Papers of (Philip) Hope Edward Bagenal

1	Acoustics: sketch drawing for a concert hall; plan of proposed chapel in south aisle of choir for Rolvenden Church; diagrams showing 'Acoustics - the behaviour of ceilings'; photographs and correspondence relating to the Ba'hai Temple, Wilmette, Michigan, USA, 1974; diagrams showing 'Density of returning rays' and the focussing of sound; graph showing 'NPL tests for "straight line" absorbents on 2" battens', Feb 1936; journal articles: 'Acoustics of Auditoriums' by F.R. Watson, in <i>The Brickbuilder</i> and 'Acoustics for music performers: do economic pressures defeat the aim of a first- class auditorium? A leading acoustical consultant and architect examines the crucial problems involved in designing for sound.' by Russell Johnson, in <i>Musical</i> <i>America</i> , Mar 1960; manuscript notes on Robert Adam and eighteenth century acoustics from <i>Robert Adam and his circle</i> by John Fleming; correspondence between John McLaren, BBC Engineering Department, and Hope Bagenal relating to acoustics of BBC studios, 1 and 7 Mar 1939; Admiralty Fleet Order and diagrams on cinema acoustics in HM ships, with covering letter from HMS <i>Fulmar</i> , Lossiemouth	1936, 1939, 1960, 1974, n.d.
2	Acoustics: correspondence and press cuttings; typescript papers: 'Report on sound absorbents suitable for tropical countries' by Hope Bagenal, 'Notes on the acoustics of dramatic verse', 'An acoustic questionnaire for organists' by Hope Bagenal and 'Questionnaire on acoustics of concert rooms'; notes, including on the auditorium of Manchester Free Trade Hall and the acoustics of early temples; tables comparing reverberation times of halls; blue print drawing of anti-vibration mats to stancheon bases in the top of the retaining wall of Saville Theatre, 1930; journal articles	1923-72
3	Acoustics: page proofs, with manuscript amendments, of <i>Planning for good acoustics</i>	n.d.
4	Acoustics: <i>Hörsamkeit grosser Räume</i> by Eugen Michel (Braunschweig, 1921), with manuscript papers enclosed translating the work to English; Department of Scientific	1921, 1939, 1962

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	and Industrial Research Sound transmission in buildings: practical notes for architects and builders by R.Fitzmaurice and William Allen (HMSO, 1939); Music, acoustics and architecture by Leo L.Beranek (New York and London, 1962)	
5	Architecture, vernacular - Ardington Wick Cottages: rough plans; floor plans and sections; black and white photographs	1960
6	Leo L.Beranek: copy of a letter from Hope Bagenal to Beranek relating to Beranek's book and the acoustics of concert halls, 9 Oct 1961; manuscript notes by W.Allen `on the paper by Beranek etc., on the Phil[harmonic] Hall, New York'; article `Acoustical design of Philharmonic Hall' by Leo L.Beranek and chapter 15 of a book also relating to the Philharmonic Hall, Jun 1962	1961-2, n.d.
7	Bandstands, acoustics: article; correspondence relating to adjustable absorbents; photographs; typescript paper `Bandstands' by Hope Bagenal; drawings, including of Salisbury, Rhodesia; newspaper cuttings	<i>c</i> .1930-60
8	Cathedrals: 'The Reverberation Times of Some English Cathedrals' by H.J.Purkiss in <i>Building Research Current</i> <i>papers</i> , 1963; graphs of reverberation times at Durham and Coventry Cathedrals; covering note to Hope Bagenal about the Coventry measurements, 1964	1963-4
9	Cathedrals, acoustics of: copy of parts of a paper on the use of loudspeakers, with reference to Canterbury Cathedral, <i>c</i> .1958; plan of Canterbury Cathedral chapter house, n.d.; correspondence with Alex Wood, Emmanuel College, Cambridge, and with the Dean of Ely Cathedral with regard to loudspeakers, 1937; carbon copy of a Department of Scientific and Industrial Research report on the acoustics of Gloucester Cathedral, Dec 1942; correspondence with Frederick Gibbard, 1961, relating to Liverpool Roman Catholic Cathedral,, and with Hugh Creighton and drawing, relating to absorbing treatment for Liverpool Roman Catholic Cathedral, 1965; correspondence, 1959 and two copies of a journal article `Speech reinforcement in St Paul's Cathedral' by P.H.Parkin and J.H.Taylor, 1952, relating to the acoustics of St Paul's Cathedral; concert programme for St Paul's, 1969	1937-69, n.d.

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and sketch plans; newspaper cutting photographs of Charterhouse Memorial Chapel, n.d., of Thomaskirche, Leipzig, and of the Church of Our Lady and St Edmund, Broughton, Preston, n.d.: `An illustrated guide to the Church of St Michael the Archangel, Kirkby, Malhamdale', with notes on the front cover; picture and acoustics survey of Brighton, St Winifred's Church, 1932: letter to Raymond regarding All Hallows Church, and to Stanley G.Cooke regarding 'Steps toward building a new church', 12 Nov 1960; cutting 'Ouires and where they sing' from The Listener, 1967: ` flyer for Sixty Post-War Churches: a practical and valuable book of reference for Clergy, Architects and all concerned with Building Projects, n.d.; notes on the golden jubilee of St Albans, Mar 1963; copy of St. Jude's Parish News, with handwritten note addressed to Hope Bagenal on the back cover regarding his suggestion. Note on front by Hope Bagenal: 'Noise on Copper Roof', 1966; 'From the altar outwards' by John Betjeman in the Daily Telegraph, 2 May 1960; The City of London Churches by Betjeman;

Churches: manuscript and typescript notes, including a list

of churches to visit, from works on the Anglo-Saxon period, on acoustic pottery and music in the Middle Ages

The Church of St Peter and Paul, Headcorn (the Church Publishers);

journal articles: 'St Andrew's Church, Bristol' from *The Architect and Building News*, Aug 1956, 'A pre-conquest church and baptistery at Potterne' by Norman Davey from the *Wiltshire Archaeological and Natural History Magazine*, 1964, 'Lightning conductors' by J.K.Furse,

'The altar and the liturgy' from *RIBA Journal*, 1964, 'Kastorian churches' by Eileen Watson and Catherine Macdonald; article from *Building Design* on church halls, 1972, The village church band' by Noel Boston in *Amateur Historian*, 1964;

flyer, newspaper article, 1959, and journal article, 1946, relating to meeting houses;

order of service for the Institution by the Right Reverend the Lord Bishop of St Albans and induction by the Venerable the Archdeacon of St Albans of the Reverend Thomas Gill Leech, AKC, as Rector of St Mary,

Hertingfordbury, Sept 1968;

pamphlet *The organ* by F.C.Eden;

letter to Hope Bagenal about the acoustics of the parish

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	church at Rothwell, Northamptonshire, 20 Jul 1956; report on the acoustics of the Armenian Church, Bagdad, by Hope Bagenal and copy of a letter from Hope Bagenal to H.R.Humphries, 1969	
11	Churches, acoustics of: 'Memorandum on the acoustics of new and temporary churches'; 'Good acoustics in new churches: notes on briefing and designing by a consulting architect'; notes on Gothic churches with regard to choral music and the acoustics of buildings; correspondence, including relating to loudspeakers; notes; articles and lectures on church acoustics; photographs; newspaper cutting; copy of the <i>Journal of the Acoustical Society of America</i> reporting on a symposium on architectural acoustics and including an article on acoustical problems in two round churches	c.1959-72
12	Churches, bells: correspondence from the Royal Institute of British Architects; notes; article `The sound control and hanging of church bells', 1944; leaflet of the Anti Noise League	1935-44
13	 Churches, plans and section drawings of: (i) a church hall planned on the diagonal for good acoustics; (ii) All Hallows Church, London Wall; (iii) City Temple, London, 1955; (iv) John Keble Church, Mill Hill, 1955; (v) plans of St John the Evangelist Church, Smith Square, Westminster, with correspondence, journal article, calculations, 1961-70; (v) plans and section drawings of St Mary's Church, Islington, with correspondence, calculations, 1956, 1969-70; (vi) St Paul's, Hamlet Road, Penge, London, 1976-7; (vii) St Teresa Dome; (viii) St William Church, Walderslade, Chatham, Kent; (ix) Thomaskirche, Leipzig, 1929; (x) sketches for the development of the post-reformation auditorium, Church of Scotland; (xi) pencil plan for a church 	<i>c</i> .1929-70
14	Churches, Presbyterian: correspondence; notes, including on Presbyterianism; journal articles; two copies of a typescript paper of the Church of Scotland Home Mission Committee recommendations in regard to church acoustics; postcards	1947-9
15	Churches, pulpits: correspondence; progressive versions of a paper, with annotations, `Thoughts on Dutch pulpits' by Hope Bagenal; notes, including extracts from <i>Parentalia</i> on placing pulpits; sketches of un-named pulpits, of Milan Cathedral pulpit; sketches and plans of Pretoria nave	c.1948-63

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	reflection pulpit; photographs and postcards		
16	Churches, Roman Catholic: typescript paper 'Acoustical planning of Catholic Churches' by Dr. Charles Moller;. manuscript paper 'Acoustics of Catholic Churches'; article from <i>Building Design</i> , 1970	n.d., 1970	
17	Convent, Carmelite: plans, 1934; correspondence, 1963, 1972	1934, 1963, 1972	
18	Coventry: <i>The Future Coventry</i> : some proposals and suggestions for the Physical Reconstruction and Planning of the City of Coventry, published by The Corporation of Coventry.	n.d. [1960s ?]	
19	Germany, Berlin and Bonn: letter of introduction from Adrian Boult of the City of Birmingham Orchestra to Norman Salter on behalf of Hope Bagenal who is travelling to Berlin 1929, including envelope addressed to Boult and correspondence, in German, between Hope Bagenal and the Chief Architect of Bonn	1929-30, n.d.	
20	Halls, design of: typescript draft text, with manuscript annotations, for part of a work by Hope Bagenal on historical buildings for music; annotated proofs for and typescript extracts from `Musical taste and concert hall design' by Hope Bagenal, the <i>Proceedings of the Royal</i> <i>Musical Association</i> , 1951	1951, n.d.	
21	 Halls and auditoriums: copy of Department of Scientific and Industrial Research Building Research Station paper 'Contribution to paper by H.Bagenal on concert hall acoustics' 1948; typescript paper of summing up a discussion on concert hall acoustics, 1948; bibliographic list of material in the RIBA library relating to concert halls; section and plan of Poplar Town Hall; correspondence, including a letter to Peter Parkin about keeping in tune in the key of F, 1962 and relating to Manchester Free Trade Hall,1951-2; manuscript notes, including on the Welsh eisteddfod, on the history of the auditorium, the music hall, Fishamble Street, Dublin and early medieval music; sketch plans for Penzance Pavilion and the Guildhall, St Ives; typescript 'Notes on a rational approach to architecture'; typescript paper on the acoustics of the Royal Festival Hall, with a graph recording reverberation, an illustration of 	1931-75	

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21 [contd.]	pulsed glide displays from three microphone positions with regions of colourations outlined and an illustration of the position of loudspeakers behind the platform risers; black and white photographs: an illustration of the interior of the private theatre, Fishamble Street, Dublin, of Worthing Concert Hall, of the Free Trade Hall, Manchester; photographs and postcard of the interior of German concert halls; three plans, obviously for a publication: number 7, Gewandhaus Leipzig, number 23, St Andrews, Glasgow, and number 27 Concertgebouw, Amsterdam; notes for and typescript copy of `Empirical design of concert halls' by Hope Bagenal; journal articles: `Empirical design concert halls' by Hope Bagenal, 1963, `Calculating sign lines: their relations to the shape of the auditorium' by E.Wamsley Lewis, 1931, note on Manchester Free Trade Hall by Hope Bagenal in <i>The</i> <i>Architect and Building News</i> , 1952, `Musical quality in concert halls: a discussion based on the Royal Festival Hall', 1951, `The acoustics of the Royal Festival Hall, London' by P.H.Parkin, W.A.Allen, H.J.Purkis and W.E.Scholes in <i>Acustica</i> , 1953, `Why a new hall?' from New York Philharmonic Notes, 1975, `Acoustics of music rooms' by Vern O.Knudson, 1931; British Broadcasting Corporation Engineering Division Research Department Reflectors in concert halls and	
22	orchestral studios: report number B-073, 1962 Halls and auditoriums: notes, including from Beethoven letters and relating to period musical instruments, hand coloured plans of Bechstein Hall, London, and Queen's Hall, with attached typescript notes; journal articles: 'Concert halls' by Hope Bagenal, 1950, 'The Vienna state orchestra' by Desmond Shawe-Taylor, 1954; copy of <i>Orpheus: a story in music by Claudio Monteverde</i> (Oxford, 1925); notes and a journal article on an experimental rehearsal at the Royal Albert Hall, 1948, two black and white photographs, notes on the Royal Albert Hall, 1958; two copies of an annotated typescript paper on planning concert halls, journal articles, including sections and elevations of the Assembly Hall, Swansea Civic Centre, from <i>The Builder</i> , 1933, reverberation time graphs for the, broadcasting room and auditorium of Coventry Hippodrome and for Glynebourne Opera House stage	<i>c</i> .1925-60

22 [contd.]	and box, 1939; plans, sectional drawings, typescript paper, black and white photograph relating to Malta Opera House, 1954; plans, sketches, correspondence, acoustics survey, newspaper cuttings, photograph relating to West Park Pavilion, St Helier, Jersey, 1959-60	
23	 Halls and auditoriums, acoustics: correspondence, including with Peter Parkin, 1929-64; newspaper cuttings and typescript extracts from newspapers, 1933-65; notebook and from the notebook of Hope Bagenal on Nikisch at rehearsals', typescript notes from <i>Technische</i> <i>Mitt</i>, manuscript notes on Italian academies; typescripts of 'Theatre and concert hall' and 'Reflection properties of discontinuous panels hung at two levels (model studies on the layout of sound reflecting panels as used in the Philharmonic Hall, New York)'; 'Notes on a visit to the Auer Sacrum in Salzburg'; typescript reverberation figures for Glynebourne; The Society for Theatre Research paper 'Mozart on the stage' by Sir Steuart Wilson; graphs of reverberation time at the Manchester Free Trade Hall, 1951, Guildford Cathedral, n.d. Sadlers Wells Theatre, 1959; sketch for a concert room with adjustable absorbents by Hope Bagenal; photographs, plan and section drawing of the Royal Festival Hall, section drawing of acoustic tiles and of reinforced rods in pillars; journal articles; Department of Scientific and Industrial Research Building Research Section Library Communication 1148 'Acoustics' by Charles Gamier, Feb 1963; Music programme notes and Leipzig Gewandhaus Orchestra British tour souvenir programme, 1950; typescript copy of 'Musick' monument or a remembrancer of the best practical musick' by Thomas Mace, 1676 	1929-65
24	Halls and auditoriums, acoustics, music and resonance: correspondence, 1937-60, including with Peter Parkin; notes on physics data and designing for music, Handel, early music in Manchester, Kathleen Ferrier, history of music, music and architecture at the Reformation; newspaper cuttings; black and white photograph of a painting by Marco Ricci `Rehearsal of an opera'; The Society for Theatre Research lecture report, 1964;	<i>c</i> .1937-60

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24 [contd.]	journal articles, including by Hope Bagenal and 'Assisted resonance' by Peter Parkin; Institution of Electrical Engineers 'The acoustical design of broadcasting studios' by H.L.Kirke, 1935; annotated draft section drawing relating to the acoustics of the Royal Festival Hall; Institute of Musical Instrument Technology lecture; 'Designing for musical tone in buildings' by Hope Bagenal, 1947; diary of attractions at the Guildhall, Portsmouth, 1960; Acoustical specification for Coventry Hippodrome broadcasting room; chart showing the compass of musical instruments; sketches and plan of an auditorium platform mapping the disposition of an orchestra in the space, sketch of the disposition of a brass band on an auditorium platform; notes and sketch relating to an acoustic question; sketches and draft plan for an orchestra playing in York Minster nave as part of a music festival; Department of Scientific and Industrial Research Building Research Station library communication number 236A 'On the acoustics of radio studios' by W.Furrer, 1948; British Standard <i>Musical Pitch</i>	
25	Halls and auditoriums, `analysed': carbon copy of a Department of Scientific and Industrial Research memorandum of a visit to Leeds Town Hall and covering letter and newspaper cutting relating to Leeds Town Hall concert, 1949; Department of Scientific and Industrial British Research Station Note no. D85 'Listening Studies at the Usher Hall, Edinburgh and St. Andrew's Hall, Glasgow' and 'Report on the Acoustics of Dean's Hall, Berkhamstead School; plans of: Croydon Town Hall and statistics, Bank of England lecture Hall, St. Andrew's Church, Luton, and Middlesex County Hall, Council Chambers; reverberation graphs for: Croydon Town Hall, Hatfield Old Palace, Bank of England lecture hall, Simon de Montfort Hall, Leicester, Newcastle-under-Lyme Municipal Hall, St Andrew's Church, Luton, St. Alban's Church, North Harrow; and Bridewell Hall, Pimlico; graph of theoretical reverberation characteristics for: Deans Hall, Berkhamstead School, Albert Hall; reverberation figures for: St. Andrew's Church, Luton, the Bank of England lecture hall, Croydon Town Hall council chamber and large and small police courts, St. Alban's Church, North Harrow, Old Palace, Hatfield, Newcastle- under-Lyme Municipal Hall and St Andrew's Church; newspaper cutting picture of The Royal Hall, Harrogate,	1928-9, 1941-9

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25 [contd.]	and accompanying correspondence; correspondence regarding Hope Bagenal's visits to the Royal Opera House, Aeolean Hall and Queen's Hall; table of absorbents for Aeolean Hall; chart showing details of absorbents for: Old Palace, Hatfield, St. Albans, North Harrow, St. Andrews, Luton, Bank of England Concert Hall, Newcastle-under-Lyme Municipal Hall, Croydon Council Hall council chamber and large and small police courts	
26	Halls and auditoriums, Bishopgate Institute Hall: plans and section drawings; correspondence; calculations; reverberation tables	1962-72
27	Halls and auditoriums, Madras University Hall: plans and section drawings; correspondence	1956-7
28	Halls and auditoriums, New York Philharmonic Hall: confidential memorandum; typescript 'The acoustics of Philharmonic Hall c.1962' by Maurice C.Rosenblatt; correspondence; 'Reflectivity of panel arrays in concert halls' by B.G.Watters, L.L.Beranek, F.R.Johnson and I.Dyer; news release 'Leo L.Beranek addresses Washington chapter of the Acoustical Society of America on "recent experiences in the acoustical design of large concert halls''', Apr 1923; article 'Reflectivity of panel arrays in concert halls' from <i>Sound</i> , 1963; cuttings from the <i>New</i> <i>York Times</i> , the <i>New Yorker</i> and the <i>Daily Telegraph</i> ; memorandum of 1 May 1963: 'Comparison of articles in New York Times with modifications now developed for incorporation into Philharmonic Hall during summer 1963	1962-3
29	 Halls and auditoriums, plans and section drawings of: (i) sketch plans and copies of correspondence relating to Old Palace, Hatfield, 1947; (ii) plans of Wolverhampton Great Hall and typescript reverberation table, which lists the description of the absorbent material, the area or number of square feet, coefficiency, absorbent OWU, adjustment and net A OWU; (iii) plans of Bristol Colston Hall, 1935-6, booklet, 1936, article; (iv) Queens Hall, Langham Palace, 1928; (v) Whitehall Banqueting Hall, proposed concert seating; booklet History of the Banqueting House by Captian E.Altham (Royal United Service Museum, London) and journal article; (vi) Middlesex Guildhall, Westminster; (vii) Glasgow Exhibition Hall; (viii) Aeolian Hall, London; 	c.1928-63

29	(ix) Free Trade Hall, Manchester;	
[contd.]	(x) Holywell Music Room, Oxford, together with two black	
	and white photographs interior, correspondence and	
	newspaper cuttings, 1956-60;	
	(xi) Huddersfield Town Hall and Municipal Offices, 1952;	
	(xii) Margate Pavilion, together with correspondence,	
	1944;	
	(xiii) Liverpool Philharmonic Hall, 1936;	
	(xiv) Philadelphia Academy of Music;	
	(xv) Assembly Hall, Watford, 1937;	
	(xvi) plans of an unidentified hall	
30	Halls and auditoriums, plans and section drawings of:	c.1923-73
	(i) Albert Hall platform set for the promenade concerts;	011/20 70
	(i) sketch 3 of Honhong Hall acoustics;	
	(iii) Guildford Civic Hall platform arrangements;	
	(iv) London County Council Concert Hall platform;	
	(v) Salisbury Civic Auditorium, Rhodesia;	
	(v) Bromley New Assembly Hall;	
	(vii) South Bank Concert Hall;	
	(viii) Bryanston stage and pit;	
	(ix) cross section of the Grand Hall, Olympia, 1946;	
	(x) Harrogate Royal Hall, 1948-9;	
	(xi) Berlin Singakademie Great Hall;	
	(xii) Royal Opera House, Covent Garden, 1929;	
	(xiii) Assembly hall at Megalopolis;	
	(xiv) Wexford Festival Theatre;	
	(xv) Theatre Royal, Wexford;	
	(xvi) plans, elevation and correspondence relating to St	
	Georges Art Centre, Great Yarmouth, 1972-3;	
	(xvii) White Rock Pavilion, Hastings, 1923	
31	Halls and auditoriums, plans and section drawings of:	1959-64, 1971,
	(i) Delhi Chamber;	n.d.
	(ii) Comparison of the French Chamber of Deputies, the	
	House of Commons, the Dail Chamber, the Legislative	
	Chamber, Kaduna, North Nigeria and the US House of	
	Representatives;	
	(iii) New Festspielhaus, Salzburg;	
	(iv) Sydney Opera House;	
	(v) Birmingham Theatre;	
	(vi) Bonn Beethovenhallel;	
	(vii) Berlin Beethoven Saal;	
	(viii) Boston Symphony Music Hall;	
	(ix) Shell Cinema Theatre;	
	(x) Assembly Hall, Worthing;	
	(xi) Fairfield Halls, Croydon, 1959-60, together with	
	correspondence, 1963-4 and 1971, newspaper cutting and	
	plate II for a publication showing the long section of the	

31 [<i>contd</i> .]	main Fairfield Hall; (xii) blueprint of longitudinal section for Kleinhans Hall, Buffalo, USA	
32	Halls and auditoriums, reverberation: manuscript notes and calculations, some with sketches; manuscript and typescript reverberation and absorption tables which lists the description of the absorbent material, the area or number of square feet, co-efficiency, absorbent OWU, adjustment and net A OWU, including for Queen's Hall, Berlin Singakademie, Berlin Beethoven Hall and Berlin Philharmonic, Wagner Opera House, Beyreuth, Leipzig Thmoaskirche, Leipzig Old Gewandhause Concert Hal and Hall of the Conservatorium, Leipzig, Balls Park, Hertford, Holywell Hall, Oxford, David Memorial Hall, Uppingham School, New Colston Hall, Bristol, Free Trade Hall, Manchester, Royal Opera House, Covent Garden, Aeolian Hall, Bonn Beethoven Hall, London School of Hygiene and Tropical Medicine and White Rock Pavilion, Hastings; graphs: (i) absorption units against volume in cubic feet, (ii) volume against number of seats for a number of halls, (iii) reverberation in seconds against volume when the hall is empty, one third full and full for eleven halls, (iv) reverberation in seconds with a full audience against volume for choral, orchestral and music and speech for many halls plans and section drawings; illustrations of interiors of auditoriums; typescript of 'The Leipzig tradition in concert hall design' by Hope Bagenal; journal articles: 'Designing for musical tone' by Hope Bagenal, 1925, and 'Quality of reverberation', 1967; cutting from <i>The Architect and Building News</i> of sections and plan of the Legislative Chamber, Delhi, 1929	1929-67
33	Halls and auditoriums, Royal Festival Hall, London: correspondence with the Department of Scientific and Industrial Research and with W.Allen, Chief Architect, London County Council and copies of correspondence between Peter Parkin, Department of Scientific and Industrial Research and the Architect to the Council; Department of Scientific and Industrial Research Building Research Station reports: Note D 93 'Sound insulation of South Bank Concert Hall (second report)' by P.H.Parkin, Nov 1949, 'Orchestral arrangements for good acoustical conditions', Appendix II 'Discussions on concert hall acoustics', draft paper 'Note on acoustics of the LCC Concert Hall', and Note E– 'Concert platform	1948-52, 1969

33 [contd.]	arrangements for large orchestras and choirs' by Hugh Creighton and W.A.Allen, Jan 1951; notes of meetings concerning the acoustics of the Concert Hall, the public speech equipment and the concert organ; journal articles: 'Acoustics twenty years after the Festival Hall' by W.Allen, in <i>RIBA Journal</i> , Feb 1969 and one from <i>The Architect and Building News</i> , Jun 1951; preliminary draft schedule of accommodation for the Concert Hall, 11 Sep 1948	
34	Halls and auditoriums, Royal Festival Hall, London: correspondence; section drawings, 1949; calculations, graphs, reverberation time and absorption level tables for the Hall; black and white photograph of an auditorium with an orchestra and of am axonometric view of the Festival Hall; graph plotting reverberation times of other concert halls; draft Department of Scientific and Industrial Research Building Research Station Note E– `The acoustics of the Royal Festival Hall, London' by P.H.Parkin, W.A.Allen, H.J.Purkis and W.E.Scholes, Oct 1952 and Note D 178 `A review of the acoustics of the Royal Festival Hall, Mar 1952' by P.H.Parkin and W.Allen; joint report by the Architect to the Council and the General Manager, Royal Festival Hall to the London County Council general purposes (special development and arts) sub-committee; typescript paper `Royal Festival Hall: acoustic design'; booklet <i>The organ to be built and installed in the new</i> <i>concert hall South Bank for the London County Council</i>	1949-62
35	Halls and auditoriums, Tehran House of Worship: correspondence; plans and section drawings; 'Second report on acoustic problems and treatments'	1973-4
36	Halls and auditoriums, Wexford: correspondence, plans, newspaper cuttings, calculations and preliminary reports relating to acoustic surveys of Wexford Festival Theatre and Wexford Opera House	1972
37	Institute of Acoustics, including papers of Dr R.W.B.Stephens: circulars, notices of conferences, accounts; correspondence; minutes of the education committee, 1983; syllabus and administrative details for the diploma in acoustics and noise control; examination papers and solutions for the diploma, 1985; <i>Proceedings</i> of the Institute of Acoustics; newsletter, Apr 1987; programme and abstracts of papers for the spring	1974-87

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37 [contd.]	conference, 1976; Proceedings of the Symposium and exhibition on European noise legislation, 1977	
38	Loudspeakers, sound absorbents: typescript papers `A note on planning for loudspeakers', `Loudspeakers' and `Loudspeakers in churches: loudspeakers and pulpit delivery'; photographs of the STC sound system in the National Hall, Lagos, and of a moving coil microphone; correspondence and notes relating to the performance of loudspeakers; Pamphlet on the Care of Churches II `Loudspeakers and acoustic problems' by Hope Bagenal; Building Research Station digest 82 `Improving room acoustics'; journal articles; product literature; correspondence relating to Hill End Hospital Hall, St Albans; journal article `Design and performance of a new reverberation room at Armour Research Foundation, Chicago, Illinois' by D.R.McAuliffe, 1957; cross section drawing from Cranwell RAF College	c.1943-67
39	Noise: correspondence; Ministry of Town and Country Planning circulars; text of a talk by Hope Bagenal on noise problems with relation to town and country planning to the Town and Country Planning Association, Apr 1945; typescript notes on defining and measuring noise nuisance, extracts of London County Council committee minutes and from law reports concerning noise nuisance; copy of regulations issued by the Prefect of Police to the municipal police, Paris, Aug 1935; Building Research Station Digest number 36 on sound absorbent treatments, 1954 and 1962; model bye-law on the use of wireless loudspeakers, gramophones, etc.; plans for a new experimental psychology bird room for the University of Cambridge, 1961; journal articles; Department of Scientific and Industrial Research Building Research Bulletin 14 <i>The reduction of noise in buildings:</i> <i>recommendations to architects</i> by Hope Bagenal and P.W.Barnett (HMSO, 1933) and Building Research Station Current Papers <i>The</i> <i>transmission loss of multi-layer structures</i> by B.H.S.Sharp and J.W.Beauchamp and <i>The traffic noise index: a method</i> <i>of controlling noise nuisance</i> by F.J.Langdon and W.E.Scholes; <i>The journal of the Acoustical Society of America</i> , 1966; section drawings of sound resisting partition walls; article from <i>The Builder</i> on sound transmission tests on wall panels, 1930	1930-69

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Noise, aircraft and airport: programme for a joint symposium on aeronautical acoustics, in particular jet noise, together with a paper on engine noise by F.B.Greatrex from the symposium; manuscript and typescript notes on `The airport and its neighbour' report; copies of the Department of Scientific and Industrial Research Building Research Station Note number C430 'Measurements of the noise from a "Hunter" aircraft in flight - part II', Jul 1956, and Note number C447 'Measurements of the noise from a "Hunter" aircraft in flight - part III', Sep 1956, and Note number D194 'Measurements of noise from Bristol 171 helicopter', Aug 1952: manuscript notes on a paper on aircraft noise read to the Society of Aeronautic Engineers, Apr 1954; Building Research Station Current Papers Insulation against aircraft noise by W.E.Scholes and P.H.:Parkin, Mar 1968; summary of a symposium discussion on aircraft noise as a public relations problem from the International Air Transport Association Public Relations Conference, Feb 1955: covering letter and notes of meetings of the drafting committee of the British Standards Institution on sound insulation and precautions against noise, 1956; manuscript notes of a visit to London Airport, Jun 1956; The requirements of a civil airport as typified by London Airport by Bernard Ernest Willett, Jun 1955; London Airport: report of layout panel (HMSO, 1946); journal articles, including one on De Havilland Aircraft Company new turbojet testing facility at Hatfield, Sep 1955; newspaper cuttings; correspondence: copy of a graph measuring weight of aircraft against sound pressure level Parkin, Peter: British Broadcasting Corporation Engineering Division Research Department 'Acoustics of the Philharmonic Hall Liverpool and St Andrew's Hall, Glasgow; Department of Scientific and Industrial Research Building Research Station note D97 'Some objective acoustical measurements in British concert halls' by Parkin, Jan 1950, Note C455 'Report of a visit to West Germany, May 1956' and Note D85 'Listening studies at the Usher Hall, Edinburgh, and St Andrew's Hall, Glasgow, Aug 1949; carbon copy of 'Memo on visits to La Scala Theatre, Milan, May 5th 1956'; article `The reverberation times of

ten British concert halls' by P.H.Parkin, W.E.Scholes and

A.G.Derbyshire' in Acustica, 1952

1950-6

1936-56, 1968

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42	Parliament, Houses of: two blue and two red folders containing annotated typescripts of `The House of Commons: a study of building forms and parliamentary forms' by Hope Bagenal, with illustrations	<i>c</i> .1964
43	 Parliament, Houses of: (i) chapter 26 of the blue folder typescript of `The House of Commons: a study of building forms and parliamentary forms', with plans; (ii) two typescript copies of an article `A study of acoustics and seating arrangements in modern parliament houses and conference halls' by Hope Bagenal; (iii) typescript of an extract from Punch, 1862, transcript of evidence from the report from the committees on the houses of Parliament, 1867-8, 28 Jun 1923, copies of plans of the House of Commons, correspondence, 1968; (iv) <i>Report from the Select Committee on House of Commons (arrangements)</i>, together with coloured plans, 19 Jul 1867; (v) <i>Report from the Select Committee on House of Commons (arrangements)</i>, together with coloured plans, 12 May 1868 	1867-8, 1923, 1968
44	Theatres, opera houses: typescript and manuscript notes including a manuscript translation of the section on `acoustics' in E.Moritz's <i>Ancient Theatre</i> and on the masque house; `The acoustical design of La Grande Salle, Place des Arts, Montreal, Quebec' by Russell Johnson; correspondence; typescript papers `Acoustics of the high stage', `Vitruvius on acoustics' and `The acoustics of the Italian Opera House and the Wagner Theatre Compared'; journal articles, including `The acoustics of the Italian Opera House and the Wagner Theatre Compared' and `The teaching of acoustics to students of architecture and building' by Hope Bagenal; <i>Theatre notebook</i> , Autumn 1959; <i>Theatres and audtioriums</i> by Harold Burris-Meyer and Edward C.Cole (New York, 1949); sketch plans of theatres; exhibition leaflet on The making of the National Theatre; typescript papers `A national ballet and opera' by David Webster and `Theatre fires' by G.V.Blackstone and `Theatre acoustics: some results and warnings' by Hope Bagenal; programmes; postcards	1930-65
45	Theatres: carbon of 'Studies in the history of the auditorium: I the Greek theatre' by Hope Bagenal	n.d.