak, LEO, Lipson, Petherick relay computer, Powers Samas, Shire & Runcorn relay computer, U.S. Navy Electronic Differential Analyzer)

MIT Libraries (“Bibliography”, Bush, Crawford, Wiener)

Moore, D.L. (Babbage, de Morgan, Lovelace, Moseley)

Moore, L. [ATV] (Colossus, Evans)

Morrell, F.O. (Broadhurst, Chandler, Colossus, Coombs, Dollis Hill, Flowers, Heath Robinson, Newman, Radley, TRE Malvern, Wynn-Williams)

Morris, J. (Edwards, Interlocking, Railway Signalling, Saxby & Farmer)

Morrissey, J. (Babbage, IBM, Stevenson)

Morrison, J.N.L. [Cabinet Office] (Colossus photographs)

Moseley, M. (Babbage, Babbage play, Lovelace, Scott, Watson)

Müller, H. (Czuderna, Zuse)

Mullis, D. [IBM UK] (Colossus)

Munby, A.N.L. [King's College Library] (Turing)

Murphy, L.J. (Kern, Los Alamos)

Namian, P. (Bouchon, Jacquard, Vaucanson)

National Reference Library of Science and Invention (Zuse)

National Register of Archives (Boys, Lovelace)

Neumann, B. de (Bibliographical listing, Cave Brown, Clark, Clippinger, Colossus, ENIAC, Enigma, Evans, Friedman, Geheimschreiber, Heath Robinson, Kahn, “Origins”, Purple machine, “Secret War”)

New York Public Library (Fisher, Hollerith)

Newman, M.H.A. (ACE, Benjamin, “*Colossus: Godfather of the Computer (Randell, New Scientist 10 Feb 1977)*” – photocopy, EDVAC, Goldstine, Good, Halsbury, Hooper, Kilburn, Los Alamos, Ludgate, Michie, New Scientist, “*Questionnaire*” – listing, Wald, Wylie, Wynn-Williams, )

Norman, B. (Kahn, “Origins”, “Secret War”, Turing)

Oksala, S.P. (Burroughs)

Olack, T.J. [IBM] (“A Computer Perspective”, Eames, Gingerich, Los Alamos)

Oxford Univ. Press (Goldstine)

Pack, B. (EDSAC)

Page, N.J. [Institute of Actuaries] (“Origins”, Phillips, Turing, Womersley)

Paland, R. [Olympia Werke] (Arithmaurel, Brunsviga, Gersten, Hahn, Leibniz, Müller, Pascal, Shickhard)

Pedder Associates (Babbage, Moseley)

Pendergraa, J. [IDA-CRD, Princeton] (Knuth, Turing)

Peppercorn, J. [IBM UK] (Connolly)

Perlis, A.J. (Babbage, Bell)

Petri, C.A. (Zuse)

Phelps, B.E. (“A Computer Perspective”, Aberdeen relay multipliers, Billings, Brennan, Bryce, Clark, Columbia Statistical tabulator, Eames, Eccles-Jordan, Eckert, Engeldardt, ERA, HARVEST, Hayward, Hollerith, Huskey, IBM,

Lavington, Luhn, McPherson, Merwin, NCR, NCR differencing calculator and electro-mechanical differencing device – photographs, NSA, Rex, Schreyer, Shipman, SSEC, Zuse)

Phillips, M (Phillips)

Poel, van der (Curta machine, Enigma, Geheimschreiber, Millionaire, Oberman)

Polytechnica Militar, Escuela (Torres y Quevedo, “*World Guide to Libraries*” – extract relating to Spain)

Pout, H.W. [ASWE] (Correlation calculator)

Princeton Univ. Press (Goldstine, Gores)

Probert, R.L. (Colossus, “*Secrecy Still Shrouds Computer (Saskatoon Star-Phoenix, 1976)*” – photocopy of newspaper cutting)

Prudential Insurance Company (Gore, Keefe, Paris, Rainey, Russell, Smith)

Public Record Office (Babbage, Colossus)

Pugh, J. [Science Museum Library] (Atanasoff, “*Babbage, Electronic Computers & Scales of Notation (Phillips, Insurance Monitor, 6 Dec 1962)*” – photocopy of article, Bowden, Calvert, “*Charles Babbage Microfiches and Microfilms of Manuscripts [in SML]*” – lengthy listing, Collier, Colossus, Coombs, de Beauclair, Eckert, EDSAC, EDVAC, Evans, Flowers, Gingerich, Goldstine, Hoffman, Los Alamos, Mauchly, “Origins”, “*Phillips – Letters to SML and Computer Journal*” – copies, Rosen, Trask, Wilkes, Womersley, Woodger, Zuckerman, )

### **BR/3/20/3/6**

Quinlivan, J.T. (Colossus, Enigma)

Quinn, S.M. (Elliott Brothers)

Quintanilla, R.F. [Spanish Embassy] (Torres y Quevedo)

Raimes, J.M. (Colossus, Evans, Flowers)

Raison, G. [Yorkshire Television] (Colossus, “*The Colossi – Britain's Secret Wartime Computers (Randell, Sept 1976)*” – typescript)

Rajchman, J.A. (Computron, Fire control computers, Los Alamos, RCA)

Randall, G.E. [IBM Research] (IBM)

RCHM (Lovelace)

Rees, D. (Colossus, Newman)

Reinhardt, K.F. (Enigma)

Remington Rand (Remington Rand Bibliography)

Revens, L. [Computing Reviews] (Scheyer)

Rhoden Parners Ltd. (Babbage)

Richards, R.K. (Aiken, ENIAC, Honeywell, IBM, Turing)

Rijksbergen, K. van (Ludgate)

Riley, J.F. (Turing Trust)

Rivest, R.L. (Enigma, Turing)

Robinson, N.H. [Royal Society] (Babbage, BCS, Boys, Cohen, Halladay, Hartree, Lavington, Los Alamos, Ludgate, Rosse, Wilkes)

Rohrbach, H. (Colossus, Turing)

Rosenhead, L. (Babbage, Wallis)

Rosse, Lord (Babbage)  
 Routledge, N.A. (Champernowne, Gandy, Turing)  
 Saenz, A.L. (Torres y Quevedo)  
 Saltzer, J.H. (Beesly, Enigma, Johnson, Lewin, Hinsley, Reed)  
 Samet, P.A. (Chandler, Colossus, Coombs, Ershov, Good, Meyer zur Capellen,  
 Newman, Rees, Turing, Wylie)  
 Schrage, L. (Cave Brown, Colossus, Los Alamos, Turing)  
 Schreyer, H.T. (“Origins”, Zuse)  
 Seale, P. (Philby, *Philby book* – extract, Turing)  
 Seligsohn, I.J. [IBM] (ENIAC, IBM Type 602-A, Mauchly, “Origins”, Stibitz)  
 Selwood, R.J. [INMOS] (Enigma, Pincher)  
 Seylhouwer, A.J. (Contina, Curta machine)  
 Shaw, D.A. (Flowers)  
 Siemens (Bornemann, Geisler, Goetzler, Gumin, Siemens)  
 Sinderen, A. van (Babbage, “Bibliography”, Losano, McIlroy, Morrison, Wilkes)  
 Sinkov, A. (Colossus, IBM, Leech)  
 Slepian, D. (Holbrook, Kahn, Shannon, Turing)  
 Smillie, K.W. (Apokin, Colossus, Enigma, Jones, Maistrov)  
 Smith, K. Electronics] (Colossus)  
 Smith, T.M. (Whirlwind)  
 Snell, D.T. [IBM UK] (Connolly)  
 Stachera, H.S. (Bertrand, ENIAC, Enigma, Turing)  
 Stadler, H. (“Origins”)  
 Starr, N. (Graphics, “*The Digital Villain (Baer, 1972)*” – two-page extract)  
 Steffey, C. (Atanasoff, Bell Labs Computers, BINAC, ENIAC trial, “Findings of  
 Fact, Conclusions, and Order for Judgement”, Honeywell, Larson, Ludgate,  
 “Origins”, Turck)  
 Stengers, J. (Enigma, Geheimschreiber, Johnson, Kozaczuk, Lisicki, Luebbert,  
 Stoll)  
 Stibitz, G. (Coombs, Bell Labs relay computers, Good, Dartmouth demonstration,  
 Flowers, Knuth, Madam X, MOSAIC, “Origins”, Totalisator, Turing, von  
 Neumann, Williams)  
 Streeter, D.N. [IBM] (D11, Gillings, Pierce, Tauschek)  
 Strimpel, O. (Evans, E.A. Newman, “Pioneers of Computing”, Raimés, Science  
 Museum, St. Johnston, Wheeler, Wilkes, Woodger)  
 Suekane, R. (Beika, Chason, EDSAC, Electrotechnical Laboratory, Frauberg,  
 Glazebrook, Goldstine, Hibito, IBM, Ito, Japanese computers, Kawaguchi,  
 Los Alamos, May, Shannon, Takahashi, Turing, von Neumann, Williams)  
 Suggett, M.K. [Science Museum] (Raimés, “*Pioneers of Computing*” – information  
 sheet)  
 Svoboda, A. (von Neumann)  
 Science Museum (Babbage)  
 Schultz, C.K. [Drexel Inst. of Technology] (Blodgett, Mauchly)  
 Sadler, D.H. (Babbage, Comrie, Hartree, Hollerith, Hudson, Phillips)  
 Sendov, B. (Atanasoff, Babbage, Berry, Kern, Richards, Scheutz, Turski)  
 Shannon, C.E. (Ludgate, Tropp, Turing, von Neumann)

Smith, T.M. (Crawford, Ludgate, Schreyer, Whirlwind)

Sperry-Rand Corp. (Sperry-Rand)

Stuart, A.A.V. (Babbage, Lovelace, van der Riet)

Tropp, H. ("Abacus", AFIPS, Aiken, Analog, Armer, Atanasoff, Babbage, Berry, BINAC, Bowden, Buxton, Campaigne, Campbell-Kelly, Cohen, Collier, Colossus, Desch, Eckert, Engstrom, Estrin, Everett, Finerman, Galler, Givens, Gottlieb, Halladay, Halsbury, Harvard Mk.1, Hollerith, Horsburgh, Hughes, "*Hurd re Atanasoff*" – correspondence, Huskey, Knuth, Larson, Lavington, Lovelace, Ludgate, Machine 13, Machover, Mapstone, Marquand, May, Mauchly, McCarthy, Mertz, Merzbach, Metropolis, Mumma, Nagler, "*Notes on Electrical Calculating Devices: Analog versus Impulse types*" (Mauchly) – copy, Patterson, "*Pearl Harbour Attack*" – extract from the Congressional Hearings, Perlis, Pierce, "*Preserving the History of Computing*" – copy of brochure describing the joint AFIPS/Smithsonian Computer History Project, Prime Minister, Rand Corporation, Reid-Green, Rowning, Sardinias, Schreyer, Shapiro, Smithsonian Institute, Stibitz, Strachey, Svododa, Tauschek, Todd, Torres y Quevedo, Trask, Turck, Turing, von Neumann, Watson Laboratory, Wiener, Wilkes, Winnacker, Worlton, Wynn-Williams, Zemanek, Zuse)

Tomash, E. (Armer, "*Charles Babbage Institute for the History of Information Processing, Draft Working Paper #4*" – copy, Gowing, Wilkes)

Torres-Quevedo, L. ("*Origins*" – photocopied extracts concerning Torres y Quevedo, Torres y Quevedo)

Todd, J. ("*Alan Mathison Turing 1912-1954 (Tausky and Todd)*" – obituary copy, Baxter, Cannon, DYSEAC, Lyndon, Merzbach, "*Comments on talks at Los Alamos by J.H. Wilkinson and by F.L. Bauer*" – typescript, Oberwolfach, SEAC, Zuse)

Trask, M. (ACE, Airy, Babbage, Babbage ("*Trask, at Warwick University*") – lecture foils, Babbage drawings, Berkeley & Wainwright, Bowden, Buxton MSS, Cohen, Dibner, Dirk, Dubbey, EDVAC, Elliott Brothers, Herschel, Hoffman, Hopper, Howlett, Humphries, IBM SSEC, Lewis, Nudds, "Origins", McCarthy, Pengelley, Phelps, Raimes, Rozenberg, Schelberg, Science Museum, Wright, Zuse)

Trust, The A.M. Turing ("*Alan Turing (1912-1954): An Enigma (Hodges, Cohen)*" – book draft, Burnett, Croft, Deutsch, Hodges, "*Memorandum for the A.M. Turing Trust from J. Turing re proposed book by Hodges and Cohen*" – typescript, "*Minutes: 6 July 1979, 10 Nov. 1976, April 1976*" – copies)

Tyler, R.D. (Curta machine, Cutts)

Tully, C. (Edwards, Railway Signalling, Saxby and Farmer machine, Thompson)

Turski, W. (Atanasoff, Bertrand, Denniston, Enigma, Goldstine, Knox, Kozaczuk, Osuchowska, Rejewski, Sendov, Stern, Stern – note)

Tutte, W.

Turing, E.S. ("*Bachman Turing Lecture*" – text, Booth, Chamberlain, Champerknowne, Church, Enigma, Gandy, Hall, Lerner, Michie, "*Turing paper*" – listing, Wiener, Womersley)

Taylor, J.M. (Turing, Turin police)

Thompson, T.R. (Eckert, EDSAC, Goldstine, Lehman, LEO, Ludgate, Pugh, Tropp)

Tucker, M.J. (Autocorrelator, Barber, Pout)  
Tribune, Des Moines (Atanasoff)  
Tissus, Musée de (Bouchon, Falcon, Jacquard, Vaucanson)  
Todd, J. (National Accounting Machine, von Neumann)

**BR/3/20/3/7**

US Dept. of Commerce (Zuse)  
US Patent Office (Mann, Zuse)  
Uttley, A.M. (Babbage, Davies, Newman, Turing, Wilkinson)  
Vergine (Campaigne, Colossus, Leveson, Newman)  
Vickers, T. (Turing)  
Wallis, P. (Hellins, Williams)  
Walsh, J. (Curta, Differential Analyzer, Hartree)  
Walter, A. (D11 tabulator, Ganzhorn, Shickhard)  
Ward, F.A.B. (Colossus, Enigma, Flowers, Heath Robinson, Wynn-Williams)  
Watt & Son (“Bodyguard of Lies”)  
Weart, S. [American Institute of Physics] (Condon, “*Edward U. Condon: Transcript of an Interview taken on a tape recorder, session 2, by Charles Weiner, on April 27, 1968*” – extract, Game of Nim, Nimitron, Stern, Weiner)  
Weeks, A.P. [Burroughs] (Dirks)  
Weidenfield & Nicholson (“The Ultra Secret”, Winterbotham, Los Alamos)  
Weinberg, J.C. (Colossus, Johnson, Turing)  
Welchman, G. (Calvocoressi, Campbell-Kelly, Colossus, Dollis Hill, Eckert-Mauchly, Engstrom, ERA, Ferranti, Forbes, Good, John Lewis Partnership, Manchester University, MIT, Newman, NPL, Paley, Pollard, Powers Samas, Remington Rand, Travers, Turing, UNIVAC, Whirlwind, Wiener, Shannon, Wilkes)  
Wells, M. (Zuse)  
Whitfield, H. (Darmstadt)  
Wildes, K. (Abelson, Atanasoff, Bowles, Bush, Caldwell, Colossus, Crawford, Deeds, Dennis, Desch, ENIAC, Hooper, Howard, Larson, Los Alamos, Mailufterl, McVicar, MIT, MITRE, Mumma, NCR, Overbeck, Poillon, Radford, Rapid Arithmetical Machine, Rapid Selector, Tropp, Whirlwind)  
Wilkes (Aiken, Babbage, “Bibliography”, Bush, EDSAC, Gill, Halsbury, Hartley, Losano, Lovelace, Lynch, Mauchly, “Origins”, Tropp, Turing, von Neumann, Wheeler, Zuse)  
Wilkinson, J.H. (Turing, Michel, Phillips, Womersley, Woodger)  
Williams, F.C. (Broadhurst, Chandler, Coombs, Colossus, Kilburn, Michie, Newman, “Origins”, Turing)  
Williams, J.H. (Babbage, “Bibliography”, Eureka, Los Alamos, Ord-Hume, Turing)  
Williams, J.W.J. (Elliott Brothers, Elliott 152/401/402/403, Hersom, Melliar-Smith, St. Johnston)  
Williams, M.B. [Post Office Telecommunications Headquarters] (Broadhurst, Chandler, Colossus, Coombs, Flowers, May)



Williams, M.R. (Babbage, Baxandall, Blanchard, Brieux, Brown, Chase, Cohen, Collier, Cumbrian counting system, d'Ocagne, Diderot, Difference Engines, Galle, Grillet, Hellins, Henneman, Horsburgh, Jacob, Losano, Martin, May, Mehmke, Merzbach, Metropolis, Meyer zur Capellen, Pascal, Scheutz, Taten, Turck, Walker, Willers)

Wilson, J. [NPL] (Evans, "Pioneers of Computing")

Winksworth, R. [Oxford School] (Differential Analyzer, "Origins")

Winsor, P. (Call, Colossus, Dirks, Eckert-Mauchly, EDVAC, Goldstine, Honeywell, Huskey, IBM, Ludgate, Magnetic Calculator, Metropolis & Worlton, NCR, Sharpless, Sperry Rand, Stored Program Concept, Tropp, Turing, von Neumann, Zuse)

Winterbotham, F.W. (BBC, Bomb, Bronze Goddess, Colossus, Enigma)

Wolfe, R. [National Archives & Records Service] (Enigma, Fantet de Lagny, Knuth, Lewin)

Womersely, D.N. (Dagnall, ENIAC, Fairthorne, Goldstine, Turing, van Rijsbergen)

Wood, C. ("*Conversation with Mr. Charles Wood about E.W. Phillips (Randell 20 May 1974)*") – MSS, Cutriss, Gale, "*History of Manufacturers Life (unpublished)*" – extracts)

Wood, J.H. (British Library, Microfiches)

Woodger, M. (ACE, Campbell-Kelly, Gandy, Lubkin, Turing, von Neumann, Womersley, Wilkes)

Woolfe, H. [Science Museum Library] (Colossus, "Origins")

Worlton, J. (Knuth, National Accounting Machine, "Origins", Turing, Todd, von Neumann)

Wyeth, D. (Colossus components, Science Museum)

Wynn-Williams, C.E. (Babbage, Barnaby, Bowden, Broadhurst, Bronze Goddess, Cavendish, Chandler, Colossus, Coombs, Flowers, Harwell, Heath Robinson, Lewis, Los Alamos, Newman, "Origins", "*Questionnaire*" – questions and replies, Science Museum, Tutte, Turing)

Ynfiesta, D. Luis de la [Consejo Superior de Investigaciones Cientifica] (Torres y Quevedo)

Zemanek, H. (Automata, Bell & Newell, Bowden, Buchner, Chapuis & Droz, Comrie, Doyon & Liaigre, Ekölöf, Gardner, Kircher, Lauer, "Origins", Schäffler, Torres y Quevedo, Vaucanson, van der Poel, Zuse)

Zuse, K. (Adams & Hart, Bauer, Colossus, Davis & Charles, "Der Computer, Mein Lebenswerk", ENIAC, Flessati, Fromme, GMD, Kahn, Kämmerer, Krückeberg, Lehmann, Mauchly, "Origins", "*Patents*" – listing, Plankalkul, Schreyer, Seegmuller, Springer Verlag, Switching Element, Teichmann, Torres y Quevedo, Turing, Wagner, Wossner, Z1)

**Publishers:**

McGraw-Hill Book Company (Aiken, Babbage, Hamming, IBM 601, Ludgate, "Origins")

Adams and Dart (Elton, "Origins")

Academic Press (Aiken, Babbage, EDSAC, "Origins")

Cambridge University Press (Comrie, "*Origins*" – early outline)

## BR/3/20/3/8

### **Miscellaneous:**

- Burnett, P. [Andre Deutsch] (Development of the computer)  
Bryan, W.E. [Andre Deutsch] (Development of the computer)  
Chesson, F.W. (Turing, “Zodiac Case” – MSS)  
Colliesen, F.R. [Heffers] (“Alan M. Turing”)  
David & Charles (Babbage, Losano, Zuse)  
Elcock, E.W. [University of Aberdeen] (Data directed control and operating systems)  
Miche, D. (“Introduction – to Machine Intelligence Workshop 7” – copy)  
Moler, C. [University of Michigan] (Solving linear equations)  
Randell, B. (“Circulation List: On Alan Turing and the Origins of Digital Computers” – typescript and MSS, “Preserving the History of Computing – AFIP computer History Project” – booklet))  
Ryan, D.P. [Eastgate Hotel, Oxford (Michie, Randell)  
Smith, A.V. [Datamation] (Ludgate, ENIAC, HP-65)  
?, John [University of Leeds] (“Faster than thought”)

### **The Rt. Hon. E.R.G. Heath:**

- Heath, E..G. (Declassification of Colossus, Official classified record of Colossus project)  
Simcock, A.H.C. (Official classified record of Colossus project)

### **Mr R.Dierstein:**

- Dierstein, R. (Berger, “Bibliography”, Binary arithmetic, Brauner, Fantet de Lagny, Hamann, Knuth, Leibniz, Siemens, Weygandt)  
Schwarzer, Dr. [Siemens] (“Origins”)

### **Prof. D.E. Knuth:**

- Knuth, D.E. (Aiken, Bauer, “Bibliography”, Comrie, EDVAC, ENIAC, Goos, Greenberger, Hollerith, Madame X, Manchester, Mauchly, NPL, “Origins”, Schreyer, Source book, Todd, Tropp, Turing, von Neumann, Zuse)  
Madden, E.H. (Source book)

### **Prentice-Hall:**

- Forysthe, G.E. (“Origins” proposal)  
Jones, L.J. [Prentice-Hall] (“Origins” proposal review)  
Karlstrom, K.V. (“Origins”, Proposal reviews)

### **Harper & Row:**

- Perlis, A.J. (“Origins”)  
Vance, B.E. (Knuth, “Origins”, Perlis)

## BR/3/20/4/1

- Adams, J.F. ( “Bletchley Park” – MSS letter to GCHQ, Newman)  
Akl< S.G. (Jevons)  
Alton, J. (Contemporary Scientific Archives Centre)  
Andrews, J.D. [BT] (Flowers, Hughes)  
Arbel, A. (Aiken, Babbage, Eckert, ENIAC patent trial, Goldstine, von Neumann)

Arno Press (Turck)

Atherton, W.A. (*History of Computing* – extract from a draft account, “*Some Development Period Computers*” – table, Zuse)

Axford, J. [IBM UK] (IBM Europe Antique Calculators Collection, Malassis-Chauvin “*Selected Models from the Antique Calculators Collection*” – listing with photographs)

Babbage (“*Babbage Tests Extended* (Computer Weekly, 3 Sept 1987) – copy of article)

Belady, L.A. (Swan, “*Swan's Way, a study in style*” – IEEE Spectrum copy)

Bell, Gordon (Arithmometer, Delehar, Millionaire calculator, Woodall)

Bell, Gwen. (The Adder calculator, Taylor)

Belmore, K. [University of Pennsylvania] (Bush, ENIAC, Hughes, Mauchly, “Origins”, Rapid Arithmetical Machine, Wildes)

Beniger, R. (Babbage, ENIAC, “*Reflections on ENIAC on its 40th anniversary*” – typescript of paper to appear in Computerworld)

Bennett, J. (Elgar's code)

Bird, R. (Babbage, Lardner)

Boswell, C. [C & J Clark] (Eureka, Latin Hexameter machine)

Brett, P. (“A Computer Perspective”, Babbage, “Bit by Bit”, “Origins”, Turing)

Briggs, Lord Asa (Colossus, Solomon)

British Library (Invoice for copy of Babbage correspondence)

Bromley, A.G. (“*A Mysterious Advertisement*” – typescript, Aiken, Annals, *Analytical Engine simulations* – typescript algorithms, “*AE Simulation – Simulation of Babbage's Analytical Engine – 1838*” – typescript, Babbage, Bush, calculators, Caldwell, Cataloguing of Babbage papers, CBI Reprint Series, Deacon, Delta, Halland, Hazen, planimeters, Radford, Rapid Arithmetical Machine, “*Scientific Calculating Devices*” – leaflet, slide rules, Stein, Tee, “*The Case of the Missing Memoranda*” – typescript, Williams)

Buelow, R. [Deutsches Museum] (Campbell-Kelly, Campos machine, ICL, Powers Samas, Weygandt)

Burke, C.B. (Campaigne, Cohen AA, Cohen IB, Dumey, Eachus, Jensen, MIT, NCR, NSA, Sperry-Honeywell trial, Stibitz)

Burks, A.W. (Eckert, ENIAC, Los Alamos, Mauchly, Report on an Electronic difference Analyzer)

Bush, V. (“*Appendix A: Remarks of Vannevar Bush to Project INTREX Planning Conference, 2 Aug 1965*” – copy, “*Papers held in Library of Congress*” – MSS listing)

Buxton, J.W. (Babbage, Bromley, Buxton, Difference Engine, King's College, Science Museum)

Call, C.G. (Bush, Rajchman), Rapid Arithmetical Machine Project)

Campbell-Kelly (Campos Machine, Powers Samas)

Ceruzzi, P. (Annals, Galler, Gunston, Henschel HS 293, Taylor, Z-4, Zuse)

Cohen, I.B. (De Prà, Eames,

Contemporary Scientific Archives Centre (Alton, Gowing, Kurti, Progress Reports)

Coombs, A.W.M. (Comp. Reviews Nov. 1984 p. 636)

Cooper, J.E.S. “*Obituary – Mr Joseph Cooper, Major contribution to wartime codebreaking: Times, 16 June 1981*” – cutting)

Croarken M. (Bellringer, Campbell-Kelly, Comrie, ICL, Tee, “*The Hollerith and Powers Tabulating Machines*” – photocopy of title page and preface)

Davies, D.W. (Beth, Colossus, “*Comments on the SZ machine at Oslo Defence Museum*” – MSS, Deavours, Kahn, Enigma, Enigma-Uhr, Geheimschreiber, Gollman, GMD, Hasenjaeger, Huttenhaim, Lorenz SZ 42, Mache, McKeeman, Rohwehr, Schreyer, SEL, Siemens T 52, Weierud, Zuse)

Dorsey, Windhorst, Hannaford, Whitney & Halladay (Bush, ENIAC, Rapid Arithmetical Machine)

Douglas, P. [Baker & Smith] (Babbage, Bell, Bromley, Hyman, Millington, Totnes Museum)

Durniak, A. [Electronics] (Colossus photographs)

### **BR/3/20/4/2**

Edgerley, P.G. (Colossus, Good, Heath Robinson, Michie, Newman, Newmanry, Testery, Wylie)

Emmerson, A. [British Telecom] (Colossus, Fish, Flowers, GCHQ, Hayward, “*Hayward correspondence with Emmerson, and with Adye*” – copy, Hisley, Martlesham Medal)

Enigma (Davies, Kahn, McKeeman, “*The Enigma Cipher Machine: B. Randell, 20 Mar 1981*” – typescript)

Erskine, R. (Colossus, Davies, Dr Neher Laboratoriu, Enigma, Galler, “*Naval Enigma*” – photo, Rohwehr, Royal Signals Regiment, Tropp, Typex machine, Weierud)

Fara, P. [Prismatron] (ARC, Colossus, Leo, Manchester, Photographs, SEC)

Fells, I. (Elgar, Kahn)

Field, C. (Colossus photographs)

Flesatti, D. (Babbage, Colossus, Enigma, Johnson, Secret War, Welchman)

Flowers, T.H. (Bell, Bell Labs machines, Broadhurst, Chandler, Colossus, “*Colossus Schematic*” – drawing, “*Comments on Lecture Draft*” – typescript, DEC, Digital Museum, ENIAC, Fish, Geheimschreiber, Hinsley, Lynch, Martlesham Medal, Newman, NPL, Photographic mask, Stored program, TDM exchanges)

Forster, G. (Calvocoressi, Colossus, Garlinski, Hinsley, Johnson, Lewin, Michie, Rohwehr)

Frison, G. (Babbage, Bacon, Smith)

Galler, B.A. (Czechoslovakia, Weiner, Zemanek)

Gifford, D. (“*Bibliography*”, Colossus, Metropolis)

Gowing, M. (Alton, “*Contemporary Scientific Archives Centre*” – progress report)

Gribble, C.H. (Computer Museum, Hamilton)

Griffiths, H. (Colossus, Enigma, RAF, Rushby)

Halladay, H. (Bush, Caldwell, ENIAC, Goldstine, Hazen, Rapid Arithmetical Machine Project, Stern, Wildes)

Handler, W. (Catalogue, Handler, “*The Computer Museum*”)

Hayward, G. (Bombs, Chandler, Colossus, Coombs, Dollis Hill, Enigma, “*Enigmatic – Letter to the Editor*” – cutting, Flowers, Geheimschreiber, Newman, SZ 40/42, Wright)

Hayward, G. (Colossus, Hinsley, SZ 40/42)

Hewes, J.E. (“*A Master of Understatement: Datamation v. 26, no. 5*” on Atanasoff – photocopy, Allard, “*Amending the ENIAC Story – J.W. Mauchly (Datamation Oct 1979)*” – photocopy, Bakelite, Brainerd, Bush, Caldwell, Ceruzzi, Eckert, ENIAC, Gillon, MIT, “*Pieces of the Action*” – extract, Rapid Arithmetical Machine Project, Rapid Selector Project, Simon, Stern, Stored program, “*The Computer from Pascal to von Neumann – H.H. Goldstine*” – extract, Wildes)

Higgins, Thomas (“Origins”)

Hine, W. (Berisfords, Brocklehurst Fabrics, “*Catalogue*” – extracts, Jacquard woven picture, Langhart, Maschinenfabrik Ruti)

Hinsley F.H. (“*Developments In The Organisation of Intelligence*” – photocopy of extract)

Hitch, F.A.N. (Adelphi Lectures, Campbell-Kelly, Turing)

Hodges, A. (“Checking a Large Routine”, EDSAC, Garlinski, Michie, Turing)

Hogan, L. (“A Solid State of Progress”, “Origins”)

Howlett, J. (“*Computing Museum and Archive* – ICL typescript, Need for a computer museum)

Hughes, T.P. (Belmore, Bush, MIT, Rapid Arithmetical Machine Project, Stern)

Hunt, A.G. (Enigma. Hut 6, Los Alamos, Purple machine, Rohwehr, Welchman)

Hyman, A. (Advertisement, Babbage, Deacon, Delta)

IBM Italia (“Bibliography”, Cohen, Eames, “*Tre Secoli de Elaborazione dei Dati*”)

IEEE (“A Short History of Computing”)

ISBS (“*From Dits to Bits*” – invoice)

Ishibashi, I. [National Science Museum, Tokyo] (“Bibliography”)

Jori, G. (Colossus, Hinsley, Turing)

Kading, M.F. [Dorsey, Windhorst, Hannaford, Whitney & Halladay] (Halladay)

Kahn, D. (Babbage, Catterick, “*Codes are the Key to Victory: The Examiner, Tasmania, Feb 18 1984*” – photocopy, Colossus, Coombs, Cryptologia, Davies, Elgar, Flowers, Garlinski, Higinbotham, Hinsley, IEE, IEEE Spectrum, “Kahn on Codes”, Lynch, Playfair, Pforzheim, “Spycatcher”, SZ 42, Times Personal Column, Type X machine, Video game)

Kenney, D.P. [IBM Archives] (“Bibliography”, Millionaire)

Kinniment, D. (“*Unbreakable Code Claims Scrambled*” *Nature vol 325, p.199*” – photocopy)

Kisterman, F.W. (Austrian, Hollerith)

Knuth, D.E. (Jacomy-Regnier, Ward, Wynn-Williams)

Kruh, L. (Colossus, Davies, Enigma carry mechanism, Los Alamos, Rohwehr, SZ 40/42, “*Letter from D.W. Davies to Kruh with details of Type X machine*” – carbon copy)

Kurtis, N. (Alton, “*Contemporary Scientific Archives Centre – tribute to Jean Alton*” – extract)

Langhart, H. [Gessner AG] (Brocklehurst Fabrics, Hine, Jacquard woven portraits, Maschinenfabrik Ruti, Maurer, Strimpel)

Laver, F.M. (Babbage, Fowler calculating machine, Goss calculating machine, “*Mr John Goss: extract from the Report & Transactions of the Devonshire Association 41 (1909) p.359*” – typescript)

Lawlor (Babbage, Calculators, da Vinci, Dudley Observatory, Gravatt, “*Madrid Codices*” – extract, Scheutz, Tropp)

Leech, J. (Babbage, Bauer, Colossus, Dickson, Eckert, Geheimschreiber, Gill, Hinsley, Knuth, NATO, Robinsons, Saunderson, Smith, Software engineering)

Leslie, M. (“*Dear Descartes, a word about that computer*): *Interview about the Hartlib Archive, Sheffield University, The Observer, 5 Mar 1989*” – cutting)

Librarie Monge (“*Histoire des Sciences et de la Medecine (1981)*” – listing)

Library of Congress (Bush, Rapid Arithmetical Machine Project, “*Vannevar Bush Papers*” – listing, Wildes)

Library Photographic Section (“*List of historic computing photographs*” – typescript)

Lister, R. (Bromley, IBM SSEC, Phelps)

Lockson Services (Arithmometer, Delahar)

Löringhoff, B. von Freytag (Shickhard)

M.I.T. (Bush, Rapid Arithmetical Machine)

Mache, W. (Beutelspacher, Davies, Enigma, Goetzeler, Hinsley, Johnson, Lorenz SZ machines, Siemens Geheimschreiber, Secret War Series, Sturgeon, SZ42 photographs, Thrasher, Timm, Tunny)

Matthias, M. (BINAC, EDVAC, Metropolis, Moreau, Stern, UNIVAC 1, Williams)

McIlroy, M.D. (Buxton)

McKay, C. (Cave Brown, Chandler, Colossus, Coombs, ENIAC, Flowers, Turing, von Neumann, Welchman)

McKeeman, W.M. (“Bibliography”, Deavours, Enigma simulator, Garlinski, Hodges, Rejewski, Turing)

McNeil, J. (Genaille, Napier's Bones)

Middleton, A. (“*Antique Scientific Instruments*” – leaflet)

Mounier-Kuhn, P.E. (Cambridge lecture series, Couffignal, Elliott Bros., Ferranti, ICL)

### **BR/3/20/4/3**

*Napier's Bones* (Leaflet & construction kit)

National Archives and Records Service (Bush, Rapid Arithmetical Machine Project)

NCR (Bush, Call, Cavender, ENIAC, Halladay, Hazen, Honeywell, Kneiss, “*Notes on Rapid Arithmetical Research – May 24, 1940: Overbeck*” – typescripts, Oelman, Sperry Rand, Wildes)

NYT (Bamford, Friedman, “*Security Agency bars access to bonsecret material, library records show: 28 Apr 1983*” – cutting)

Palfreyman, J. (Babbage, Campbell-Kelly, Colossus, Eckert, Ferranti, Flowers, Howlett, Kilburn, Lavington, LEO, Mauchly, Minitel, “*Notes on the Development of Computing Systems – B. Randell, 31 March, 1989*” – typescript, “*Origins*” – extracts, “*The Information Age: The Story of the Compute – N. Linde, J. Palfreyman, 1988*” – typescript proposal for a

television series, von Neumann, “*What Defines a 'General Purpose' Computer – A.G. Bromley*” – copy of 1983 Annals article, Wilkes)

Parkhurst, B. (Bell, Dartmouth Archives, Hanover demonstration, Krieger, Stibitz)

Payne, J.R. (“Bibliography”, book dealers)

Pelaez, E. (Software)

Pennsylvania Gazette (Brainerd, ENIAC)

Pickering, J.F. (Julius, Totalisator)

Pryce, M.E. (Babbage, “Bibliography”, Forbes, Honeywell, Norberg)

Ralston, A. (Akl, Jevons)

Robotics Press (“From Dits to Bits”, Lukoff)

Rohwehr, J. (Colossus, Enigma)

Ross, D.T. (Lovelace)

Rubinstein, R (Torres y Quevedo)

Salton, G. (Colossus, Enigma, Flowers, Geheimschreiber), Koczuk, Welchman)

Sammet, J. (Bush, Library of Congress)

Santesmases, J.G. (“Origins”, Torres y Quevedo)

Schreyer, H. (Obituary Notice)

Scowen, R.S. (“*Royal Society Subject Index of Pure Mathematics to 1900*” – extract on calculating machines, “Special Purpose Calculating Machines”)

Searl, J. (Local arithmetic, Napier's Bones, Promptuary)

Shooman, M.L. (Mauchly)

Sinderen, A.W van (Babbage, “Reflections on the Decline of Science in England”)

Smithsonian Institution (Bombe, Comrie, “*Information Age*” – leaflets)

Snyder, S.S. (Bush, Project INTREX Conference, Ludgate, “Origins”, Torres y Quevedo, Wildes)

South, J. (*Letters to Babbage* – copies and transcripts)

Stibitz, G. (Bush, Crawford, NRDC, Rapid Arithmetical Machine Project, Taylor)

Stumpf, W.. [IBM] (Alice, Babbage, Hunting of the Snark)

#### **BR/3/20/4/4**

Taylor, R.E. (Bell, Shickhard, von Freytag Löringhoff)

Tee, G.J. (Babbage, Babbage Partners, Berg, “Breaking the Code”, Bromley, Campbell-Kelly, Cateley, “*Charles Babbage (1791-1871) and His New Zealand Connections: – G.J. Tee*” – copy, Clark, Colebrook, Collier, “*Computers and Mathematics – G.J. Tee, The New Zealand Mathematics Magazine (Sept 1987)*” – copy, Comrie, “*Eureka*” – picture, “*From Monsters to Micros, in Looking Back to Tomorrow – G.J. Tee (1985)*” – copy, “Glory and Failure: The Difference Engines of Johan Müller, Charles Babbage and Georg and Edvard Scheutz”, Franksen, Hartree, “*I am a Mathematician – N. Wiener*” – extract, John Neper, “*Premier Pionnier de l'Aide au Calcul: Ordinateurs, 2 Nov 1987*” – copy, Ligonnière, Lindgren, “*Mathematical Science in New Zealand*” – copy, *Maistrov and Petrenko* – review, “*Mathematics in the Pacific Basin – G.J. Tee, BJHS (1988)*” – copy, Meccano Differential Analyzer, Merzbach, Müller, Newman, Promptuarium, Scheutz, “Still Secret”, “*The Early History of Computing, Part 1: Before Computers:*

*SEARCH – Science and Technology in Australia and New Zealand*, 18, 5 (1987) – G.J. Tee” – copy, Totalisators, Turck, van Sinderen Whale, Wiener, Wilkes, plus numerous other papers and reviews, on various mathematical and other subjects)

Tropp, H. (Davies, Evans, Overhoff, Zuse)

Trust, A.M. Turing (Good, Hodges, Michie, Newman)

UNISYS (Hartree, Lavington)

Weierud, F. (Fricke, Jensen)

Wildes, K.L. (Bush, Crawford, Overbeck, Lindgren, NCR, Radford, Shannon, “The First Electrical Century”)

Wilkes, M.V. (Clifford)

Williams, M. (Advertisement, Babbage, Comrie, Cooper, Cunningham, Deacon, Delta, Donkin, Holland, Kohler, Lardner, Pearson, Scheutz, Gravatt, Tee)

Woodall, L. (Abacus, Comptometer, Friden, Monroe, Turck)

Woodall, L.W. (Elector-mechanical altitude calculator)

Woolston, J.E. (Base-three computers, Campbell-Kelly, DSIR Interdepartmental Committee on High-Speed Calculating Machines, Galler, Guzman, Trivalent logic)

Zuse (Davies, “The Emancipation of Data Processing”, Schreyer, University of Hamburg)