Catalogue of the papers and correspondence of

David Joseph Bohm FRS

(1917 - 1992)

by Timothy E. Powell and Peter Harper, NCUACS catalogue no. 66/4/97

Title: Catalogue of the papers and correspondence of David Joseph Bohm FRS (1917-1992), physicist

Compiled by: Timothy E. Powell and Peter Harper

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GENERAL INTRODUCTION

PROVENANCE

The papers were received in March 1995 from Professor B.J. Hiley, Birkbeck College London.

OUTLINE OF THE CAREER OF DAVID JOSEPH BOHM

Bohm was born in Wilkes-Barre, Pennsylvania, on 20 December 1917. He studied at Pennsylvania State University, graduating in 1939, then moved to the California Institute of Technology for post-graduate work, completing his Ph.D. on neutron-proton scattering in 1943 at the University of California at Berkeley under J.R. Oppenheimer. In 1947, after working on the Manhattan Project at the Berkeley Radiation Laboratory, he was appointed Assistant Professor at Princeton University. His first book *Quantum Theory* was published in 1951 and was well received by Einstein and Pauli among others.

While working at the Berkeley Radiation Laboratory Bohm had been active in the Federation of Architects, Engineers, Chemists and Technicians (FAECT) trade union. The activities of FAECT at the Radiation Laboratory had occasioned some concern during the war and in 1949, as Cold War tensions increased, the House Committee on Un-American Activities began to investigate staff who had been working there. As a member of FAECT and as a former member of the Communist Party (he joined in 1942 but left a year later) Bohm came under suspicion. He was called upon to testify before the Committee on 25 May and 10 June 1949 but pleaded the Fifth Amendment refusing to give evidence against colleagues.

In September 1949 the Soviet Union tested its first atomic device and it was thought that atomic bomb secrets must have been passed to the USSR. Pressure to uncover Soviet spies was intensified. It was alleged that Bohm and other members of the FAECT were members of a Communist cell working at Berkeley during the war. In December 1950 Bohm was charged with Contempt of Congress for refusing to answer questions about colleagues before the Committee and arrested. He was acquitted in May 1951. However, Princeton University had suspended Bohm in December 1950, barring him from the University, and after his acquittal refused to renew his contract, despite support from Einstein and others, thus effectively dismissing him.

Bohm left for Brazil in 1951 where he was appointed Professor of Physics at the University of São Paulo. Having surrendered his US passport Bohm found himself unable to leave Brazil and so took Brazilian citizenship. Bohm left Brazil in 1955, moving to Israel where he spent two years at the Technion at Haifa. Here he met his wife Saral, who was to become an important figure in the development of his ideas. In 1957 Bohm left Israel for the UK. He held a research fellowship at Bristol University until 1961, when he was made Professor of Theoretical Physics at Birkbeck College London. After retirement in 1987 he continued research and he was elected to the Fellowship of the Royal Society in 1990. Bohm died in 1992.

Bohm made a number of significant contributions to physics, particularly in the area of quantum mechanics. As a post-graduate at Berkeley he discovered that in a high temperature gas (plasma), electrons that have been stripped from atoms do not behave as single particles but as part of an organised whole, making collective movements, now known as 'Bohm-diffusion'. *Quantum Theory* was followed by his second physics book *Causality and Chance in Modern Physics*, published in 1957. Both became standard textbooks, being reprinted in later years. In 1959, with his student Yakir Aharonov, he discovered the 'Aharonov-Bohm effect', the first demonstration of how an isolated line of magnetic force could affect electrons around it without actually contacting it, so showing how a vacuum could produce striking physical effects. His third book, *The Special Theory of Relativity*, was published in 1965.

Bohm developed an unorthodox approach to quantum theory, described by his *Nature* obituarist as follows:

'Dissatisfied with the orthodox Copenhagen interpretation, which he had beautifully expounded in his text book *Quantum Theory* in 1951, he published a preliminary investigation of what came to be known as the causal interpretation in 1952. This was a hidden-variables approach, in which the exact location of the particle played the role of the hidden variable and the standard quantum-mechanical predictions were deduced by including an extra term, the "quantum potential" in the classical Hamilton-Jacobi equation. Effectively, the theory involved waves *and* particles instead of the orthodox waves *or* particles'.

Bohm's scientific and philosophical views were inseparable. His holistic world-view posited an implicate order of inter-connectedness. He expressed his approach to philosophy and physics in his 1980 book *Wholeness and the Implicate Order*. The central theme pursued is that of the 'enfolded' or 'implicate order', in which forms emerge as distinct entities from the universe, but are reabsorbed into it again later in a never-ending process. The most complete statement of Bohm's approach is described in *Science, Order and Creativity*, written with F.D. Peat and published in 1987.

In 1959 Bohm came across a book by the Indian philosopher J. Krishnamurti. He was struck with how his own scientific views on quantum mechanics and modern physics meshed with the philosophical perspective on consciousness advanced by Krishnamurti. The two first met in 1961

and over the following years had many conversations or dialogues, being published as *Truth and Actuality* (1980), *The Ending of Time* (1985) and *The Future of Humanity* (1986).

In his later years, partly through his connection with Krishnamurti, Bohm developed the technique of Dialogue, in which a group of individuals engaged in constructive verbal interaction with each other. Out of the Dialogue Bohm believed a more powerful group creativity would emerge, which would transcend the divisions between individuals in the group. He believed that if carried out on a sufficiently wide scale these group Dialogues could help overcome fragmentation in society. Bohm led a number of Dialogues in the 1980s and early 1990s, the most well-known being those held at Ojai Grove School in California. From this a number of 'Bohmian Dialogue' groups appeared utilising Bohm's development of the Dialogue.

For further information on David Bohm see *Infinite Potential: The Life and Times of David Bohm* by F.D. Peat (Addison-Wesley, 1996).

DESCRIPTION OF THE COLLECTION

The material is presented in the order given in the list of contents. It spans 1933-1996.

Section A, Biographical, contains considerable material relating to the impact of Bohm's ideas on others. There are obituaries of and tributes to Bohm, transcripts and published versions of interviews, discussions and Dialogues with Bohm, including those at Ojai, California. In his later life Bohm's ideas attracted much interest and there are significant number of articles and papers inspired by him. Material directly recording his life and career is comparatively slight but there are papers relating to Bohm's difficulties with the House Committee on Un-American Activities 1949-1951. There is a list of Bohm's publications at A.130.

Section B, Drafts, publications and lectures, includes drafts by Bohm of mostly unpublished papers and lectures. There are some drafts on quantum theory although the bulk are of a philosophical nature. The section also includes copies of a few of his published works and book reviews by others of Bohm's work. In addition there are drafts by F.D. Peat drawing on Bohm's work which were found with the papers.

Section C, Correspondence, is divided into two. There is a sequence of general correspondence, including photocopied correspondence with Einstein *ca*.1950-1954. The letters include discussion of quantum theory as well as Einstein's advice on Bohm's career. Other significant correspondents are R. Karnette, H.M. Loewy and M. Phillips. The section also includes a set of photocopies of the

voluminous correspondence on a wide range of philosophical and scientific subjects with the American artist and theorist Charles J. Biederman, spanning 1960-1969.

There is also an index of correspondents.

ACKNOWLEDGEMENTS

We are very grateful to Professor Hiley for making the papers available. We would also like to thank Dr Olival Freire Jr for advice and making available photocopies of material held in Brazil.

Timothy E. Powell Peter Harper BATH 1997

SECTION A

BIOGRAPHICAL	A.1-A.130
A.1-A.22	OBITUARIES AND TRIBUTES
A.23-A.58	INTERVIEWS, DISCUSSIONS AND DIALOGUES
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Biographical

OBITUARIES AND TRIBUTES

A.1-A.4	Obituaries
A.5-A.12	'Obituary letters'
A.13-A.19	Tributes and memorials
A.20-A.22	Biography of Bohm

Obituaries

A.1

B. J. Hiley, Independent, 30 October 1992, and David Stevens, Independent, 11 November 1992.

Daily Telegraph, 3 November 1992.

J.C. Polkinghorne and Mary Cadogan, Guardian, 3 November 1992.

M.I.G. Redhead, Nature, 12 November 1992.

Jewish Chronicle, 13 November 1992.

A.2

Eric Page, New York Times, 29 October 1992.

Times Leader (Wilkes-Barre), [?29 October 1992].

Boston Globe, 30 October 1992.

San Jose Mercury News, 29 October 1992

Paavo Pylkkänen, Helsingin Sanomat, 2 November 1992. (In Finnish)

A.L. da Rocha Barros, 'Boletim Informativo', Instituto de Fisica, São Paulo, Brazil, 12 November 1992. (In Portuguese)

Olival Freire Jr, A Classe Operária (São Paulo, Brazil), 23 November 1992. (In Portuguese)

A.3	Birkbeck Bulletin, December 1992.
	'Dialogue Quarterly Newsletter,' December 1992.
	David Pines, Physics World, March 1993.
	The View, Rigpa International Newsletter, Spring 1993.
	S. Goldstein, Physics Today, August 1994.
A.4	Miscellaneous and unidentified.
'Obituary Letters'	
	Contents of two bulky folders so inscribed: letters of condolence and reminiscence sent to Saral Bohm on her husband's death.
	The letters were numbered 1-178 (numbers 151-159 not used), the first folder containing letters 1-80 and the second 81-150 and 160-178, with a list of correspondents at the front of each folder.
A.5	Lists of correspondents.
A.6-A.12	Letters of condolence, retained in original order. Unindexed. 7 folders.
Tributes and memoria	als
A.13	Meeting of Plasma Physics Division, American Physical Society, Seattle, 18 November 1992.

Notes on the career of David Bohm' by W. Gekelman, 3pp typescript, with covering letter to Saral Bohm.

'In memoriam, David Bohm', by T.H. Stix, 2pp typescript, with covering letter to Saral Bohm.

A.14	'Bohm Memorial, December 3, 1992' by S. Schweher, 3pp typescript with manuscript annotation.
A.15	'Professor David Bohm - A Tribute' by Donald Factor, Scientific and Medical Network Newsletter no. 50, December 1992.
A.16	'Lifework of David Bohm. River of Truth' by William Keepin, ReVision 16 (Summer 1993).
A.17	Note on David Bohm memorial meeting at Birkbeck College London, 5-6 May 1993 by Basil Hiley, <i>Birkbeck Bulletin</i> , July 1993.
	'David Bohm In Memoriam 1918-1992', New Dimensions (Winter 1993).
A.18	'A monumental embrace of totality. In living memory of David Bohm: 1917- 1992', nd.
A.19	Appeal leaflet for David Bohm Scholarship, Brockwood Park Krishnamurti Educational Centre, Hampshire.
	Appeal leaflet for donations in memory of Bohm to Oak Grove School library, Ojai, California.
	Woodland Trust Certificate for trees planted in memory of Bohm.
	Poem to members of 'Bohm Committee'. Covering letter refers to DQN [Dialogue Quarterly Newsletter].
Biography of Bohm	

After his death David Peat, a colleague of Bohm's in Canada, began work on a biography. He wrote to colleagues of Bohm and advertised in *Physics Today* for recollections of Bohm.

A.20-A.22	'Letters to D. Peat (concerning Bohm's work etc) in connection with writing Bohm's biography'. Contents of folder so inscribed divided into three for ease of reference.
A.20	Manuscript list of biographical material seen by Peat.
A.21	Correspondence 1993.
A.22	Correspondence 1994.
INTERVIEWS, DISCUS	SIONS AND DIALOGUES
A.23	'David Bohm and psychologists. The Nature of the Mind - 5 1982'.
	19pp transcript of discussion between David Bohm, Jon Hidley and Tom Krause; covering letter 22 February 1992.
A.24, A.25	Discussion between Bohm and Krishnamurti, 11 June 1983.
A.24	'Chapter One', 36pp typescript.
A.25	'Chapter 2', 32pp typescript.
A.26-A.29	Transcripts of panel discussions held at Forum conference, September 1983.
A.26	'Panel Discussion 10.9.83: David Bohm, Rupert Sheldrake, Fritjof, Francisco Varela', 31pp typescript.
A.27	'Panel to the initial statement of the Dalai Lama', 15pp typescript.

A.28	'Panel 3. Perception of the World', 23pp typescript.
A.29	'Concluding Panel', 20pp typescript.
A.30	'Interview with David Bohm. Birkbeck College, 25th June 1986. Participants: David Bohm, Mark Edwards, Alan Hunter'.
	28pp typescript.
A.31, A.32	Interview with David Bohm by A. C. Wagner, July 1987.
	43pp typescript. 2 folders.
A.33-A.35	Conversations with David Moody at Ojai, California, November and December 1987.
	See also Ojai Dialogues (A.59-A.71)
A.33	16 November, 40pp typescript.
A.34	?1 December, 35pp typescript.
A.35	?8 December. 17pp typescript.
A.36	Discussion with Sogyal Rinpoche, Max Velmans, John Crook and John Pickering, The Mind Body Group newsletter no. 2 (July 1989).
	Interview with John Briggs, New Age Journal (September/October 1989),
	44-49, 110-115.
A.37	Interview with A. L. da Rocha Barros, 'O aparente e o oculto: entrevista com David Bohm', <i>Estudos Avancados</i> 4 (8) (1990), 188-198. (In Portuguese)

A.38, A.39	'Physics and the Laws of Nature', discussion with Saral Bohm and David Moody, 'circa 1989 or 1990'.
A.38	'Verbatim transcription', 39pp typescript.
A.39	Bound 'Edited transcription'.
A.40	Plastic spiral bound transcript of Lee Nichol's 'Conversations with David Bohm' on 'Self, Society and Proprioception', Ojai, California, November 1989, and 'Imagination, Time and Being', Vancouver, Canada, April 1992.
A.41-A.45	'Art meets Science and Spirituality in a changing economy', Amsterdam 1990.
	This event was an exhibition and a symposium bringing together artists, scientists, religious leaders and economists. To precede it a 'TV/Video Document of our Time' was filmed, featuring some of the main participants, including Bohm, for display at the event. Bohm was interviewed for this on 1 September 1989.
	At the main event in 1990 Bohm took part in a panel discussion alongside the artist Robert Rauschenberg, the Dalai Lama and the Soviet economist Stanislav Menshikov on 10 September.
A.41	Brief correspondence <i>re</i> arrangements 1989; photographs of Bohm taken during filming for the interview; brochure, with brief biographical details of participants
A.42	Transcript of interview, 24pp typescript.
A.43	Plastic spiral bound copy of 'Treatment. Television/Video Document of our Time'.
	Bohm is featured as the first interviewee.
A.44	Plastic spiral bound copy of 'Foto report on the shooting for Television/Video Document of our Time'.

A.45	Programme of main event.
A.46	"Beyond Limits". A Conversation with Professor David Bohm'.
	Published transcript of conversation between W.M. Angelos and Bohm, recorded by Dutch Television in September 1990.
A.47	'Dialogues between Indigenous and Western Scientists, May 1992, Kalamazoo, Michigan', Fetzer Institute occasional paper.
	The dialogue took place when Bohm was visiting the Institute as a Fetzer Scholar.
	Bound draft of transcript sent to Saral Bohm, with covering letter.
A.48	'Notes of last conversations with David Bohm October 28th 1992'.
	2pp typescript, author unidentified.
A.49-A.57	Contents of folder: typescript draft of long interview with Bohm probably for publication in book form.
	The material is divided into two parts - 'Part I Thought and the Human Condition', comprising chapters 1 and 2 and 'Part 2 A Dialogue on Thought', with chapters 3-6.
A.49, A.50	'Chapter 1 The World Crisis and Thought'. 2 folders.
A.51	'Chapter 2 The Technological Ascent and the Psychological Descent of Man'.
A.52, A.53	'Chapter 3 On the Nature of Thought'. 2 folders.
A.54	'Chapter 4 Illusion and Reality'.
A.55	'Chapter 5 Dialogue and Collective Thought'.

A.56	'Chapter 6 On Meaning'.
A.57	Miscellaneous pages.
A.58	'David Bohm on Abuse. Dialogue between David and Sara Bohm, and Zhixang and Zhendi Wang', nd.
	18pp typescript.
OJAI DIALOGUES	
	Bohm led Dialogues at seminars at the Oak Grove School, Ojai, California. Edited transcripts of the dialogues were published.
A.59	Leaflet <i>re</i> 1987 Ojai Dialogues.
A.55	Leanet /e 1967 Ojai Dialogues.
A.60	Plastic spiral bound edited transcript of 1987 Ojai Dialogues (4-6 December).
A.61	'Transcript 1987 - Oak Grove School ?with teachers etc'. Contents of envelope so inscribed: 43pp typescript draft transcript of Ojai Dialogue from 5 December 1987.
A.62	Plastic spiral bound edited transcript of 1988 Ojai Dialogues (11-13 November).
A.63-A.68	' [] Transcripts of some dialogues /Ojai etc/ [] Meeting with students Oak Grove School Nov. 14, 1989'. Contents of folder so inscribed divided into six for ease of reference.
A.63	'An account of eight discussions between Krishnamurti and a small group of people - August 1964 (made by D. Bohm)', 19pp typescript; booklet of <i>Writings by David Bohm</i> (Krishnamurti Foundation Trust, 1970).

A.64	'On interpretation' by Bohm, 2pp typescript <i>ca</i> .1976; typescript note on the finite 'on the occasion of the memorial for David's friend Dr M. Sagenkahn', November 1987.
A.65	Transcript of session with Bohm at Organisational Learning Seminar, 5 October 1989, 92pp typescript.
A.66	Booklet of 'David Bohm Meeting with Students, Oak Grove School, Ojai, California, November 14, 1989'.
A.67	Draft of Ojai 'Dialogue I' , 1 December 1989.
A.68	Draft of Ojai 'Dialogue II', 2 December 1989.
A.69	David Bohm On Dialogue (Ojai, 1990), published transcript of meeting at Ojai on 6 November 1989.
A.70	Plastic spiral bound edited transcript of 1989 Ojai Dialogues (1-3 December).
A.71	'Dialogue Quarterly Newsletter', vol. 1 (June 1992).
	As a result of Bohm's Dialogues, the Bohm Committee of Ojai which had organised the seminars established a newsletter in 1992 to keep participants in touch with each other and developments in the field.

ARTICLES AND PAPERS ABOUT BOHM'S WORK

A.72 'Matter and metaphor', section of Ph.D. thesis by John Brigg dealing with Bohm's work. Includes interview with Bohm.

Typescript paginated 226-261 annotated 'First Draft, incomplete, 1981'.

A.73	'David Bohm's Wholeness and the Implicate Order an interpretative essay' by S. M. Rosen, Man-Environment Systems 12 (January 1982).
A.74	'David Bohm' by R. Temple, New Scientist, 11 November 1982.
A.75	'David Bohm's Suggestive Metaphors and Constructs: a psychological reading' by R. van Eckartsberg, summer 1983.
	11pp typescript.
A.76	Plastic spiral bound copy of 'David Bohm. The Implicate Order: Physics ↔ Theology. Conference Papers presented 22-23 April 1983. The Graduate Theological Union, Berkeley, California'.
	Heavily annotated by Bohm.
A.76A	'David Bohm, Post-Modernism, and the Divine' by T. Peters, 'Revised for publication January 18, 1984'.
	The original paper was presented at the 'David Bohm' conference (A.76 above).
	41pp typescript.
A.77	'The Physics of Bohm and its relevance to Theology' by R.J. Russell, March 1984.
	19pp typescript.
A.78, A.79	'A Dialogic Faith', M.A. thesis by R.F. Lehmann, 1 December 1986.
	50pp typescript. 2 folders.
A.80	'A visit with David [Hockney] and Stanley Hollywood Hills 1987' by L. Weschler.
	Hockney refers to reading Bohm's <i>Wholenesss and the Implicate Order</i> and the influence it had on him. See also A.106.

A.81	'The Science of Wholeness: David Bohm's Natural Philosophy' by M. Toms, New Dimensions Radio Network News 15 (3), May-June 1988.
A.82	6pp typescript outline for article on 'Dialogue' by Diana Durham, sent to Bohm for comment, 23 November 1988.
A.83	'David Bohms virkelighed' by J. Bang and B. Lautrup, <i>ca</i> .1988. 15pp typescript proof. (In Danish)
	Newspaper cuttings from Bohm's visit to Denmark, May 1989, covering Bohm's life and thought. (In Danish)
A.84	'The nature of physical reality', New Paradigms Newsletter 7 (June 1989).
A.85	Bound volume 'About Chromatics. To David Bohm', by F. Schandorr, 1989 (In English, Danish and German)
A.86	Plastic spiral bound copy of ' "Implicate Order" and the Good Life: Applying David Bohm's Ontology in the Human World' by Ph.D. thesis by Ib Ravn, 1989.
A.87, A.88	'A Passion for Clarity. The Life and Work of David Bohm' by W. M. Angelos.
A.87	15pp typescript 'Corrected draft June 16, 1990'. With covering letter.
A.88	Plastic spiral bound 'Overview draft June 25, 1990'.
A.89	'Fra splittelse til helhet' by H.B. Tschudi (from Norwegian journal or newspaper), Oslo, 29 June 1990.
	Copy of article (in Norwegian); 3pp typescript English language version titled 'From Fragmentation to Wholeness'.

A.90	' <i>To the Lighthouse</i> and Physics: the corresponding worlds of Virginia Woolf and David Bohm', author unidentified, November 1990.
	29pp typescript.
A.91	Bound copy of 'David Bohm and Dialogue' by Heather Parrish, December 1991.
A.92	'Transforming the culture through dialogue', Utne Reader, March/April 1991.
	'Quantum Philosophy' by J. Horgan, Scientific American, July 1992.
	Includes references to Bohm's work on quantum theory.
A.93	'Last words of a quantum heretic', New Scientist, 27 February 1993.
A.94	'Sur les "Variables Cachées" de la Mécanique Quantique - Albert Einstein, David Bohm et Louis de Broglie' by M. Paty, <i>La Pensée</i> 292 (1993). (In French)
A.95	'Bohm's Alternative to Quantum Mechanics' by D.Z. Albert, Scientific American, May 1994.
A.96	'David Bohm: A Life of Dialogue between Science and Spirit' by W. Keepin, <i>Noetic Sciences Review</i> , Summer 1994.
A.97	'David Bohm, sua estada no Brasil e a Teoria Quântica' by O. Freire Jr, M. Paty and A.L. da Rocha Barros, <i>Estudos Avancados</i> 8 (20) (1994), 53-82 (In Portuguese)
A.98	'Bohm, Einstein e a Ciência no Brasil' by O. Freire Jr, in eds. I.C. Moreira and A.A. Passos Videira, <i>Einstein e o Brasil</i> (Rio de Janeiro, 1995), 261-271. (In Portuguese)
	The surge of the spirit' by LD. Person, New Scientist 16 Newspher 1006
	'The curse of the spirit' by J.D. Barrow, <i>New Scientist</i> 16 November 1996, 48-49.

A.99	References to Bohm in transcripts of interviews conducted by the American Institute of Physics' Center for History of Physics: L.H. Aller (1979), L. de Broglie (1963), E.E. Salpeter (1978), E.P. Wigner (1981).
A.100-A.105	'Notes on Bohm's work /by whom??/ Probably: Sean M. Kelly'. Contents of folder so inscribed divided into six for ease of reference: miscellaneous typescript drafts on aspects of Bohm's work. Nd.
A.100	'Beyond Materialism and Idealism: reflections on the work of David Bohm and Edgar Morin' by S.M. Kelly, 20pp.
A.101	'Meaning. Post-Structuralism. Deconstruction', 14pp
	'Quantum measurement. Superselection and Quantum Potential', 4pp, annotated 'Dave: This is a very brief summary of work I did several years ago []'
4 102	(Devid Debasis involved ender and the existing large fields at the invited of
A.102	'David Bohm's implied order and the principles of orthophysics', 8pp.
	'Bohm's notion of order', 2pp.
	'Order', 4pp.
	'The role and significance of order', 2pp.
A.103	'Order in Art and Science', 2pp.
A.103	"High Channo Bellevision Laws" (1823). "Elevision and Change Chan
	'Structuralism and order. Metaphor and science', 3pp.
	'Metaphor and movement', 2pp.
	'Metaphor and language', 2pp.
	'Is there a distinct boundary between Formal and Informal languages?', 3pp.
A.104	'Categories and deception', 3pp.
	'Bohm on perception communication', 2pp.
	'Perception-communication', 3pp.

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'Subtle changes of meaning', 1p.

'Reductionism and dualism', 1p.

A.105

'Science and history', 2pp.

'Orders of space and time', 2pp.

'Evolution', 2pp.

'Somatic selection and adaptive evolution' ?by E.J. Steele, 1p.

'Boundaries and barriers', 1p.

'Chance', 1p.

'Gaia hypothesis', 1p.

A.106

'Bohmedallions' by R. Zend. Collection of typescript poems so titled. Nd.

'Tea with Mr Hockney' by J. Cornwell, extract of magazine article in which Hockney refers to work of Bohm (p.40). Nd. See also A.80.

A.107 Miscellaneous photocopies etc of shorter pieces on Bohm and his work.

LIFE AND CAREER

A.108-A.112 Photocopies of manuscript essays and notes by Bohm.

A.108 Inventions:

'The Vertical Wing Tip', June 1933.

'A Non-Drip Rim for Bottles', September 1933.

'The All Wave Superheterodyne', 22 January 1934.

1	'Internal combustion turbine', nd.
	'The Two-Stroke Cycle Compression-Ignition Engine', nd.
	'D.C. Electric Motors', nd.
A.109	Letter to editor of 'Wonder Stories', 1933.
	Doodles and jottings.
	Mathematics notes, nd.
A.110	'General Theory of the Cosmos. Part I. The Static Inter-Relations of Space, Time and Matter', nd.
	'Part II. The Dynamic Inter-Relations of Space, Time, and Matter', nd.
	'Assumptions and Definitions', nd.
A.111	'Conditions of Industry' etc, nd.
	'Should the Govt enter the anthracite coal industry?', nd.
A.112	'Interplanetary plot', nd.
	'Science Fiction outline', ?1950s.
A.113	Graduation, 1939.
	Photocopy of Bohm's student record etc.
A.114-A.121	Appearance before the US House Committee on Un-American Activities
	(HCUA) and subsequent dismissal from Princeton University, 1949-1951.
	While working at the Berkeley Radiation Laboratory during the Second World War Bohm was active in the Federation of Architects, Engineers, Chemists and Technicians (FAECT) trade union. At this time (1942) Bohm also joined the Communist Party but he left a year later.
	The activities of FAECT at the Radiation Laboratory had occasioned some concern during the war (see A.115) and in 1949, as Cold War tensions

	increased, HCUA began to investigate staff who had been working there. Bohm was called upon to testify before HCUA on 25 May and 10 June 1949 but pleaded the Fifth Amendment refusing to give evidence against colleagues.
	In September 1949 the Soviet Union tested its first atomic device and it was thought that atomic bomb secrets must have been passed to the USSR. Pressure to uncover Soviet spies was intensified. HCUA alleged Bohm and other members of the FAECT were members of a Communist cell working at Berkeley during the war. In December 1950 Bohm was charged with Contempt of Congress for refusing to answer questions about colleagues before the HCUA and arrested. He was acquitted in May 1951.
	Princeton University had suspended Bohm in December 1950, barring him from the University, and after his acquittal refused to renew his contract, despite support for Bohm from Einstein and others, thus effectively dismissing him.
A.114	'Princeton, David Bohm and the Cold War' by R. Olwell, ca.1992.
	33pp typescript draft.
A.115	Photocopies of FBI etc reports on FAECT activities at the Radiation Laboratory, 1943.
A.116	Photocopies of 1943 report on FAECT activities, and interviews with G.R. Lomanitz and Bohm conducted by M. Sherwin in 1979, sent to Bohm by E.W. Schreker, 2 September 1993.
A.117	Photocopy of extracts of HCUA Hearings regarding Communist Infiltration of Radiation Laboratory and Atomic Bomb Project at the University of California, Berkeley (Washington 1949) featuring Bohm's testimony.
A.118	Photocopies of photographs of Bohm and G.R. Lomanitz (a colleague at the Radiation Laboratory who also came under suspicion), with news agency descriptions, 1949.
A.119	Photocopies of manuscript notes from Columbia Oral History project interviews with H.W. Dodds, President of Princeton University during this period, and C. Durr, Bohm's Counsel.

A.120	'Who Gave Russia the A-Bomb?' by W.B. Huie, <i>American Mercury</i> , <i>ca</i> .1951, alleging Bohm was involved in supplying atomic bomb secrets to the USSR.
A.121	'Science, Security and the Cold War. The case of E.U. Condon' by Jessica Wang, ISIS (1992).
	Reference to Bohm on p.257.
A.122	Appointment as Professor of Physics, University of São Paulo, Brazil.
	Letter from A. de Moraes, Head of Physics Department, notifying E. Simões de Paula (Head of Faculty), of Bohm's arrival in Brazil, 10 October 1951; record of Bohm's service at the University 1951-1956. (In Portuguese)
A.123	Correspondence re US citizenship, 1965-1967, 1985-1986.
	When Bohm left the USA in 1951 he returned his passport, believing this was required by law. Living in Brazil without a passport he then had no option but to take Brazilian nationality and renounce his US citizenship. Subsequently efforts were made on his behalf to restore US citizenship to him. This was eventually restored to him in 1986.
A.124	Appointment as Professor of Physics, Birkbeck College London.
	'Problems in the basic concepts of physics', Published version with manuscript annotations of Bohm's inaugural lecture, 13 February 1963.
A.125	Nomination for National Science Foundation Senior Foreign Scientist Fellowship at New Mexico Institute of Mining and Technology, 1966.
	The nomination of Bohm was proposed by his colleague from the Radiation Laboratory, G.R. Lomanitz.
A.126	Correspondence 1977-1978, 1984, <i>re</i> Bohm's employment and pension contributions at the Berkeley Radiation Laboratory, Princeton University, University of São Paulo and the Technicon, Haifa.

A.127	Jeannette K. Watson Distinguished Professor in the Humanities, Syracuse University, 13 September - 1 October 1982.
	Publicity leaflet <i>re</i> the Professorship, with a list of lectures to be given by Bohm, principally on the philosophical implications of his work.
A.128	Invitation to serve on editorial board of Foundations of Physics, 1988.
	Notice of Wegand Foundation Lecture on 'The Relationship of Mind and Matter', University of Toronto, 11 October 1988.
	Programme of 'Fundamental Aspects of Quantum Theory. A conference [] to celebrate 30 years of the Aharonov-Bohm effect', 14-16 December 1989, Columbia, South Carolina. Bohm spoke at the conference.
A.129	Letter of congratulation from B.D. Josephson on Bohm's election to Fellowship of the Royal Society, 1990.

BIBLIOGRAPHY

A.130

List of 'Publications of Professor David Bohm 25 Nov. 94'.

SECTION B	DRAFTS, PUBLICATI	ONS AND LECTURES	B.1-B.82
	B.1-B.63	DRAFTS BY BOHM	
	B.64-B.69	DRAFTS BY F. D. PEAT	
	В.70-В.77	PUBLISHED WORK	

B.78-B.82 BOOK REVIEWS

DRAFTS BY BOHM

B.1	'Space, time and quantum theory', lecture draft, nd but probably related to 'Space, Time and the Quantum Theory understood in terms of discrete process', <i>Proceedings of the International Conference on Elementary Particles</i> , Kyoto, Japan (1965).
	Manuscript draft paginated 1-20, possibly incomplete.
B.2	'Space-Time - Leading up to relativity', lecture draft, nd but possibly related to preceding.
	Manuscript draft paginated 1-27.
B.3, B.4	'Time in Relativistic Quantum Theory', lecture draft, nd but related to preceding.
	Manuscript draft paginated 1-34. 2 folders.
B.5-B.9	'Collective treatment of liquid helium' with B. Salt, submitted for publication to the <i>Physical Review</i> 1966.
B.5	Letter from editor, 8 December 1966, enclosing referee's comments.
B.6, B.7	Manuscript and typescript draft with extensive corrections. 2 folders.
B.8	Incomplete typescript draft, paginated 4-39.
B.9	References; figures.
B.10-B.15	'Fragmentation & Wholeness in Science & Society'. Contents of folder so inscribed.
B.10, B.11	Talk on knowledge, Santa Monica, 1981.
	37pp typescript 'transcript'. 2 folders.

B.12	'Existing knowledge cannot meet the challenge', 'based on a talk given in Santa Monica [] 1981'.
	9pp typescript.
B.13	'Fragmentation and Wholeness in Science and Society', Seminar sponsored by the Science Council of Canada, Ottawa, 10 May 1983.
	Bound Report.
B.14	'Religion as Wholeness and the problem of Fragmentation', 'based on a talk given at St James Church, Piccadilly, London, September 1983'.
	13pp typescript.
B.15	'The Implicate Order, Consciousness and Religion', 'based on a talk given at the Center for Theology and the Natural Sciences, Berkeley, California', nd.
	20pp typescript.
B.16	'Soma-significance: a new notion of the relationship between the physical and the mental'.
	44pp typescript 'Corrected version - 1.5.84'.
B.17	'Somasignificance: a notion of the unity of the nature of life', with J.L Hancke, <i>ca</i> .1984.
	32pp typescript.
B.18	'The deeper structure of thought and corresponding neurophysical processes as major source of conflict', November 1987.
	17pp typescript.
B.19	'An ontological foundation for the quantum theory', ca.1987.
	24pp typescript + transparencies for figures.

B.20-B.24	'Bohm: various articles on Dialogue/& connected'. Contents of folder so inscribed divided into five for ease of reference.
B.20	'The discipline of team learning', latest bibliographical reference 1987.
	Typescript and manuscript draft.
	The typescript draft was sent to Bohm for comment and assistance, and there are many manuscript additions by him.
B.21	'MIT dialogue 10/3/89'.
	59pp typescript.
B.22	'On dialogue'.
	8pp typescript.
	See B.76 below.
	'Addendum to "Dialogue on Science, Society, and the Generative Order" ', with S. Kelly.
	11pp typescript.
B.23, B.24	Untitled ?transcript of talk on Dialogue, nd.
	43pp typescript. 2 folders.
B.25-B.30	'Bohm & Peat Order In-between'. Contents of folder so inscribed divided into six for ease of reference.
	Typescript drafts and notes for planned book and background material found therewith.
B.25	Two different versions of 'Notes at the Bailey Farms October 1988'.
	Both 19pp.

B.26	Two slightly different versions of Peat's 'Notes with David Bohm October 1989'.
	5pp and 14pp.
B.27	'Bohm-Peat notes. October 1990 for the book "The Order Between and Beyond" '.
	4рр.
B.28	'The Order Between. A book proposal by David Bohm and F. David Peat'.
	13pp 'Uncorrected draft'.
B.29	'Science for Understanding People, Culture, Universe and Struggle', author unidentified, Native Science Conference, 9-12 July 1989.
	18pp typescript
B.30	Typescript papers by F.D. Peat: 'Gentle Action for a Harmonious World', 8pp; 'A science of harmony and gentle action', 13pp.
B.31	'Notes on General Theory of Thought', revised 17 November 1989.
	9pp typescript outline for book.
B.32-B.34	Untitled work beginning 'This book deals with a crisis that humanity is facing'.
B.32	Bound copy 'Edition 6.6.90'.
B.33	'David Bohm', slightly different version of the work as prepared in electronic hypertext form, nd.
	Bound copy.
B.34	Typescript drafts of 'Introduction', 9pp; 'Sorrow and passion', 11pp.

B.35	'Science and spirituality: the need for a change in culture', talk 'based on a lecture given at the Fetzer Institute on 23 October 1990'.
	12pp typescript.
В.36-В.38	'P. Pylkkänen & Bohm'. Contents of folder so inscribed divided into three for ease of reference: typescript papers by Pylkkänen and Bohm.
B.36	'Outline of a paper on cognitive science', 1991.
	14pp with manuscript corrections.
B.37	'Cognition as a movement towards coherence', 12 April 1991.
	16рр.
B.38	Incomplete later draft of 'Cognition as a movement towards coherence'.
	23pp, paginated 9-31.
B.39, B.40	'Dialogue: a proposal', with D. Factor and P. Garrett, 1991.
B.39	'Revision, March 9, 1992'.
	15pp typescript.
B.40	Later version.
	17pp typescript.
B.41	'Science, Spirituality and the Present World Crisis'.
	This lecture was given at the 12th International Transpersonal Conference on 'Science, Spirituality and the Global Crisis: Toward a World with a Future', Prague, 20-25 June 1992.
	Two 1p typescript ?abstracts; annotated conference programme.

'The Undivided Universe: an ontological interpretation of quantum theory', with B.J. Hiley. (Published by Routledge, London, 1993). See also B.81.
Bound typescript draft.
'Creativity in Art and Science', talk at 'U.C. Santa Barbara', nd.
2pp manuscript + transparencies.
'On the failure of communication between Bohr and Einstein', with D.L. Schumacher, nd.
8pp typescript.
'The Post-Modern Physics and the Post-Modern World', nd.
5pp typescript.
'Post-Modern Science as involving questions of meaning and value', nd.
3pp typescript.
Undated photocopied typescript and manuscript drafts found together and inscribed 'Copyright D.Bohm'.
'Some reflections on thought'.
3pp typescript and 10pp manuscript.
'Further reflections on the process of thought'.
13pp manuscript.
'2. On the thought process as an aspect of the "Programme" '.
Typescript paginated 9-22.
'6. The movement of the mind beyond thinking and feeling'.23pp typescript.

B.49	'Systems in science and technology'.
	10pp typescript.
B.50	'Understanding in Science'.
	19pp typescript.
B.51	'Understanding Time in Relativity'.
	26pp typescript.
B.52	'The chemistry of words'.
	Manuscript draft with extensive corrections.
B.53	Draft on thought.
	10pp manuscript.
B.54-B.61	Extensively corrected manuscript drafts on the 'l' structure. 8 folders.
B.62	Manuscript notes for ?lectures, nd.
B.63	Mathematical notes for ?lecture, nd.

4pp manuscript.

Drafts, publications and lectures

DRAFTS BY F. D. PEAT

Material found in a folder inscribed 'D. Peat (Various notes on physics etc)'. It comprises typescript and manuscript notes drafts dating 1980-1982.

Bohm and Peat were collaborators in research on quantum mechanics and the drafts contain references to Bohm's work.

- B.64 Manuscript notes on 'The "Great Work" revisited', 31 January 1980; typescript and manuscript 'Research Report D. Peat 5 Feb 1980'.
- B.65 Manuscript notes 8, 9 August 1981 and nd.
- B.66 Manuscript and typescript notes, 1 September and 18 October 1981; manuscript notes, nd.
- B.67 Typescript notes on 'Discussion Nov 1981', with manuscript addition 22 February 1982; 5pp typescript 'Analysis of previous papers', November 1981; 1p 'Some November notes'.
- B.68 9pp typescript 'Paper on Structure and Space-time', nd; untitled 5pp typescript draft on quantum theory, nd; 4pp typescript 'Introduction' on problems of physics, nd.
- B.69 Miscellaneous undated manuscript and typescript notes and pages of drafts.

PUBLISHED WORK

- B.70 'Comparação entre a Física no Brazil e nos Estados Unidos', Notas de Matemática e Física 1 (1953), 11-28 (In Portuguese)
- B.71 'Proof that Probability Density Approaches $[\psi]^2$ in Causal Interpretation of the Quantum Theory', *New Research Techniques in Physics* (Rio de Janeiro, 1954), 187-198.

Drafts, publications and lectures

1	'Causal Explanation of Probability Distributions in Classical Statistical Mechanics', <i>idem</i> , 219-220.
B.72, B.73	Publications arising from Kettering Foundation Symposium on 'Knowledge, Education, and Human Values: Toward the Recovery of Wholeness', 17-20 June 1980, Woodstock, Vermont.
B.72	'Insight, Knowledge, Science, and Human Values', <i>Teachers College Record</i> 82 (1981), 380-402.
B.73	Symposium Report.
B.74	'Imagined Worlds: visions of theoretical physics', book review of <i>Imagery in Scientific Thought: Creating 20th Century Physics</i> by A.I. Miller, <i>Nature</i> 314 (1985).
B.75	'A new theory of the relationship of mind and matter', <i>Philosophical Psychology</i> 3 (1990), 271-286.
B.76	'On Dialogue', <i>Noetic Sciences Review</i> 23 (1992), 16-18, republished as 'For Truth try Dialogue', <i>Resurgence</i> 156 (1993), 10-13. See also B.21 above.
B.77	'A brief introduction to the work of Krishnamurti', Krishnamurti Foundation of America leaflet (Ojai, California). Nd.
BOOK REVIEWS	
	Reviews by others of books by Bohm.
B.78	The Special Theory of Relativity (Massachusetts, 1966).

Drafts, publications and lectures

B.79	Wholeness and the Implicate Order (Boston, Massachusetts, 1980).
B.80	<i>Science, Order and Creativity</i> , with F.D. Peat (New York, 1987; London, 1989).
B.81	The Undivided Universe: an ontological interpretation of quantum theory, with B.J. Hiley, (London, 1993). See also B.42.
B.82	Thought as a System (London, 1994).

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SECTION C	CORRESPONDENCE		C.1-C.92
	C.1-C.65	GENERAL CORRESPONDENCE	
	C.66-C.92	CORRESPONDENCE WITH C.J. BIEDI	ERMAN
GENERAL CORRESP	PONDENCE		
C.1	Aharonov, Y.		ca.1961
	Aharonov was Bohm's research student at Bristol University in the late 1950s. They discovered the 'Aharonov-Bohm effect', the first demonstration of how a vacuum could produce striking physical effects.		
	Letter from Aharonov /	re current research.	
C.2	Bakhshov, N.		1989
	Letter to Bohm re idea	of meaning.	
	Barfield, O.		1988
	Correspondence re Bo	hm's book <i>Science, Order and Creativity</i> (1987).
C.3	Beck, G.		1952-1953
	Photocopies of corresp	bondence from Bohm to Beck re visits, re	esearch and

the letters and note of location of originals.

Bohm's position at the University of São Paulo . Folder also includes list of

Material received from Dr Olival Freire Jr. The originals are deposited in the Guido Beck Archive, Centro Brasileiro de Pesquisas Físicas, Rio de Janeiro, Brazil.

C.4	Berman, M.	1984, 1989
	Letter to Bohm 1984 <i>re</i> his paper on 'soma-significance' (see 1989 correspondence <i>re</i> Berman's article <i>The Cybernetic D</i> <i>Twenty-First Century;</i> and letter to Bohm 1989 <i>re</i> idea of 'embo	Fream of the
	Blake, A.	1964
	Letter to Bohm re analysis of painting.	
C.5	Brendel, V.	1986
	Letter re Bohm's visit to Israel 1986.	
	Briggs, J.	1991
	Letter re Bohm's depression.	
	Brown, R.L.	1962
	Note on 'Causality & Chance in Modern Physics. D. Bohm 1/3/	62'.
C.6	Broglie, L. de	1952, 1953
	Photocopies of letters from de Broglie on Bohm's ideas mechanics (in French).	on quantum
C.7	Buckley, P.	1991
	Letter re Bohm's depression.	
	Carmi, G.	1988
	Invitation to and correspondence re conference in Bermuda, Ap	ril 1988.
C.8	Colgate, S. A.	1965-1967
	Colgate was President of the New Mexico Institute of Technology where G. R. Lomanitz, Bohm's colleague from Radiation Laboratory in the late 1940s, was subsequently employed	the Berkeley

Photocopies of correspondence re Bohm's possible return to the US.

C.9	Cowen, R. D.	1987
	Letter to Bohm re 'meditative experiment'.	
	?Dinggauo, H.	1987
	Letter to Bohm re his vist to China.	
	Ehresmann, A. C.	1990
C.10-C.16	Einstein, A. ca. 1950-1954, 1965,	1985
	In 1951 Bohm sent a copy of his first book <i>Quantum Theory</i> to Ei among other leading scientists. Einstein thought highly of the book ar began a correspondence. After Bohm's difficulties with the Committee on Un-American Activities and his subsequent move to Einstein sent his advice and provided letters of recommendation.	nd they House
	The material is photocopies of correspondence between Bohm and Ei The bulk of the letters are a numbered sequence 1-22. Number 16, was lacking, was supplied by Dr Freire. Some of the letters are in G with an English translation also provided.	which
	Originals are in the Einstein Archive, Jewish National & University L Hebrew University of Jerusalem.	₋ibrary,
C.10	<i>ca</i> .1950-1951. Letters from Bohm <i>re</i> his interpretation of qu phenomena.	lantum
C.11	1951-1952. References and letters of support for Bohm; padifficulties; work on quantum theory.	assport
C.12	1953 February. Correspondence <i>re</i> Bohm's response to article by E for <i>Festschrift</i> for M. Born.	instein
	Bohm differed from Einstein in his understanding of Born's the quantum mechanics.	ory of
C.13	1953 March, April. Born Festschrift.	

C.14	1954 January - June. Includes Einstein's advice on where Bohn seek employment.	n should
C.15	1954 October, November. Includes exchange of views on quantum Einstein expressing his belief in the logical simplicity of physical laws	
C.16	1965. Incomplete letter to Bohm from unidentified correspon Einstein's views on the Michelson-Morley experiments, with copy from Einstein to F.C. Davenport, 9 February 1954.	
	1985. Letter to Bohm from H.M. Loewy re reproducing correspondence.	Einstein
C.17	Elkana, Y. 198 Invitations to visit Israel.	5-1987
C.18	Garrett, P.	1987
	Typescript draft on Dialogue by Garrett.	
	Gilbert, D.	1985
	Letter to Bohm arising from his Dialogues.	
C.19	Globus, G. G.	1983
	Includes draft of 'Beating about the bushes of the holonomic parad Globus, sent to Bohm for comment.	ligm' by
C.20	Gyr, J.	a.1983
	Re Gyr's drafts of 'Proposals about a mathemtical hierarchy of autopoietic forms and static special-cases thereof as a means of "Schizophrenic-type" development'.	
C.21	Harrison, W. A.	1959
	Letter to Bohm re electromagnetic potentials.	

C.22-C.26	Heflin, L.	1983-1984
	Heflin corresponded with Bohm on philosophy and sent Bohm ideas on Time and other subjects.	drafts of his
	Letters etc from Helfin. 5 folders.	
C.27	Hubel, D. H.	1963
	Letter to Bohm re cell response.	
0.00		1004 1000
C.28	Kahler, L. 195[?], 1962,	1984, 1986
	Photocopies of Bohm's letters to Kahler.	
	Includes 1950s letter on his life in Brazil; 1984 and 1986 letters Bohm-Einstein correspondence.	re copies of
C.29	Kaloyerou, P. N.	1988
	Letter to Bohm re particles in time.	
C.30-C.34	Karnette, R.	1988, 1989
	Karnette corresponded with Bohm principally <i>re</i> the thought of His letters were usually enclosed photocopies of extracts Krishnamurti and others. Karnette's letter of 19 June 1988 (C.3 annotated by Bohm.	of work of
	Letters etc from Karnette. 5 folders.	
C.35	Kell, R.	1989
	Includes draft of 'A reading of Chance and Necessity' by Kell, s for comment.	ent to Bohm

C.36	Kolman, A.		1962
	Kolman was Director of the Philosophica Academy of Sciences.	al Institute of the Czecho	slovak
	Letters from Kolman on his work on infinity	etc.	
	Laurikanien, K. V.		1987
	Letter re Symposium ?in Finland.		
C.37-C.41	Loewy, H. M.	1950-ca.1955, 1979, 1984-	-1985
	Hanna Loewy was a close friend of Bohm' re Bohm's difficulties in the US and his time		
	Photocopies of correspondence, nearly all	etters from Bohm to Loewy	Ι.
	In 1984 Bohm requested Loewy send him of in Brazil to strengthen his case for the restor C.41.		
C.37	1950, 1951 June.		
C.38	1951 October-December. Includes Bohm'	s initial reactions to life in B	Brazil.
C.39	1953.		
C.40	1950s. Undated letters to Loewy from Braz current work and future plans.	zil. Include references to B	ohm's
			8 820
C.41	1979, 1984-1985. Correspondence 1984- to regain US citizenship.	1985 relates to Bohm's att	empts

C.42	Lomanitz, G.R.	1965, 1966
	Lomanitz was a colleague of Bohm's at the Berkeley Laboratory and was also called before the House Comp American Activities.	
	Photocopies of letters to Lomanitz <i>re</i> possible return to the U of 21 November 1966 Bohm explains his association with Co his subsequent rejection thereof.	
C.43	Margolis, J.	1988
	Letter to Bohm re 'soma-significance'.	
	Maule, P.	1987
	Letter to Bohm re possible joint seminar.	
	Oak Grove School, Ojai, California	1987
	The Ojai Grove School hosted Bohm's meetings on Dialog 1980s.	jue in the late
	Letter of thanks to Bohm.	
C.44	Pauli, W.	1951
	Photocopy of letter from Pauli re Bohm's ideas on quantum th	ieory
C.45	Peat, F. D.	1988, nd.
0.10	r oug r · Dr	1000, 114.
C.46-C.50	Phillips, M. 195	51-1955, 1962
	• •	5×
	With the exception of the one 1962 letter from Phillips to Bo material is photocopies of letters from Bohm to Phillips sent of in Brazil and shortly after his move to Israel. They ma requested by Bohm to aid his attempt to regain US citizenship Most of the letters were undated but have been retained i which they were found. The letters give personal news as w views on Brazilian society, science in Brazil, international a progress of his research.	during his time ay have been p in the 1980s. n the order in well as Bohm's

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C.46-C.48	1951-1954. Letters from Brazil.	
	3 folders.	
C.49	1955. Letters from Israel.	
C.50	1962.	
C.51-C.54	Platt, J. R.	1963
	'Bohm and Platt on Perception. Correspondence 1963'. Typeso correspondence between Platt and Bohm, paginated 1-105, sp period 11 March - 10 November.	
	4 folders.	
C.55	Polanyi, M.	1962
	Pór, G.	1991
	Letter (faxed) from Pór re Dialogue.	
C.56	Ribeiro, C.	1953
	Photocopy of letter from Bohm re research funding. (In Portugue	se) [*]
C.57	Rosen, S.	1983
	Letters from Rosen <i>re</i> Bohm's ideas. Rosen's letter of 21 comments on Bohm's paper on 'Soma-significance' (see B.16, B.	November
C.58	Rosenfeld, L.	1952
		1

^{*} Material received from Dr Olival Freire Jr. The original is deposited in the Guido Beck Archive, Centro Brasileiro de Pesquisas Físicas, Rio de Janeiro, Brazil.

1	Sagenkahn, I. and P.	1993
	Brief correspondence re Malcolm Sagenkahn, a friend o	of the Bohms.
C.59	Salk, J.	1986
	Letter to Salk from Bohm setting out his research plans	in retirement.
	Shen, J-P	Nd
	Manuscript draft of 'The explanation of uncertainty interpretation of quantum theory'.	relation in Bohm's
C.60	Taylor, P.	1965
	Letter to Taylor from Bohm on 'intelligence'.	
C.61	Vigier, JP.	1962, nd
	Vigier was co-author with Bohm, L. de Broglie and paper 'Rotary model of elementary particles conside extended structures in Minowski space'.	
	Correspondence from Vigier re joint work.	
C.62	Walsh, R.	1987
	Letter from Walsh re 'A course in miracles'.	
	Wheeler, J. A.	1965
	Letter from Wheeler to W. A. Benjamin <i>re</i> Bohm's book of Relativity.	< The Special Theory
C.63	White, L.H.	1986
	Letter to Bohm re his paper on 'Fragmentation and W and in Science'.	holeness in Religion

C.64	Worth, R. R.	1963
	Worth was Editorial Director of W. A. Benjamin Inc, Publishers.	
	Comments by referees on Bohm's draft 'The Theory of Relativity'.	
C.65	Unidentified correspondents. First name only. 1956, 1962, 19	989, nd

CORRESPONDENCE WITH C. J. BIEDERMAN

Charles Joseph Biederman (b.1906) was an American painter, sculptor and theorist. The correspondence was initiated by Biederman who wrote to Bohm in March 1960 inspired by his book *Causality and Chance*. Between 1960 and 1969 they conducted an extensive correspondence. Bohm's letters to Biederman contain detailed expositions of his philosophical outlook and views on a wide range of philosophical and scientific issues.

The material is photocopied correspondence, 1960-1969. It was divided into three components: early exchanges 1960-1962, paginated 1-249 (C.66); letters from Bohm to Biederman 1962-1969, paginated 1-3202 (C.67-C.85); and letters from Biederman to Bohm 1962-1969, paginated 1-673 (C.86-C.92).

The 1962-1969 correspondence from Bohm to Biederman and from Biederman to Bohm was divided into nineteen and eight numbered bundles respectively

C.66	Correspondence 1960-1962. Paginated 1-249.
C.67-C.85	Bohm to Biederman.
C.67	Bundle 1, February - May 1962. Paginated 1-140.
C.68	Bundle 2, June - August 1962. Paginated 141-310.
C.69	Bundle 3, August - October 1962. Paginated 311-529.
C.70	Bundle 4, October - November 1962. Paginated 530-731.

C.71	Bundle 5, November - December 1962. Paginated 732-905.
C.72	Bundle 6, December 1962. Paginated 906-1069.
C.73	Bundle 7, January - March 1963. Paginated 1070-1318.
C.74	Bundle 8, March - June 1963. Paginated 1319-1467.
C.75	Bundle 9, June - September 1963. Paginated 1468-1594.
C.76	Bundle 10, September - December 1963. Paginated 1595-1722.
C.77	Bundle 11, January - March 1964. Paginated 1723-1848.
C.78	Bundle 12, March - April 1964. Paginated 1849-1962.
C.79	Bundle 13, May - September 1964. Paginated 1963-2166.
C.80	Bundle 14, September - December 1964. Paginated 2167-2406.
C.81	Bundle 15, January - May 1965. Paginated 2407-2667.
C.82	Bundle 16, August 1965 - December 1966. Paginated 2668-2808.
C.83	Bundle 17, January - ?December 1967. Paginated 2809-2924.

C.84	Bundle 18, January - ca.July 1968. Paginated 2925-3067.
C.85	Bundle 19, July 1968 - April 1969. Paginated 3068-3202.
C.86-C.92	Biederman to Bohm.
C.86	Bundles 1 and 2, May - September 1962. Paginated 1-97.
C.87	Bundle 3, September - December 1962. Paginated 98-216.
C.88	Bundle 4, January - May 1963. Paginated 218-293.
C.89	Bundle 5, June - December 1963. Paginated 294-352.
C.90	Bundle 6, January - December 1964. Paginated 353-503.
C.91	Bundle 7, January 1965 - December 1966. Paginated 504-586.
C.92	Bundle 8, April 1967 - ?October 1969. Paginated 587-673. Plus undated letter of 11 ?October 1969.

INDEX OF CORRESPONDENTS

AHARONOV, Yakir	C.1
ANGELOS, William M.	A.87
BAKHSHOV, Nadim	C.2
BARFIELD, Owen	A.21, C.2
BECK, Guido	C.3
BENJAMIN, William A.	C.62
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BERNSTEIN, Mary	A.22
BIEDERMAN, Charles Joseph	C.66-C.92
BLAKE, Anthony	C.4
BRENDEL, Volker	C.5
BRIGGS, John	C.5
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Supplementary catalogue of the papers and correspondence of

David Joseph Bohm FRS

(1917 - 1992)

by Timothy E. Powell and Peter Harper NCUACS catalogue no. 156/6/07

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GENERAL INTRODUCTION

For an outline of the career of David Bohm see the introduction to the 'Catalogue of the papers and correspondence of David Joseph Bohm' compiled in 1997 (NCUACS catalogue no. 66/4/97), hereafter referred to as the original catalogue. A longer account is to be found in B.J. Hiley, 'David Joseph Bohm 20 December 1917-27 October 1992', *Biographical Memoirs of Fellows of the Royal Society* 43 (1997), 105-131, a copy of which is at A.133.

PROVENANCE

This material was received from Professor B.J. Hiley, via Birkbeck College London, in November 2006.

DESCRIPTION OF THE COLLECTION

This material, which spans 1933-2005, forms a valuable additional resource for the study of Bohm's life and thought. There are some documents that directly relate to material presented in the 1997 catalogue, and this is indicated in the catalogue entries by reference to the original catalogue, but the bulk is new.

The catalogue entries in this volume have been numbered to follow on from the earlier catalogue.

Section A, Biographical, includes a copy of the Royal Society biographical memoir of Bohm, additional interviews and dialogues material, including a series of contributions to the magazine *ReVision*, and some additional material relating to the Ojai Dialogues of 1989. There are further articles about Bohm showing the continuing interest his life and ideas inspired. Life and career material includes documentation of his election to the Fellowship of the Royal Society including letters of congratulation. The original catalogue contained a solitary letter of congratulation, from Brian Josephson, which reinforced the picture of him as a loner shunned by the mainstream scientific establishment. The addition to this of congratulations from figures such as Lord Flowers, Sir Roger Penrose and Abdus Salam indicates the high regard in which he was widely held. The section also has a little personal correspondence, which includes documentation of visits to North America in the 1970s and 1980s, and material relating to his wife Saral Bohm that shows her promoting her husband's ideas after his death

Section B, Drafts, publications and lectures, is the largest in this catalogue. It covers the period 1951 to 1998. Of particular note is the further material presented on the themes of wholeness and

fragmentation and the implicate order. The section also presents significant documentation of Bohm's ideas in quantum theory. Drafts by Bohm include series of lectures 'On plasma physics', delivered at the University of Rome in May 1958 and on 'General theory of collective coordinates', University of Bristol, about the same date. Bohm's wider vision is documented in papers delivered at various meetings, such as 'An inquiry into the function of language and thought' (Institute of Contemporary Arts, London, March, 1971), 'Insight, imagination, reason and the nature of knowledge' and 'Consciousness' (Syracuse University, September 1982), and 'Fragmentation and wholeness' (Eidgenossische Technische Hochschule, Zürich, Switzerland, 1986). The coverage of Bohm's published output in the original catalogue was rather thin; this catalogue presents significantly more material documenting his publications. It includes articles on quantum theory from the 1950s onwards, drafts of *Causality and Chance in Modern Physics (1957)* and the final chapter of *Wholeness and the Implicate Order* (1980), and a posthumously published work 'Cosmos, Matter, Life and Consciousness', in *The Spirit of Science. From Experiment to Experience*, 1998 from a lecture originally given in 1983.

Section C, Correspondence, presents important new material on Bohm's life and ideas. It includes a bound volume of correspondence with the philosopher J.G. Bennett (1962-1964) largely arising from ideas put forward in Bennett's book *The Dramatic Universe*, much influenced by G.I. Gurdjieff. There is correspondence with A. Kahler and her daughter H.M. Loewy 1950-1951, in which Bohm discusses his difficulties with the Un-American Activities Committee, his move to Brazil and future plans. There are exchanges with D.L. Schindler, editor of *Communio*, a Roman Catholic journal, arising from Schindler's review of Bohm's *Wholeness and the Implicate Order*. Correspondence with F. Wilhelm includes discussion of the thought and personality of J. Krishnamurti, who was a profound influence on the thought of both men, and further discussion of Krishnamurti is to be found in the typescript transcripts of correspondence with Yitzhak ('Isidore') Woolfson, Bohm's brother-in-law. This correspondence also discusses individuality, the nature of understanding, memory and the Arab-Israeli conflict. There is an extensive set of photocopies of manuscript letters from Bohm to the mathematician Miriam Yevick. The letters cover the early 1950s after Bohm's move to Brazil and cover his experiences there, his future plans, and the state of the world, as well as the development of his ideas in quantum theory.

Section D, Non-textual material, is a section not present in the original catalogue. Of particular note are the audio cassette tapes of broadcasts on Radio France in 1982 and the proceedings of the memorial meeting to Bohm held at Birkbeck College London in May 1993.

There is also an index of correspondents.

T.E. Powell Bath 2007

SECTION A

BIOGRAPHICAL, A.131-A.181

1933-2005

A.131-A.134	OBITUARIES AND TRIBUTES
A.135-A.148	INTERVIEWS, DISCUSSIONS AND DIALOGUES
A.149-A.163	ARTICLES AND PAPERS ABOUT BOHM
A.164-A.174	LIFE AND CAREER
A.175-A.179	PERSONAL CORRESPONDENCE
A.180, A.181	SARAL BOHM

A.131-A.134	OBITUARIES AND TRIBUTES	1992-1998
A.131	Letters of condolence	1992-1993
	These are additional to those at A.6-A.12 of the original catalogue and were not in the list in A.5.	
A.132	'Remarks by S Schweber at memorial meeting for Dave Bohm', 3 December 1992	1992
	Printed out email, 3pp	
A.133	⁽ David Joseph Bohm 20 December 1917-27 October 1992) by B.J. Hiley, <i>Biographical Memoirs of Fellows of the Royal</i> <i>Society</i> 43 (1997), 105-131	1997
	Offprint.	
A.134	Tribute to Bohm from newsletter of the Instituto de Estudos Avancados da Universidade de Sao Paulo, vol 10 no 2 (1998)	1998
	The newsletter is announcing a forthcoming symposium on David Bohm's work.	

A.135-A.148	INTERVIEWS, DISCUSSIONS AND DIALOGUES	1978-1989
A.135	'The enfolding-unfolding universe: a conversation with David Bohm' by Renée Weber, <i>ReVision</i> 1 (1978), 24-51	1978
	Photocopy of published conversation	
A.136	'Mind, nature and the quantum', interview with G.W. Schaeffer, 11 February 1981	1980-1981
	21pp typescript transcript; correspondence <i>re</i> arrangements.	
	Schaeffer was Professor of Ecological Physics, Cranfield Institute of Technology. The interview was to have been published (in part) in the <i>Christian Science Monitor</i> .	
A.137	Interview by Lillian Hoddeson, Center for History of Physics, American Institute of Physics, 8 May 1981	1981
	16pp typescript transcript.	
A.138	'The physicist and the mystic - is a dialogue between them possible?', by Renée Weber, <i>ReVision</i> 4 (Spring 1981), 21-74	1981
	Photocopy of published conversation.	
A.139	'Conversations between Rupert Sheldrake, Renée Weber, David Bohm', <i>ReVision</i> 5 (Fall 1982), 23-48	1982
	Photocopy of published conversations.	
A.140	'Of matter and meaning: the super-implicate order. A conversation between David Bohm and Renée Weber', <i>ReVision</i> 6 (1983), 34-44	1983
	Photocopy of published conversation.	
A.141, A.142	'Joe Schaeffer interview with David Bohm' 23 July 1986	1986

Biographical, A.131-A.181

A.141	Print-out of transcript	
	42pp.	
A.142	Revised transcript	
	31рр.	
A.143	Interview by Dipankar Home, <i>Science Today</i> November 1986, 25-27, 48-49	1986
	Photocopy of published interview.	
A.144	'Interview between David Bohm and Lee Nichol'	1989
	14pp typescript transcript so headed.	
	This an earlier version of the 1989 conversation presented at A.40 of the original catalogue	
		1000
A.145-A.148	Ojai Dialogues	1989
A.145-A.148	See also A.67-A.70 of the original catalogue.	1909
A.145-A.148 A.145		1989
	See also A.67-A.70 of the original catalogue. 'David Bohm meeting with Oak Grove students, Ojai,	
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	See also A.67-A.70 of the original catalogue. 'David Bohm meeting with Oak Grove students, Ojai, California, November 14, 1989' 43pp typescript transcript. This was the basis of the booklet at A.66 in the original	
A.145	See also A.67-A.70 of the original catalogue. 'David Bohm meeting with Oak Grove students, Ojai, California, November 14, 1989' 43pp typescript transcript. This was the basis of the booklet at A.66 in the original catalogue.	1989
A.145	See also A.67-A.70 of the original catalogue. 'David Bohm meeting with Oak Grove students, Ojai, California, November 14, 1989' 43pp typescript transcript. This was the basis of the booklet at A.66 in the original catalogue. 'David Bohm Seminar December 2, 1989'	1989
A.145	See also A.67-A.70 of the original catalogue. 'David Bohm meeting with Oak Grove students, Ojai, California, November 14, 1989' 43pp typescript transcript. This was the basis of the booklet at A.66 in the original catalogue. 'David Bohm Seminar December 2, 1989' 64p typescript.	1989
A.145	See also A.67-A.70 of the original catalogue. 'David Bohm meeting with Oak Grove students, Ojai, California, November 14, 1989' 43pp typescript transcript. This was the basis of the booklet at A.66 in the original catalogue. 'David Bohm Seminar December 2, 1989' 64p typescript.	1989

Biographical, A.131-A.181

A.149-A.163	ARTICLES AND PAPERS ABOUT BOHM	1983-2005
A.149	Newspaper references to Bohm' Why Einstein was wrong about light' by Danah Zohar, <i>Sunday Times</i> 20 February 1983 (photocopy); 'The universe as seen from North Beach', <i>San Francisco</i> <i>Chronicle</i> , 17 August 1997.	1983,1997
A.150	'Some remarks on the significance of David Bohm's views for biology' by K. Kortmulder, <i>Acta Biotheoretica</i> 36 (1987), 275-280 Corrected offprint.	1987
A.151-A.155	'Material collected by David Peat for his 1992 biography + not in folders A.20-A.22'. Contents of folder so labelled	1992-1996
A.151-A.153	Print-outs of unedited transcripts of reminiscences of Bohm The reminiscences focus in particular on Bohm's family background, his relationship with Krishnamurti, his move towards the dialogue technique, and his depression. Those interviewed include Saral Bohm, Lee Nichol, Dave Moody and Mort Weiss. 3 folders.	1994
A.154, A.155	Miscellaneous letters and copies of letters, information, poems etc. 2 folders.	1993-1996
A.156	'Remembering David Bohm' by M. Germine, <i>Psychoscience</i> vol 1 no 1 (1994), 3-5 First issue of <i>Psychoscience</i> , which also includes 'Soma- significance: a new notion of the relationship between the physical and the mental' by Bohm, published posthumously (see B.16 of the original catalogue).	1994

A.157	'The quantum metaphysics of David Bohm' by T.J. Germine, <i>Pyschoscience</i> vol 1 no 2 (1994), 139-149	1994
	Issue of <i>Pyschoscience</i> .	
A.158	Photocopied pages referring to Bohm from <i>The Quark and the Jaguar: Adventures in the Simple and Complex</i> by M. Gell-Mann (1995)	1995
A.159	'3 untitled pages (130 to 132) concerning DAVID BOHM Headed Das Jahr 1951. Dated 13 March 1995'	1995
	4pp photocopy manuscript notes on Bohm's life, apparently taken from German language draft, one page of which is appended; 1 page of typescript corrections.	
A.160	'Talk for Amherst', 12 June 1995, recollections of Bohm by Saral Bohm	1995
	8pp typescript.	
A.161	'David Bohm and collective movement' by A. Kojevnikov, HSPS vol 33 part 1 (2002), 161-192	2002
	Offprint.	
A.162	'Science and exile: David Bohm, the Cold War, and a new interpretation of quantum mechanics', <i>HSPS</i> vol 36 part 1 (2005)	2005
	Preprint.	
A.163	'Dialectical materialism and the construction of a new quantum theory: David Joseph Bohm, 1917-1992' by C. Forstner, 2005	2005
	Preprint.	

A.164-A.174	LIFE AND CAREER	1933-1990
A.164	Curricula vitae	
A.165	Bibliographies	
A.166- A.170	Manuscript notes, diagrams and essays 5 folders.	1933-1934, n.d.
	These are the notes of which the photocopies at A.108-A.112 of the original catalogue are copies. A.108=A.166, etc. The photocopies have been retained due to the poor condition of the originals.	-
A.171	'Statement made by David Joseph Bohm, March 23rd 1960' and 'Additional statement made by David Joseph Bohm on April 12th, 1960'; correspondence <i>re</i> visa 1983	[1960], 1983- 1984
	Photocopies of statements provided by Bohm to US Consulate in London in seeking return of his US passport.	
	The statements cover his political leanings, his current political views and his wish to return to the USA.	
A.172	Nomination of Bohm for Nobel Prize in Physics	1988-1989
A.173, A.174	Election to Fellowship of the Royal Society	1990
A.173	Arrangements for admission	
A.174	Letters of congratulation See also A.129 of the original catalogue.	

A.175-A.179	PERSONAL CORRESPONDENCE	1977-1985
A.175	Correspondence <i>re</i> retirement annuity from Princeton University	1977, 1983
A.176	Requests for leave of absence from Birkbeck College to lecture and attend conferences	1979-1983
	Bohm requests leave to make visits in the US and Canada.	
A.177	Exchange re genealogy of Bohm family	1983
A.178	Notes etc of itineraries of overseas visits (to USA and	1983-1985
	Israel) 1983-1985	
A.179	Miscellaneous correspondence	1982-1984
A.180, A.181	SARAL BOHM	1994-1998
	Saral Bohm was the widow of David Bohm. She shared many of his interests.	
A.180	Writings by Saral Bohm	1994-1997 and n.d.
	These short reflective pieces arose from sessions of the London Dialogue.	and ma.
A.181	Correspondence to Saral Bohm	1998

SECTION B

DRAFTS, PUBLICATIONS AND LECTURES, B.83-B.192 1951-1998

The material in this section forms a very significant addition to that presented in the original catalogue. In particular it offers important documentation of Bohm's published output.

B.83-B.115	DRAFTS BY BOHM
B.116-B.188	PUBLISHED WORK
B.189-B.191	REVIEWS
B.192	MEETINGS

B.83-B.115	DRAFTS BY BOHM	1958-1987, n.d.
B.83, B.84	'On plasma physics'	1958
	'Six lectures delivered at the University of Rome by Prof. D. BOHM', May 1958	
	Photocopy typescript.	
	2 folders.	
B.85-B.87	'General theory of collective coordinates', lectures at the H.H. Wills Physics Laboratory, University of Bristol, ca 1958	ca 1958
	Duplicated typescript, paginated 402-516.	
	3 folders.	
B.88	'On the role of language forms in experimental and theoretical physics'	ca 1967
	27pp duplicated typescript.	
	With covering note to B.J. Hiley.	

	Drafts, publications and lectures, B.83-B.192	
B.89	'Science as perception-communication', 'talk recorded on tape for the Illinois Symposium on Philosophy of Science, March 1969'	1969
	22pp duplicated typescript.	
B.90	'Notes on Holomode'	1970
	2pp duplicated typescript.	
	Holomode was Bohm's idea for a new conjugation of the verb to convey the sense of 'wholeness of action'.	
B.91, B.92	'An inquiry into the function of language and thought'. Two papers arising from 'Colloquy held at the Institute of Contemporary Arts, London, on March 28, 1971'	1971
D 04	(A. Engeneratelian and M/halanaas)	
B.91	'A. Fragmentation and Wholeness'	
	43pp duplicated typescript.	
B.92	'B. The Rheomode - an experiment with language & thought'	
	37pp duplicated typescript.	
B.93	'Human nature as the product of our mental models', talk at the Institute of Contemporary Arts, London, 15 March 1972	1972
	26pp duplicated typescript.	
B.94	'Fragmentation and wholeness', talk at the Van Leer Jerusalem Foundation, April 1972	1972
	26pp duplicated typescript.	
B.95	'Reality and knowledge considered as process', May 1974	1974
	27pp duplicated typescript.	

	Drafts, publications and lectures, B.83-B.192	
B.96	'The implicate or enfolded order - a new order for physics', October 1974	1974
	12pp typescript.	
B.97	'A plot for a science fiction novel', '(Inspired by Joseph Weizenbaum's talk)', 7 July 1980	1980
	14pp typescript; published copy of 'Computer science and the need for a human-centred science' by J. Weizenbaum.	
B.98, B.99	'A series of talks given at Syracuse University, September 1982'.	1982
	Duplicated typescripts of papers II and III.	
5.00		
B.98	'II. Insight, imagination, reason, and the nature of knowledge'	
	Paginated 38-65.	
B.99	'III. Consciousness, the limits of knowledge - and what may lie beyond'	
	Paginated 66-99.	
B.100	'Preliminary reply to Schindler's three questions arising ca 1 from Wholeness and the Implicate Order' and 'Further remarks on Schindler's review of my book'	1982
	14pp typescript and 4pp typescript.	
	See also B.171, C.101-C.104.	
B.101	'Reply to Weingard's paper' by Bohm and B.J. Hiley 1	985
	5pp typescript.	
	The paper discusses space-time.	
B.102	'A realist view of quantum theory', annotated 'Urbino 1 Conference 1985'	985

2	Drafts, publications and lectures, B.83-B.192	
	26pp duplicated typescript + references and figures.	
	This paper was a shorter version of 'An ontological basis for the quantum theory' by Bohm and B.J. Hiley, published in <i>Phys. Reports</i> 144 (1987), 323-375.	
B.103	'Comments on "The Future of Humanity" '	ca 1986
	The book <i>The Future of Humanity</i> (1986) contained two dialogues between Bohm and Krishnamurti from a conference of transpersonal psychologists at Brockwood Park, Bramdean, Hampshire in 1983.	
	3pp typescript.	
B.104-B.106	'Fragmentation and wholeness', talk at the Eidgenossische Technische Hochschule, Zürich, Switzerland.	1986
	See also B.10-B.15 of the original catalogue.	
B.104	22pp duplicated typescript.	
B.105, B.106	'Fragmentierung und Ganzheit', German language version: 13pp typescript; corrected ?proof marked December 1986.	
	2 volumes.	
	Although apparently intended for publication, this does not appear in either Bohm's or the Royal Society Memoir bibliographies.	
B.107	Untitled piece written 'for the memorial of his friend Dr M. Sagenkahn'	1987
	1p typescript beginning 'In considering the relationship between the finite and the infinite'	
B.108	'My response to Georg B. Tennyson'	N.d.
2.100	4pp typescript.	11.9.
	This was written in response to Tennyson's disagreement with Bohm over the meaning of 'imagination'.	

B.109		'Some further remarks on Order for the Bellagio Conference on Theoretical Biology'	N.d.
		24pp duplicated typescript.	
B.110		'On self-deception in the individual, in groups, and in society as whole'	N.d.
		13pp typescript with manuscript corrections on first page.	
B.111		'The problem and the paradox'	N.d.
		7pp duplicated typescript.	
B.112	ā (ģ	'Consciousness and self consciousness'	N.d.
		8pp typescript.	
B.113		'Insight into measure, in the East and in the West'	N.d.
		7pp photocopy typescript.	
B.114		'The negative approach to the meaning of language'	N.d.
		1p duplicated typescript.	
B.115		Incomplete draft (lacks page 1) on the idea of order	N.d.
		Duplicated typescript paginated [1]-26.	
<u>.</u>			
B.116-B.188		PUBLISHED WORK	1951-1998
B.116		With D. Pines, 'A collective description of electron interactions. I. Magnetic interactions', <i>Phys. Rev.</i> , 82 (1951), 625-634	1951
		Photocopy.	

B.117	With D. Pines, 'A collective description of electron interactions. II. Collective vs individual particle aspects of the interactions', <i>Phys. Rev.</i> , 85 (1952), 338-353	1952
	Photocopy.	
B.118	'A suggested interpretation of the quantum theory in terms of hidden variables', 11, <i>Phys. Rev.</i> , 85 (1952), 180-193	1952
	Offprint.	
B.119	With D. Pines, 'A collective description of electron interactions. III. Coulomb interactions in a degenerate electron gas', <i>Phys. Rev.</i> , 92 (1953), 609-625	1953
	Photocopy.	
B.120	With J.P. Vigier, 'Model of the causal interpretation of quantum theory in terms of a fluid with irregular fluctuations', <i>Phys. Rev.</i> 96 (1954), 208-216.	1954
	Offprint.	
B.121	'Space-time geometry as an abstraction from "Spinor" ordering'. Not listed in bibliographies, latest bibliographical reference 1955	ca 1955
	Photocopy proof.	
B.122-B.138	'Modern Physics: a course'	?1950s
	Photocopy of typescript draft with manuscript corrections	
	17 folders.	
	This is probably a draft of a [unpublished] textbook intended for physics undergraduate students which Bohm began in Brazil. It is referred to in some letters and there was a mimeographed copy at the University of São Paulo. Information from Dr O. Freire, Jan 2008.	
B.139	<i>Causality and Chance in Modern Physics</i> . London, Routledge and Kegan Paul, 1957, new edition 1984	1984
	Preface for 1984 edition	
	5pp typescript.	

	Drafts, publications and lectures, B.83-B.192	
B.140	'A proposed explanation of quantum theory in terms of	1957
	hidden variables at a sub-quantum-mechanical level', Proceedings of the Ninth Symposium of the Colston Research Society held in the University of Bristol, April 1st- April 4th, 1957	
	Offprint.	
)		
B.141	With Y. Aharonov, 'Significance of electromagnetic potentials in the quantum theory', <i>Phys. Rev.</i> , 115 (1959), 485-491	1959
	Offprint.	
B.142	'On the relationship between methodology in scientific research and the content of scientific knowledge', <i>British Journal for the Philosophy of Science</i> 12 (1961), 103-116	1961
	Photocopy.	
B.143	'Classical and non-classical concepts in the quantum theory', <i>British Journal for the Philosophy of Science</i> 12 (1962), 265-280	1962
	Offprint.	
B.144	'Hidden variables in quantum theory', part III of <i>Radiation and High Energy Physics</i> , ed. D.R. Bates, Academic Press, 1962	1962
	Offprint.	
B.145	'Basic dyads in contemporary physics', Systematics 1 (1963), 188-202	1963
	Copy of issue of Systematics.	
B.146	With G. Carmi, 'Separation of motions of many-body systems into dynamically independent parts by projection onto equilibrium varieties in phase space I and II, <i>Phys. Rev.</i> , 133 (1964), A319-A350	1964
	Offprints.	

B.147

'On the problem of truth and understanding in science', in ed. M. Bunge *The Critical Approach to Science and Philosophy*, (1964), 212-223. Not listed in bibliographies.

Photocopy.

B.148 'Problems in the basic concepts of physics', published in 1964 commemoration volume to Satyendranath Bose, Calcutta (1964)

Article found torn from original volume.

This is a different version of Bohm's inaugural lecture of 1963 (see A.124 in the original catalogue).

B.149

'Space, time and the quantum theory understood in terms of discrete structural process', *Proc. of the Int. Conf. on Elementary Particles*, Kyoto, Japan, 1965, 252-286

Offprint.

This is the published version of the draft at B.1 of the original catalogue.

B.150

'A proposed topological formulation of the quantum theory', in ed. I.J. Good, *The Scientist Speculates*, New York, 1965, 302-314

12pp typescript draft; offprint.

B.151

With J. Bub, 'A proposed solution of the measurement problem in quantum mechanics by a hidden variable theory, *Rev. Mod. Phys.*, 38 (1966), 435-469, and with J. Bub, 'On refutation of the proof by Jauch and Piron that hidden variables can be excluded in quantum mechanics', *Rev. Mod. Phys.*, 38 (1966), 470-475.

Offprints.

B.152

With B. Salt, 'Collective treatment of liquid helium', *Rev. Mod. Phys.*, 39 (1967), 894-910. Not listed in bibliographies.

Offprint.

1964

1965

1965

1966

1...

1967

	Drafts, publications and lectures, B.83-B.192	
1	This is the published version of the draft at B.5-B.9 of the original catalogue.	
D 450	On Creativity' / canada 1 (1069) 127 140	1000
B.153	'On Creativity', <i>Leonardo</i> 1 (1968), 137-149	1968
	Offprint.	
B.154	' "Hidden Variable" theories as a step towards a new language structure for physics', Contemporary Physics II (1969), International Atomic Energy Agency, Vienna	1969
	13pp duplicated typescript; offprint.	
B.155	'Fragmentation in science and in society', <i>Impact of Science on Society</i> 20 (1970), 159-169	1970
	13pp duplicated typescript; offprint.	
B.156	'Some remarks on the notion of order and further remarks on order', in ed. C.H. Waddington, <i>Towards a Theoretical</i> <i>Biology</i> , vol. 2, Chicago (1970), 18-59	1970
5	Photocopy.	
B.157	'On the role of hidden variables in the fundamental structure of physics, in ed. T. Bastin, <i>Quantum Theory and Beyond</i> , Cambridge, 1971, 95-116	1971
	Duplicated typescript paginated 32-79 + references.	
B.158	'Quantum theory as an indication of a new order in physics. Part A. The development of new orders as shown through the history of physics', <i>Foundations of Physics</i> 1 (1971), 359-371, and 'Part B. Implicate and explicate order in physical law', <i>Foundations of Physics</i> 3 (1973), 139-168	1971, 1973
	Offprints.	
		10-2
B.159	'Indication of a new order in physics', in ed. T. Shanin, <i>The Rules of the Game</i> , London, 1972, 249-275	1972
		1

	Drafts, publications and lectures, B.83-B.192	
<i>I</i>	Copy of article.	
B.159A	'On the subjectivity and objectivity of knowledge', in ed. J. Lewis, <i>Beyond Chance and Necessity</i> , 1974, 121-130	1974
	Photocopy.	
B.160	With B.J. Hiley, 'On intuitive understanding of nonlocality as implied by quantum theory', <i>Foundations of Physics</i> 5 (1975), 93-109	1975
	Photocopy.	
B.161	'On creation of a deeper insight into what may underlie quantum physical law', in eds. M. Flato <i>et al</i> , <i>Quantum</i> <i>Mechanics, Determinism, Casuality and Particles</i> , Dordrecht, 1976, 1-10	1976
	Offprint.	
B.162	'Imagination, fancy, insight and reason in the process of thought', in ed. S. Sugerman, <i>Evolution of Consciousness.</i> <i>Studies in Polarity in honour of Owen Barfield</i> , Middletown, CT, 1976	1976
	24pp duplicated typescript.	
B.163	'The implicate or enfolded order: a new order for physics', in ed. D.R. Griffin and J.B. Cobb, <i>Mind in Nature: Essays</i> <i>on the Interface of Science and Philosophy</i> , Washington D.C., 1977, 37-42	1977
8	Copy of Mind in Nature.	
B.164	'Heisenberg's contribution to physics', in eds W.C. Price and S.S. Chissick, <i>The Uncertainty Principle and</i> <i>Foundations of Quantum Mechanics</i> , London, 1977	1977
	Offprint.	
B.165	'On insight and its significance for science, education, and	1979

	Drafts, publications and lectures, B.83-B.192	
	values, <i>Teachers' College Record</i> 80, February 1979, 403- 418	
	Offprint.	
B.166-B.169	Wholeness and the Implicate Order, London, 1980	1980, 1994
B.166-B.168	Typescript draft of chapter 7 (final chapter), 'The enfolding- unfolding universe and consciousness'	1980
	3 folders.	
B.169	Book review, author not identified	1980, 1994
	5pp photocopy typescript.	
	Folder also contains request for copyright permission to publish Chinese version, 1994.	
	This differs from that at B.79 of the original catalogue.	
B.170	With B.J. Hiley, 'The de Broglie pilot wave theory and the further development of new insights arising out of it', <i>Foundations of Physics</i> 12 (1982), 1001-1016	1982
	Offprint.	
B.171	'Response to Schindler's critique of my Wholeness and the Implicate Order', Int. Phil. Quarterly 22 (1982), 329-339	1982
	Offprint.	
	See also B.100, C.101-C.104.	
B.172	'Religion as wholeness and the problem of fragmentation', Centre Space Occasional Paper no.2 (January 1984)	1984
	Offprint.	
B.173	'Fragmentation and wholeness in religion and in science', <i>Zygon</i> 20 (1985)	1985

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1...

Proof copy.

B.174

'Hidden variables and the implicate order', *Zygon* 20 1985 (1985), 111-124

Proof copy; offprint.

B.175 'Response to Conference papers on "David Bohm's 1985 Implicate Order: physics, philosophy, and theology" ', Zygon 20 (1985), 219-220

3pp typescript; photocopy.

B.176

'Time, the implicate order and pre-space', in ed. D.R. Griffen, *Physics and the Ultimate Significance of Time*, New York, 1986, 172-208

Photocopy.

B.177

'The implicate order: a new approach to the nature of reality', in ed. D.L. Schindler, *Beyond Mechanism: the Universe in Recent Physics and Catholic Thought*, Lantham, MD, 1986, 13-37.

Photocopy ?of preprint.

B.178

'A new theory of the relationship of mind and matter', *Journal of the American Society for Psychical Research* 80 (1986), 113-135

Offprint.

 B.179
 'An ontological foundation for the quantum theory'
 1987

 21pp typescript draft.
 This is a corrected version of B.19 in the original catalogue.

B.180, B.181With B.J. Hiley, 'An ontological foundation for the quantum
theory. I. Non-relativistic particle systems', *Physics Reports*
144 (1987), 323-348, and with B.J. Hiley and P.N.1987

1986

1986

1986

D.J. Bohm (Supplemer NCUACS 156/6/07	nt)	26
	Drafts, publications and lectures, B.83-B.192	
	Kaloyerou, 'II. A causal interpretation of quantum fields', <i>Physics Reports</i> 144 (1987), 349-375	
	Photocopy.	
	2 folders.	
B.182	With B.J. Hiley, 'Nonlocality and the Einstein-Podolsky- Rosen experiment as understood through the quantum- potential approach', in ed. F. Selleri, <i>Quantum Mechanics</i> <i>versus Local Realism</i> , Chicago, 1988, 235-255	1988
	Offprint	
B.183	'A realist view of quantum theory', in ed. A. van der Merwe et al, Microphysical Reality and Quantum Formalism, Dordrecht, 1988, 3-18	1988
	Offprint.	
B.184	With B.J. Hiley, 'Non-locality and locality in the stochastic interpretation of quantum mechanics', <i>Physics Reports</i> 172 (1989), 93-122. Not listed in bibliographies	1989
	Photocopy.	
		4.
B.185	'A new theory of the relationship of mind and matter', <i>Phil. Psych.</i> 3 (1990), 271-286	1990
	31pp typescript + references	
	This is a typescript draft of paper at B.75 of the original catalogue.	
B.186, B.187	'Cosmos, Matter, Life and Consciousness', in ed. D. Lorrimer, <i>The Spirit of Science. From Experiment to</i> <i>Experience</i> , Edinburgh 1998. Not listed in bibliographies	1983, 1998
	This was posthumously published work was a lecture originally given at the '1983 Mystics and Scientists conference'.	
B.186	22pp typescript.	1983

2	Drafts, publications and lectures, B.83-B.192	
B.187	Photocopy of published article.	1998
B.188	Photocopies of book reviews of Bohm's work: On <i>Creativity, Causality and Chance</i> 9th edition, <i>The</i> <i>Undivided Universe</i>	1990s
B.189-B.191	REVIEWS	ca 1983, 1984, n.d.
B.189	Book review of 'Paul Davies: GOD AND THE NEW PHYSICS'	ca 1983
	7pp typescript.	
B.190	'Comments on "Is the Einstein Podolsky Rosen Paradox demanded by quantum theory" ' by O. Piccioni	1984
	5pp typescript; copies of letters.	
B.191	'Comments on Creation out of Everything by David and Marjorie Haight'	N.d.
	2pp typescript.	
B.192	MEETINGS	1971, 1979
	Notices for meetings at which Bohm was to be a speaker:	

'An inquiry into the implication of laser holography', Institute of Contemporary Arts, London, 1 July 1971; Sufi Order colloquium on Coevolution of Science and Spirit, New York, USA, 13-14 October 1979. 27

SECTION C	CORRESPONDENCE, C.93-C.129	ca 1950- 2004
C.93	Bennett, J.G.	[1962-1964],
	Spiral bound volume of correspondence between Bohm and J.G. Bennett, covering 1962-1964, compiled by Anthony Blake, 2004 (with covering letter from Blake).	2004
	The correspondence chiefly relates to ideas put forward by the philosopher J.G. Bennett in his four volume book <i>The</i> <i>Dramatic Universe</i> , heavily influenced by G.I. Gurdjieff.	
C.94	Bura, P.	1979
	Letter re visit by Bohm to Canada.	
C.95	Hiley, B.J.	1987
	Letter from Bohm (in Israel) to Hiley commenting on <i>The Quantum World</i> by J.C. Polkinghorne.	
C.96	Kahler, A.	ca 1951, 1953, 1984
	Three letters from Bohm to Kahler.	,
	That ca 1951, written from Brazil, is on his impressions of the Physics Department of the University of Sao Paulo and his need in leave Brazil ('For I have no one to talk to, and nothing to do in my spare time'); 1953 letter refers to his plans for the future, he writes of moving to Britain or Israel; 1984 letter refers to correspondence between Bohm and Einstein.	
	Alice ('Lili') Kahler (née Loewy) was the mother of H.M. Loewy (see C.97). The family home at Princeton was the focus for a circle of intellectuals, writers and artists with which Bohm was associated.	
	This material is additional to correspondence at C.28 of the original catalogue.	
C.97	Loewy, H.M.	ca 1950, 1993
	Correspondence from Bohm to Loewy, ca 1950, refers to his troubles with the Un-American Activities Committee, views on American society and future plans. Letter of 1993 to Loewy from F.D. Peat refers to meeting to talk about Bohm ca 1950.	1993
		0.0000

Correspondence, C.93-C.129

<i>I</i>	Folder also contains some empty envelopes indicating Bohm continued to write from Brazil.	
	Hanna Loewy, the daughter of Lili Kahler (see C.96), was a member of the circle of intellectuals, writers and artists that met at her family home.	
	This material is additional to correspondence at C.16, C.37-C.41 of the original catalogue.	
C.98	Parrish, H.	1990, 1992
	Copies of letters to Parrish.	
C.99	Pauli, W.	[1951]
	This a photocopy of the draft of the letter to Bohm at C.44 of the original catalogue.	
C.100	Phillips, M.	[1966, 1975, 1987], 1992,
	Photocopies of three letters from Bohm to Phillips; letters from Phillips to Saral Bohm (widow) and S. Bohm to Phillips re the Bohm archive.	1996
	Bohm's letter of 1966 explains his views on 'real enjoyment' and 'self-indulgent pleasure'.	
	This is additional to correspondence at C.46-C.50 of the original catalogue.	
C.101-C.104	Schindler, D.L.	[1983], 1998
	Photocopies and typescript transcripts of correspondence between Bohm and Schindler. With 1998 letter to B.J. Hiley covering the correspondence.	
	4 folders.	
	Schindler was editor of <i>Communio</i> , a Roman Catholic theological journal and Gagnon Professor of Fundamental Theology at the John Paul II Institute for the Study of Marriage and the Family in Washington, D.C.	
	The correspondence between them arose following Schindler's review of Bohm's <i>Wholeness and the Implicate</i>	

Correspondence, C.93-C.129

Order (see B.100 'Preliminary reply to Schindler's three questions arising from Wholeness and the Implicate Order' and 'Further remarks on Schindler's review of my book', and B.171 'Response to Schindler's Critique of my Wholeness and the Implicate Order', *Int. Phil. Quarterly*, vol. 22, no. 4, 1982, 329).

C.105	Stapp, H.	1987
	Letter to Bohm on his interpretations of quantum theory.	
C.106-C.109	Wilhelm, F.	1977-1983
	Correspondence between Bohm and Wilhelm.	
	Fritz Wilhelm, author of <i>Dancing with Maya</i> , met Bohm and J. Krishnamurti in 1975. He was, for a time, a follower of Krishnamurti although later was critical of him and his approach, and the correspondence includes some of these criticisms.	
C.106	'FRITZ - Letters to BOHM 79/80'	[1979-1980]
	Contents of envelope so inscribed. The correspondence (photocopies) is paginated 1-55.	
C.107-C.108	'BOHM letters to FRITZ 77/83'	
	Contents of envelope so inscribed. The correspondence (including transcripts and photocopies) is paginated 1-119.	
	2 folders.	
C.109	Other correspondence	1977-1979
	Chiefly correspondence from Bohm to Wilhelm 1978; also includes transcripts of letters from Wilhelm to J. Krishnamurti, 1979.	
C.110-C.114	Woolfson, Y.	[1957-?1980]
	Yitzhak (or Isidore) Woolfson was Bohm's brother-in-law.	1

Correspondence, C.93-C.129

Typescript transcripts of 24 (numbered) letters from Bohm to Woolfson. The letters discuss individuality, the nature of understanding, memory, and relations with J. Krishnamurti as well as views on the Arab-Israeli conflict and personal news.

5 folders.

C.115

1...

Yevick, G.

early 1950s.

Photocopy of letter to Yevick from Bohm (in Brazil). In the letter Bohm discusses ether, relativity and quantum theory.

George Yevick was a physicist based at the Stevens Institute of Technology, the husband of Miriam Yevick (see C.116-C.127).

C.116-C.127

Yevick, M.L.

Miriam Yevick was a mathematician based at the University of Maryland (later Rutgers State University, New Jersey), the wife of George Yevick (see C.115).

C.116-C.126

Photocopied manuscript correspondence

Photocopies of manuscript letters from Bohm (in Brazil) to Yevick. The letters 1951-mid 1953 form a sequence 1-49 (though not all letters are actually numbered and some appear to be missing), later letters are unnumbered. Some are incomplete and some undated (C.126).

11 folders.

The extensive correspondence covers Bohm's experiences in Brazil, his future plans, the state of the world, as well as the development of his ideas in quantum theory.

C.127

Other correspondence

Photocopy of manuscript and typescript letter from Yevick to Bohm, including mathematical calculations, 23 October 1951; typescript letter from Yevick to Bohm, 11 December 1951; correspondence from Yevick *re* her correspondence with Bohm, 1995.

1951, 1995

1951-[1954], 1995

[1951-1954]

2

Correspondence, C.93-C.129

C.128, C.129

1979

Three letters from Bohm enclosing drafts on 'Values'.

All photocopies.

Unidentified

2 folders.

SECTION D	NON-TEXTUAL MATERIAL, D.1-D.20	1981-1993
D.1	Audio cassette tape labelled 'Commentary on "JOE" session tape with Gregg 5/28/81 (1 of 6 tapes in series)'	1981
	There are two speakers. The principal speaker introduces a programme in the form of a series of tapes that is presented as a one session cure for neuroses. 'Joe' is a client on whom the programme was trialed.	
	The further five audio cassette tapes were not found.	
D.2-D.5	Four audio cassette tapes of talks for Radio France in series 'Recherche et pensées contemp'	1982
	Bohm is talking on his ideas.	
	Bohm speaks in English, with a French translation overplayed.	
D.2	'12/6/82' 1	
D.3	'12/6/82' 2	
D.4	'19/6/82' 1	
D.5	'19/6/82' 2	
D.6, D.7	Two audio cassette tapes of 'Discussion between J. Krishnamurti and D. Bohm THE FUTURE OF MANKIND'	1983
	This is a tape-recording of discussions presented at A.24, A.25 of the original catalogue.	
D.6	'11/6/83'	
D.7	'20/6/83'	

Non-textual material, D.1-D.20

D.8	CD-RW of uncorrected transcript of interview with M.F. 1986-1987 Wilkins 1986-1987
	The CD has two files: 'BohmWilkins Tapes 1-8' and 'BohmWilkins Tapes 9-16'.
D.9-D.20	Audio cassette tapes of proceedings of 'The Science of 1993 David Bohm' Memorial Meeting at Birkbeck College London, 5-6 May 1993
	The first two tapes record the opening talks of the two days of the meeting, thereafter they are presented in alphabetical order by speaker.
	See also A.17 of the original catalogue.
D.9	'Basil'
	B.J. Hiley's opening remarks and opening talk of the meeting.
D.10	'Basil Hiley David Peat Goldstein'
	Opening talks of the second day's proceedings.
D.11	'Yakir Aharanov'
D.12	'Mary Cadogan. Suzette van Hansen-Drücken'
	ž.
D.13	'Chris Dewdney'
D.14	'Brian Goodwin'
D.15	'Michael Green'
D.16	'Chris Isham'

Non-textual material, D.1-D.20

D.18	'Rupert Sheldrake. Mark Edwards'	
D.19	'Jean-Pierre Vigier'	
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Second supplementary catalogue of the papers and correspondence of

David Joseph Bohm FRS

(1917-1992)

by Timothy E. Powell and Peter Harper NCUACS catalogue no. 174/5/09 D.J. Bohm (Second supplement) NCUACS 174/5/09

Title:

Second supplementary catalogue of the papers and correspondence of David Joseph Bohm FRS (1917-1992), physicist

Compiled by: Timothy E. Powell an	Peter Harper
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Description level: SubSection

Date of material: 1940s-ca 1951, 1954, 1995

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INTRODUCTION

For an outline of the career of David Bohm see the introduction to the 'Catalogue of the papers and correspondence of David Joseph Bohm' compiled in 1997 (NCUACS catalogue no. 66/4/97), hereafter referred to as the original catalogue. A longer account is to be found in B.J. Hiley, 'David Joseph Bohm 20 December 1917-27 October 1992', *Biographical Memoirs of Fellows of the Royal Society* 43 (1997), 105-131, a copy of which is at A.133 of the first supplement compiled in 2007 (NCUACS catalogue no. 156/6/07).

PROVENANCE

The material was received from Dr Richard F. Post via the American Institute of Physics in January 2008.

DESCRIPTION OF THE COLLECTION

This material is papers of David Bohm that were passed to Dr Post, then of the Lawrence Livermore National Laboratory, possibly via R.K. Wakerling in 1954.

The original folder (1954) is retained at B.193. Subsequently the notes were divided into eight numbered folders and this arrangement has been retained as the basis for the organisation of the material, as it may bear the vestige of a previous, original arrangement.

The material is chiefly manuscript drafts on aspects of nuclear physics by Bohm. The great bulk is undated but a few items can be assigned to the late 1940s, prior to his departure from the USA in 1951. The material may have been assembled by Bohm for his lectures in physics as assistant professor at Princeton University and/or in drafting his 1951 book *Quantum Theory*. It thus predates the drafts and papers listed in the first two catalogues. The material has been assigned to section B of the Bohm archive, Drafts, publications and lectures, and numbered to carry on in sequence.

T.E. Powell Bath 2009

SECTION B	DRAFTS, PUBLICATIONS AND LECTURES	late 1940s, 1954, 1995, n.d.
	The material presented here is chiefly manuscript drafts on aspects of nuclear physics by Bohm. The material may have been assembled by him for his lectures in physics as assistant professor at Princeton University and/or in drafting his 1951 book <i>Quantum Theory</i> .	
B.193-B.262	DRAFTS ON NUCLEAR PHYSICS	
B.193	Original folder	1954
	Inscribed 'David Bohm' and 'To: R.F. Post Livermore From: R.K. Wakerling Info Div Berkeley 10-14-54'.	
B.194	Folder '1'	N.d., 1995
	2pp manuscript note titled 'Drain diffusion in a magnetic field'.	
	The note was within an envelope inscribed 'Bohm notes ('Bohm Diffusion' derivation)'. Also within was an order for photographic copy made by Post, 1995.	
D 405 D 202	Eabler (2)	noot 1011
B.195-B.203	Folder '2'	post 1944, N.d.
	Divided into nine for ease of reference. B.200-B.202 are three parts of a longer work.	
B.195	'Plasma oscillations, their nature, modes of excitation, and their relation to fluctuations in a perfect gas'	
	Manuscript.	
B.196	'Paradox of the surface wave'	
	Manuscript.	

B.197	'Emission or collection of electrons of definite velocity'	
	Manuscript.	
B.198	'Minimum ionic kinetic energy for a stable sheath'	
	Manuscript + figure.	
B.199	'Neglect of thermal neutrons'	
	Manuscript.	
B.200	'Part 3' 'Interaction of plasma oscillations with free particle motion. Unified picture of plasma behavior'	
	Manuscript.	
B.201	'Part 4 Effect of collisions: self excitation' Manuscript.	
D 000		
B.202	'Part 5. Boundary conditions' Manuscript.	
B.203	'Limiting stable current in electron beams in the presence	post 1944
	of ions' by J.R. Pierce Typescript paginated 1-18. Latest bibliographical reference 1944.	
	John Robinson Pierce was based at Bell Telephone Laboratories, Murray Hill, New Jersey, USA.	
B.204-B.213	Folder '3'	N.d.
B.204	'[Beta] decay'	

B.205	'Solution of integral equation'
	Manuscript.
B.206	'Positive ion motion'
	Manuscript.
B.207	'Theory of sheath formation'
	Manuscript.
B.208	'Radiation of plasma waves'
	Manuscript.
B.209	'Self-excited vibrations'
	Manuscript.
B.210	'II. Theory of fluctuations in a plasma'
	Manuscript.
B.211	'III Time variation - dynamics of fluctuation'
	Manuscript.
B.212	'IV Force on electrons due to fluctuating electric fields:
	many body collisions'
	Manuscript.
B.213	'Outline' and draft paper beginning 'I Process of ionization'
	Manuscript.
	Also includes 1p manuscript 'Case I. Positive ions fixed'

B.214-B.219	Folder '4'	N.d.
B.214	'On the finite value of the electron self energy'	
	Manuscript paginated 1-24 with abstract.	
	One bibliographical reference, 1939. Not listed in bibliography in the Royal Society memoir of Bohm.	
B.215, B.216	Typescript draft ?on scattering theory, with extensive manuscript annotation.	
	Paginated 4-12 and [13]-44.	
	2 folders.	
B.217	'Multiple scattering'	
	Manuscript.	
B.218	'Ion-electron plasma oscillations'	
	Manuscript.	
B.219	'Part 2. Calculation of contamination in terms of cross- section'	
	Manuscript.	
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B.220	'Plasma oscillations; their nature, modes of excitation, and evolution from random fluctuations in a perfect gas'	
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B.221	'Math. theory of plasma oscillations'	
	Manuscript.	

B.222	'Time variation - dynamics of fluctuation - plasma oscillations'
	Manuscript.
B.223	'Theory of probe in a magnetic field'
	Manuscript paginated 1-20.
B.224	'Effect of initial velocities'
	Manuscript.
	Final pages (blank) are on verso of 'Steady State when electrons of definite velocity are emitted'.
B.225	'Theory of Steady State' and 'Theory of Steady State. Summary of theory of electron and ion diffusion in electric and magnetic fields'
	Manuscript outline; manuscript.
B.226	'Sheath formation' and 'Formation of sheath - plasma approach'
	Manuscripts.
B.227	'Formulation of problem. Boundary conditions'
	Manuscript.
5 000	
B.228	'Small J block Strong field' and 'Small J block Weak field'
	Manuscripts.
B.229	'Solution: one dimension'
	Manuscript.

'II Mechanism of electron diffusion'	
Manuscript.	
'III Process of establishing steady state oscillations'	
Manuscript.	
'Part 2 Electron in a magnetic field'	
Manuscript.	
Folder '6'	?1949, n.d.
'Theory of fluctuations in a plasma'	?1949
Manuscript. See also B.234, B.240.	
With letter to Bohm from Terrell [Terrell Leslie Hill], from the University of Rochester Department of Chemistry, 'Oct. 10 ?[1949]', found clipped to manuscript.	
'Theory of fluctuations in a plasma'	
Typescript paginated 1-26. The draft has spaces for formulae and figures to be added by hand. See also B.233, B.240.	
'Fluctuation theory of solid-liquid-gas transitions'	
Typescript paginated 1-13. The draft has spaces for formulae and figures to be added by hand.	
'Statistics'	
Manuscript.	
	Manuscript. 'III Process of establishing steady state oscillations' Manuscript. 'Part 2 Electron in a magnetic field' Manuscript. Folder '6' 'Ineory of fluctuations in a plasma' Manuscript. See also B.234, B.240. 'Vit letter to Bohm from Terrell [Terrell Leslie Hill], from the University of Rochester Department of Chemistry, 'Oct. 0'(1949)', found clipped to manuscript. 'Ineory of fluctuations in a plasma' 'Interval' 'Ineory of fluctuations in a plasma' 'Interval' 'Ineory of fluctuations in a plasma' 'Ineory of glasma'

B.237	'Comparison with experiment'
	Manuscript.
5 000	
B.238	'Electron diffusion in the steady state'
	Manuscript.
B.239	'Electron diffusion in a magnetic field' and 'Sec. II: Mechanism of electron diffusion in a magnetic field'
	Manuscripts.
B.240-B.246	Folder '7' 1946, ca
	1947, n.d.
B.240	'Theory of fluctuations in a plasma'
	Typescript paginated 1-17. See also B.233, B.234.
B.241	'Theory of the synchrotron' 1946
	Typescript with manuscript additions and corrections paginated 1-21 + manuscript references. Dated '1/22/46'
B.242	'On the neutron-proton scattering cross-section' by Bohm ca 1947 and C. Richman
	Typescript paginated 1-15.
	Published as 'On the neutron-proton cross-section', <i>Phys. Rev.</i> vol 71 (1947), 567-572. No. 5 in the bibliography in the Royal Society memoir of Bohm.
B.243	'Recombination in plasma'
	Manuscript with undated covering note to Dr [?H.S.W.] Massey.

B.244	'Equations of motion'	
	Manuscript paginated 1-13.	
B.245	'Classical vs. Born approximation'	
	Manuscript paginated 1-7.	
B.246	Miscellaneous shorter manuscript notes	
B.247-B.262	Folder '8'	N.d.
B.247	'Synchrotron (and betatron) theory for orbits'	
	Manuscript paginated 1-15.	
B.248	'Effect of space variation of magnetic field'	
	Manuscript paginated 1-27.	
B.249	'Electron optical equation for U'	
	Manuscript.	
B.250	'Theory of sideband production'	
	Manuscript.	
B.251	'Self excitation - self damping	
	Manuscript.	
B.252	'Fluctuation theory of solid-liquid-gas transitions'	
	Manuscript paginated 1-[12].	

B.253	'Development of Dirac's formalism'
	Manuscript.
B.254	'Space charge limitations on thin beams'
	Manuscript.
B.255	'Phase lag in dees'
	Manuscript.
B.256	'Plasma'
	Manuscript.
B.257	'Phase equation for variable frequency'
	Manuscript.
B.258	'II Complete theory of pure oscillations'
	Manuscript paginated 46-53.
B.259	'Excitation of plasma oscillations'
	Manuscript.
B.260	'Introduction'
	Manuscript beginning, 'Probe characteristics commonly used to investigate plasma conditions, because they are
	determined in part by such conditions'. Paginated 1-19.
B.261	Miscellaneous shorter manuscript notes

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Drafts, publications and lectures, B.193-B.262

B.262

Untitled calculation and graphs

Two sheets bear the initials 'I.D.S.'