

Fred Schwartz (ed)
Scientific Thought and Social Reality
Psychological Issue Vol 8 #4
Monograph 32 1974
Fred Schwartz

Appendix I

An Annotated Bibliography of Michael Polanyi's Publications on Society, Economics, and Philosophy

Where the same item was published more than once, all subsequent versions, with notes about any differences, have been included with the first. This bibliography does not include the Hungarian versions of some of his articles which were given as radio talks and have since been published in *Polanyiana*, the journal of the (Hungarian) Michael Polanyi Liberal Philosophical Society.

Michael Polanyi's books are referred to by means of the usual abbreviations, and 'Schwarz' refers to the collection of Polanyi's papers, *Science, Thought and Reality*, ed. F. Schwarz (*Psychological Issues*, VIII 4, Monograph 32, New York, International Universities Press, 1970). *Tradition and Discovery* is the journal of the (American) Polanyi Society.

I have used the following bibliographies: R. Gelwick, in *Intellect and Hope* (ed. T. Langford and W. Poteat, Durham (NC), Duke U.P., 1968); R. Brownhill (cyclostyled, 1976); E.P. Wigner and R. Hodgkin, in *Biographical Memoirs of the Fellows of the Royal Society* (Vol. 23, Dec. 1977) which also contains a complete list of Polanyi's scientific papers.

I have personally checked every item, except No.s [40] and [122], of which I have not been able to obtain copies.

1. A békeszerzőkhöz (*To the peacemakers*), Budapest 1917, 15pp. Also in: *Husadik Század* (*Twentieth Century*), 1917, No. 2, pp. 165-176; *Polanyiana* I 1, Autumn 1991, pp. 15-23.
2. 'Uj szkepticizmus' ('New scepticism'), *Szabadgondolat* (*Free Thought*), 1, Feb. 1919, pp. 53-6. Also in: *Polanyiana* I 1, Autumn 1991, pp. 24-S.
3. 'USSR Economics—fundamental data, system and spirit', *The Manchester School of Economic and Social Studies*, VI, Nov. 1935, pp. 67-89. Also as: *USSR Economics*, Manchester, Manchester U.P., 1936; 'Soviet Economy: Fact and Theory', in *The Contempt of Freedom* [12], pp. 61-95, with the additions of n.1 p. 60 and n.2, p. 73.

4. 'The struggle between truth and propaganda', review of *Soviet Communism: A New Civilisation* by S. and B. Webb, *The Manchester School of Economic and Social Studies*, VII, 1936, pp. 105–118. Also in: *The Contempt of Freedom* [12], pp. 96–116.
5. 'The value of the inexact', (letter) *Philosophy of Science*, 3, April 1936, pp. 233–34. Also in: *Tradition and Discovery*, XVIII 3, 1992, pp. 35–6.
6. 'Az Orosz forradalom tanulságai' ('The Russian Revolution'), *Századunk*, 1937, pp. 160–70. Also in: *Polanyiana*, I 1, Autumn 1991, pp. 27–37. (A shortened version of a talk on the Russian Revolution, 1917–30, to a joint meeting of the Manchester branches of the Historical and Geographical Associations, in their 1936/7 sessions. The original paper is in the Polanyi Collection of the Joseph Regenstein Library, University of Chicago, Box 25 Folder 12.)
7. 'Congrès du palais de la découverte', *Nature*, 140, Oct. 23rd, 1937, p. 710.
8. *An outline of the working of money*, Manchester, The Manchester Statistical Society, 1938. (A commentary to accompany the diagrammatic film, *Money*: see [13] and [14].)
9. 'The settling down of capital and the trade cycle', *The Manchester School of Economic and Social Studies*, IX No. 2, Nov. 1938, pp. 153–169.
10. 'The rights and duties of science', a review of J. Bernal's *The Social Function of Science*, *The Manchester School of Economic and Social Studies*, X, Oct. 1939, pp. 175–193. Also in: *The Contempt of Freedom* [12], pp. 1–26; Occasional Pamphlet No. 2, Society for Freedom in Science, 1945, 18pp.
11. 'Science in the USSR', (a letter) *New Statesman*, XIX, Feb. 10th, 1940, p. 174.
12. *The Contempt of Freedom*, London, Watts, 1940 (Arno Press, New York, 1975). Contents: items [3], [4], [10] and 'Collectivist Planning', pp. 27–60 (a lecture given to the South Place Ethical Society, London, April 1940).
13. 'Economics on the screen', *Documentary Newsletter*, Aug. 1940, pp. 5–6.
14. 'Economics by motion symbols', *Review of Economic Studies*, VIII, Oct. 1940, pp. 1–19. (On the film, *Unemployment and Money*, an expanded version of *Money*.)
15. 'Cultural significance of science', (a letter) *Nature*, CXLVII, Jan. 25th, 1941, p. 19.
16. 'The growth of thought in society', *Economica*, VIII, Nov. 1941, 428–56. The section, 'Two kinds of order' (pp. 431–3), was included in 'Planning and spontaneous order' [50], pp. 238–40, and then in 'Economic and intellectual liberties' [53]. When both of these articles were reprinted in *LL*, 'Two kinds of order' was omitted from the former and retained in the later.

- The section 'Corporate order' in 'Planning and spontaneous order', pp. 240–3, has the same ideas in the same order but not in the same words, as the corresponding section, pp. 43 1–5, of 'The growth of thought in society'. Four continuous paragraphs from pp. 444–5 were included as n. 1, pp. 442–3 in 'Economic and intellectual liberties' and consequently as n.1, pp. 194–5, in Chap. 10 of *LL*.
- The paragraphs, pp. 450–4, referring to J.G. Crowther's *The Social Relations of Science*, were added to 'The planning of science' [31] when that was reprinted as *LL* Chap. 5.
17. 'Revaluation of science', (a letter) *Manchester Guardian*, Nov. 7th, 1942, p. 6.
 18. 'Jewish problems', *Political Quarterly*, XIV, Jan.–Mar. 1943, pp. 33–45.
 19. 'Autonomy of science', *Memoirs and Proceedings of the Manchester Literary and Philosophical Society*, LXXXV, Feb. 1943, pp. 19–38. Also in: *Scientific Monthly*, Feb. 1945, pp. 141–150; *LL*, as Chap. 4 'Self-Government of Science'; Schwarz.
 20. 'Research and planning', (a letter) *Nature*, CLII, Aug. 21st 1943, pp. 217–8.
 21. 'The Hungarian opposition', (a letter) *New Statesman*, XXVI, Sept. 25th 1943, 216–7.
 22. 'The English and the Continent', *Political Quarterly*, XIV, Oct.–Dec. 1943, pp. 372–81. Also as: 'England and the Continent', in *Fortune*, XXXIX, May 1944, pp. 155–7, 178, 182, 185.
 23. 'Science—its reality and freedom', *The Nineteenth Century and After*, CXXXV, Feb. 1944, pp. 78–83.
 24. 'The Socialist error', a review of Hayek's *Road to Serfdom*, *The Spectator*, Mar. 31st, 1944, p. 293.
 25. 'Science and the decline of freedom', *The Listener*, June 1st, 1944, p. 599.
 26. 'Reflections on John Dalton', *Manchester Guardian*, July 22nd, 1944, pp. 4 and 6. Also in: as 'John Dalton's theory', *L. Farkas Memorial Volume*, ed. A. Farkas and E.P. Wigner, Jerusalem, Research Council of Israel, 1952, pp. 13–15.
 27. 'Patent reform', *Review of Economic Studies*, XI, Summer 1944, pp. 61–76.
 28. 'Science and the modern crisis', *Memoirs and Proceedings of the Manchester Literary and Philosophical Society*, LXXXVI, No. 6, June 1945, pp. 107–16. Also in: Schwarz.
 29. 'Reform of the patent law in Britain', (a letter) *Nature*, CLVI, July 14th 1945, p. 54.
 30. *Full Employment and Free Trade*, Cambridge, CUP, 1945, 155 pages. Second edition, 159 pages, 1948. Includes [44/1] as Appendix IV.

31. 'The planning of science', *Political Quarterly*, XVI, Oct-Dec. 1945, pp. 316-26. Also as: Occasional Pamphlet No. 4, Society for Freedom in Science, 1946, 14 pages; *LL* Chap. 5, with additional paragraphs from 'The growth of thought in society' (see note to [16]).
- 32a. 'Value of pure science', *Time and Tide*, 26, No. 50, Dec. 1945, pp. 1054-5. An abridged version of a paper read at a conference on 'Scientific Research and Industrial Planning', Dec. 7-8th 1945, organised by the Division for the Social and International Relations of Science of the British Association for the Advancement of Science. Also in: *LL* as Chap. 1; Schwarz.
- 32b. 'The social message of pure science', *The Advancement of Science*, April 1946, pp. 288-90. The full version of 32a.
33. 'Soviets and capitalism: What is the difference?', *Time and Tide*, April 6th 1946, p. 317.
34. 'Social capitalism', *Time and Tide*, April 13, 1946, pp. 341-2.
35. 'Can science bring peace?', *The Listener*, XXXV 902, April 25th, 1946, pp. 531-2. Also in: *The Challenge of Our Time*, ed. G. Wundham-Goldie, London, Percival Marshall, 1948.
36. 'Rededication of science in Germany', *Nature*, CLVIII, July 13th, 1946, p. 66.
37. 'Why profits?', *The Plain View*, No. 8, July 1946, pp. 197-208. Also in: *Humanitas* (Manchester), I No. 2, Autumn 1946, pp. 4-13; As 'Profits and polycentricity', *LL* Chap. 9.
38. 'Policy of atomic science', *Time and Tide*, Aug. 10th, 1946, p. 749.
39. 'Science: academic and industrial', *Universities Quarterly*, Vol. 2 No. 1, Nov. 1947, pp. 71-76. (No connection with [102]).
40. 'Free trade through full employment', *University Liberal (Oxford Guardian)*, III, Dec. 1946, pp. 1-2.
- 41a. 'The foundations of freedom in science', *Bulletin of the Atomic Scientists*, Vol. 2 No's 11 & 12, Dec. 1st. 1946, pp. 6-7; (A speech given at the Bicentennial Celebration of Princeton University.) Also in: *Physical Science and Human Values*, ed. E.P. Wigner, Princeton U.P., 1947, pp. 24-32 (see also pp. 132-4). As 'The foundations of academic freedom', *Occasional Pamphlet No. 6*, Sept 1947, 16 pages, Society for Freedom in Science. As 'The foundations of academic freedom', *The Lancet*, May 3rd, 1947, pp. 583-6. *LL* as Chap. 3, with additions.
- 41b. 'The foundations of freedom in science', *The Nineteenth Century and After*, CXLVI, April 1947, pp. 163-7. The Lloyd Roberts Lecture, Manchester, Nov. 19th 1946. A shorter version of [41a].
42. *Science, Faith and Society*, London, O.U.P., 1946. Paperback ed. with new Preface, Chicago, Chicago U.P., 1964. Lect. I (minus II) as 'Science and reality', *Synthese*, 5, 1946, pp. 137-50.

43. 'Old Tasks and New Hopes', *Time and Tide*, Jan. 4th 1947, pp. 5-6.
44. 'Science: Observation and belief', *Humanitas* (Manchester) I, Feb. 1947, pp. 10-5.
- 44/1. 'Countering inflation: Problems of a Labour Government', *Manchester Guardian*, March 3rd 1947. Also in: *Full Employment and Free Trade* [30], 2nd ed., as Appendix IV.
- 45(a). 'Organisation of Universities I', *Time and Tide*, July 19th 1947, p. 777.
- 45(b). 'Organisation of Universities II', *Time and Tide*, July 26th, 1947, pp. 802-3. (An address read at a conference on 'The place of the universities in the community', May 10th 1947, organised by the Division for the Social and International Relations of Science of the British Association for the Advancement of Science.)
- 45c. Both [45a] and [45b] also as, 'The place of universities in the community', *The Advancement of Science*, April 1948, pp. 13-5.
46. 'What kind of crisis?', *Time and Tide*, Oct 4th, 1947, pp. 1056-8.
47. 'The universities today', *The Adelphi*, 24 No. 2, Jan.-Mar. 1948, pp. 98-101.
48. 'Ought science to be planned? The case for Individualism', *The Listener*, XL 1025, Sept. 16th 1948, pp. 412-3. Also in: *LL* as Chap. 6, 'Planned science'.
49. 'Profits and private enterprise', in *Economic Problems in a Free Society*, London, Central Joint Advisory Committee on Tutorial Classes, 1948, pp. 50-62.
50. 'Planning and spontaneous order', *The Manchester School*, XVI, Sept. 1948, pp. 237-68. Includes the section 'Two kinds of order' from 'The growth of thought in society' [16]. Also in: *LL* as Chap. 8, 'The span of central direction', minus the section from [16].
51. 'The nature of scientific convictions', *The Nineteenth Century and After*, CXLVI, July 1949, pp. 14-28. Also in: *LL* as Chap. 2; Schwarz.
52. 'The authority of the free society', *The Nineteenth Century and After*, CXLVI, Dec. 1949, pp. 347-60. Also in: as, with some additions, re-arrangements and deletions (principally from the middle of p. 357 to the end), 'The logic of liberty: perils of inconsistency', *Measure*, I, Autumn 1950, pp. 348-62; *LL* as Chap. 7.
53. 'Economic and intellectual liberties', *Zeitschrift für Die Gesamte Staatswissenschaft*, CVI 3, 1950, pp. 411-47. Parts of [16] were included in pp. 412-4 ('Two kinds of order') and n.1 pp. 442-3. Also in: *LL* as Chap. 10.
54. 'Scientific beliefs', *Ethics*, LXI, Oct 1950, pp. 27-37. Also in: as, 'Der Glaube und die Wissenschaft', *Physicalische Blätter*, VI 8, 1950, pp. 337-349; Schwarz.

55. 'Die Freiheit der Wissenschaft', *Physicalische Blätter*, VII 2, 1951, pp. 49–55.
56. 'Autorität und Freiheit in der Wissenschaft', *Physicalische Blätter*, VII 3, 1951, pp. 97–102.
57. 'Contemporary scientific mythology', (a letter) *The Listener*, XLV, March 15th 1951, p. 432.
58. 'The hypothesis of cybernetics', *Brit. J. of Philosophy of Science*, II, Feb. 1951, pp. 312–5.
59. 'Totalitarianism', a review of *The Burden of Our Time* by H. Arendt, *Time and Tide*, Aug. 25th 1951, pp. 801–2.
60. *The Logic of Liberty*, London, Routledge, 1951.
Contents:
1. 'Social message of pure science'—see [32]
 2. 'Scientific convictions'—see [51]
 3. 'Foundations of academic freedom'—see [41]
 4. 'Self-government of science'—see [19]
 5. 'Science and welfare'—see [31], and [16] for pp. 78–83.
 6. 'Planned science'—see [48]
 7. 'Perils of inconsistency'—see [52]
 8. 'Span of central direction'—see [50]
 9. 'Profits and polycentricity'—see [37]
 10. 'Manageability of social tasks'—see [53] and [16].
61. 'The stability of beliefs', *Brit. J. of Philosophy of Science*, III, Nov. 1952, pp. 217–32. The greater part was included in *PK* pp. 187–94.
62. 'Skills and connoisseurship', in *Atti del Congresso di metodologia*, Turin, Dec. 17–20, 1952. Also in: *PK* pp. 49–57.
63. 'Science and faith', *Question*, V, Winter 1952, pp. 16–36; with Discussion, pp. 37–45. (A talk given at the 8th Present Question Conference, Oxford, Aug. 1952.) Also in: as 'Science and conscience', *Religion in Life*, XXIII, Winter 1953–4, pp. 47–58.
64. 'Social illusions', *Christian Newsletter*, April, 1953, pp. 77–82.
65. 'Protests and problems', *Bulletin of the Atomic Scientists*, IX, Nov. 1953, pp. 322, 340. (The welcoming speech at the Congress for Cultural Liberty, Hamburg, July, 1953. See also [68] and [72].)
66. 'Pure and applied science and their appropriate forms of organisation', *Occasional Pamphlet No. 14*, Society for Freedom in Science, 1953, 13 pages. Also in: *Science and Freedom*, London, Secker and Warburg, 1955, pp. 36–46 (see [72]); *Dialectica* Sept. 1956, pp. 231–41.
67. 'On the introduction of science into moral subjects', *Cambridge Journal*, VII, Jan. 1954, pp. 195–207. Also in: Schwarz.

68. 'A letter from the Chairman', *Science and Freedom* (A Bulletin of the Committee on Science and Freedom), 1, 1954. Also in No. 6, Aug. 1956. (See also [65] and [72].)
69. 'On Liberalism and liberty', *Encounter*, IV, Mar. 1955, pp. 29–34.
70. 'From Copernicus to Einstein', *Encounter*, V, Sept. 1955, pp. 54–63. Also in: *PK* as Chap. 1; Schwarz.
71. 'Words, conceptions and science', *The Twentieth Century*, CLVIII, Sept. 1955, pp. 256–67. Also in: *PK* Chap. 5, pp. 69, 78–80, 102–8, 110–3.
72. 'Preface', *Science and Freedom* (the Proceedings of the Hamburg Congress on Science and Freedom, July 1953, convened by the Congress for Cultural Freedom), London, Secker and Warburg, 1955, pp. 9–11 (see also [65], [66] and [68]).
73. 'This age of discovery', *The Twentieth Century*, CXLIX, Mar. 1956, pp. 227–34.
74. 'The magic of Marxism', *Bulletin of the Atomic Scientists*, XII, June 1956, pp. 211–5, 232. Also in: *Encounter* VII, Dec. 1956, pp. 5–17; as 'Die Magie des Marxismus', *Der Monat*, XI, 13, Dec. 1958, pp. 3–15; *PK*, pp. 226–48.
75. 'Passion and controversy in science', *The Lancet*, CCLCC, June 16th, 1956. Also in: *Bulletin of the Atomic Scientists*, XIII, April 1957, 114–9; *PK* pp. 134–60, with some additions and omissions.
76. 'Ethics and the scientist', *Bulletin of the Institute of Physics*, 7 No.7, July 1956, pp. 188–93. (A talk given at a symposium at Manchester, March 24th 1956; see pp. 193–200 for discussion.)
77. 'The next stage of history: An appeal for intellectual co-operation', special supplement to *Science and Freedom*, Nov. 1956, pp. 22–4.
78. 'Beauty, elegance and reality in science', in *Symposium on Science Observation and Interpretation*, ed. S. Körner, London, Butterworth, 1957, pp. 102–6. Also in: *PK* Chaps. 5 and 6, but with additional material, and not continuously nor with contents in the same order.
79. 'Scientific outlook: its sickness and its cure', *Science*, CXXV, Mar. 1957, pp. 480–504.
80. 'Problem solving', *Brit. J. for Philosophy of Science*, VIII, Aug. 1957, pp. 89–103. Also in: *PK* Chap. 5, pp. 120–131, with some omissions and rearrangement.
81. 'The foolishness of history, Nov. 1917–Nov. 1957', *Encounter* IX, Nov. 1957, pp. 33–7.
82. 'Oscar Jaszi and Hungarian Liberalism', *Science and Freedom* 1957, p. 7.
83. 'On biased coins and related problems', *Z. für Physikalische Chemie*, Neue Folge, Frankfurter Ausgabe, XV, April 1958, pp. 290–6.

84. 'The Committee on Science and Freedom and Apartheid', *Science and Freedom* 10, Feb. 1958, pp. 9–11. (Introduction to a meeting in London in Nov. 1957).
85. 'Tyranny and freedom: ancient and modern', (pamphlet?) *Quest*, Calcutta, 1958. Also in: *Quest* No. 20, Bombay, 1959, pp. 9–18.
86. 'Editorial' (on Freedom and Responsibility), *Science and Freedom*, No. 11, June 8th, 1958, pp. 5–8.
87. 'The impact of science', *Quest*, Bombay, No. 19, 1958, pp. 32–5. (The text of a talk given on the BBC.)
88. *Personal Knowledge*, London, Routledge, 1958.
Includes:
[61] in Chap. 9, pp. 286–94.
[62] in Chap. 4, pp. 49–57
[70] as Chap. 1.
[71] in Chap. 5, pp. 69, 78–80, 102–8, 110–3.
[72] in Chap. 7, pp. 226–48.
[73] in Chap. 6, pp. 134–60.
[78] in Chaps. 5 and 6, not continuously, nor with contents in the same order, and with much other material. The other items mentioned on PK p. x (i.e. [58], [66], [67], [80] and [83]), were not included verbatim.
89. 'A philosophy of perception': a review of *The Nature of Experience*, by Sir Russell Brain, *Brain*, 82, 1959, pp. 292–3.
90. 'Darwin and his evolution': a review of G. Himmelfarb, *Darwin and the Darwinian Revolution*, *New Leader*, Aug 31, 1959, p. 24.
91. 'The two cultures', *Encounter*, XIII, Sept. 1959, pp. 61–4. Also in: *KB* Chap. 3.
92. 'The organisation of science and the claim to academic freedom', *Science and Freedom*, 13, Nov. 1959, pp. 135–43. (Read at the Study Group, of the Congress for Cultural Freedom, on 'Freedom and Responsibility: The Role of the Scholar in Society', Tunis, April 1959).
93. *The Study of Man*, London, Routledge, 1959.
94. 'An epic theory of evolution', a review of *The Phenomenon of Man* by Teilhard de Chardin, *Saturday Review*, Jan 30th 1960, p. 21.
95. *Beyond Nihilism*, London, C.U.P., 1960 (The Eddington Lecture). Also in: *Encounter*, XIV, Mar. 1960, pp. 34–43; *History and Hope*, ed. K.A. Jelenski, New York, A Praeger, 1962, pp. 17–35 (see pp. 69–81 for discussion; see also [112]); *Crisis and Continuity in World Politics*, ed. G. Lanyi and W. McWilliams, Random House, 1966, pp. 214–27; *KB* Chap. 1.
96. 'Acceptance speech—Le Comte du Nouy Foundation', *Christian Scholar*, XLIII, Mar. 1960, pp. 57–8.
97. 'Morals—a product of evolution': review of *The Ethical Animal* by C.H. Waddington, *New Scientist*, Vol. 8 No. 214, Dec. 22nd, 1960, pp. 1666–7.

98. 'Towards a theory of conspicuous production', *Soviet Survey*, XXXIV, Oct–Dec 1960 pp. 90–9. Also in: as 'Theory of Conspicuous Production', *Colloque de Rheinfelden*, Calman Levy, Paris, 1960; *Quest* (Bombay), No. 41, April–June 1964, pp. 16–21 (a shorter version).
99. 'The study of man', *Quest*, Bombay, 29, Spring 1961, pp. 26–35. (The opening address at the Bombay Seminar on 'The Place of Science and the Humanities in Higher Education'.)
- 100a. 'Faith and reason', *J. of Religion*, Oct 1961, pp. 237–47. Also, as *The Scientific Revolution*, Chicago, University of Chicago Press, 1961; Also in, as 'Faith and reason', Schwarz.
- 100b. 'The scientific revolution', *The Student World*, LIV, No. 3, 1961, pp. 287–302. A version of [100a]. Also in: *Christians in a Technological Age*, ed. H.C. White, New York, Seabury Press, 1964, pp. 25–45.
101. 'Knowing and being', *Mind*, LXX, Oct. 1961, pp. 458–70. Also in: *KB* Chap. 9.
102. 'Science, academic and industrial', *J. of Institute of Metals*, LXXXIX, 1961, pp. 401–6.
103. 'Commentary on "The genesis of the special theory of relativity" by Prof Grünbaum', in *Current Issues in Philosophy of Science*, ed. H. Feigl and G. Maxwell, New York, Holt, Rinehart and Winston, 1961, pp. 53–5.
104. 'The unaccountable element in science', *Transactions of the Bose Research Institute*, Calcutta, Vol. 24, No. 4, Dec. 1961, pp. 175–84. Also in: *Philosophy*, XXXVII, Jan. 1962, 1–14; *Philosophy Today*, VI Autumn, 1962, 171–82; as 'Experience and perception of pattern', in *The Modelling of the Mind*, ed. K.M. Sayer and F.J. Crosson, Notre Dame Univ. Press, 1963, pp. 207–222; *KB* as Chap. 8.
105. 'History and hope', *Virginia Quarterly Review*, XXXVIII 2, Spring 1962, pp. 177–95.
106. 'The republic of science, its political and economic theory', *Minerva*, I, Oct. 1962, pp. 54–73. Also in: *Criteria for Scientific Development, Public Policy and National Goals*, ed. E. Shils, Cambridge (Mass), M.I.T. Press, 1968 (see also [124]); *KB* as Chap. 4.
107. 'Tacit knowing: its bearing on some problems of philosophy', *Reviews of Modern Physics*, XXXIV 4, Oct. 1962, pp. 601–12. Also in: *Philosophy Today*, VI, Winter 1962, pp. 239–62; *KB* Chap. 11.
108. 'Clues to an understanding of mind and body', ed. I. Good, *The Scientist Speculates*, London, Heinemann, 1962 pp. 375–80.
109. 'Commentary on "The uses of dogmatism in science" by Thomas Kuhn', ed. A.C. Crombie, *The Structure of Scientific Change*, London, Heinemann, 1962, pp. 375–80. (Kuhn's article is a much shortened version of the first third of *The Structure of Scientific Revolutions*, which had not then been published. His reply to Polanyi's comments is given on pp. 391–5.)

110. 'My time with X-rays and crystals', in *Fifty Years of X-Ray Diffraction*, ed. P. Ewald, Utrecht, A. Oosthoek, 1962, pp. 629–36. Also in *KB*, as Chap. 7.
111. 'A postscript', in *History and Hope*, ed. H.A. Jelenski, New York, F.A. Praeger, 1963, pp. 185–96 (see [95]).
112. 'Science and religion: separate dimensions or common ground?', *Philosophy Today*, VII, Spring 1963, pp. 4–14.
113. 'The potential theory of adsorption: authority in science has its uses and dangers', *Science*, CXLI, Sept. 1963, pp. 1010–13. Also in: *KB* as Chap. 6.
- ✓ 114. 'Science and man's place in the universe', in *Science as a Cultural Force*, ed. H. Woolf, Baltimore, John Hopkins U.P., 1964 (and O.U.P. 1965), pp. 54–76. A part, pp. 56–62 (top), was included in *TD* pp. 8–14.
115. 'The feelings of machines', (a letter) *Encounter*, XXII, Jan. 1964, pp. 85–6.
116. 'On the modern mind', *Encounter*, XXIV, May 1965, pp. 12–20. Also in: as 'Wider der Skepsis des modernen Denkens', *Gehort Gelesen*, Jan. 1968, Schwarz.
117. 'The structure of consciousness', *Brain*, LXXXVIII Pt 4, 1965, pp. 799–810. Also in *KB* Chap. 13.
118. 'Creative imagination', *Chemical & Engineering News*, ^{AA} XLVIV, April 1966, pp. 85–93. Also in: *Tri-Quarterly*, Winter 1967, pp. 111–24; as 'Schöpferische Einbildungskraft', in *Z. für philosophische Forschung*, 1968; *Toward a Unity of Knowledge*, ed. M. Grene, *Psychological Issues*, Vol. VI 2, Monograph 22, New York, International Universities Press, 1969, pp. 53–70, plus Discussion, pp. 71–91.
119. 'Polanyi's logic—answer', (a note to a letter about [116]) *Encounter*, XXVII, Sept. 1966, p. 92.
120. 'The logic of tacit inference', *Philosophy*, XLI, Oct. 1966, pp. 1–18. Also in: *KB*, as Chap. 10.
121. 'The message of the Hungarian revolution', *The American Scholar*, XXXV, Autumn 1966, pp. 661–76. Also in: *Christianity and Crisis*, XXVI, Oct. 1966, pp. 240–3; *Psychology Today*, I, May 1968, pp. 62–5 (see [129]); *The Anatomy of Knowledge*, ed. M. Grene, London, Routledge, 1969, pp. 315–28; *KB* as Chap. 2.
122. 'Autobiographical note', *Mid-century Authors*, 1966. [No further details traced].
123. *The Tacit Dimension*, London, Routledge, 1966. Includes part of [114].
124. 'The growth of science in society', *Minerva*, V, Summer 1967, pp. 533–45; Also in: *Man and the Science of Man*, ed. W. Coulson and C. Rogers, Charles Merrill Pub., 1967 (see also [132]); *Criteria for Scientific Development, Public Policy and National Goals*, ed. E. Shils, Cambridge (Mass), M.I.T. Press, 1968 (see [also 106]); *KB* as Chap. 5. Note: 'The growth of

- science in society' was wrongly stated in *TD*, p. 104, to be in *Encounter*, 1966. But as 'The society of explorers' it was preprinted for *Encounter* 1967 (and was listed by Brownhill as so published) yet was never published in *Encounter*.
125. 'Life transcending physics and chemistry', *Chemical & Engineering News*, XLV, Aug. 1967, pp. 54–66.
126. 'Science and reality', *Brit. J. for the Philosophy of Science*, XVIII, 1967, pp. 177–96.
127. 'Sense-giving and sense-reading', *Philosophy*, XLII, Oct. 1967, pp. 310–25. Also in: *Philosophy Today*, 11, 1969; as 'Sinnggebung und Sinndeutung', *Das Problem der Sprache*, ed. H-G. Gadamer, Munich, 1967; as 'Sinnggebung und Sinndeutung', *Seminar: Die hermeneutik und die Wissenschaften*, ed. H-G. Gadamer and G. Boehm, Frankfurt, 1978; *Intellect and Hope*, ed. T. Langford and W. Poteat, Durham (N.C.), Duke U.P., 1968, pp. 402–31; *KB* as Chap. 12.
128. 'Logic and psychology', *American Psychologist*, XII, Jan. 1968, pp. 27–43.
129. 'Conversation with Michael Polanyi', *Psychology Today*, I, May 1968, pp. 20–5, 66–7 (see also [121]).
130. 'Do life processes transcend physics and chemistry?', *Zygon*, III, Dec. 1968, pp. 444–7.
131. 'Life's irreducible structure', *Science*, No. 160, 1968, pp. 1308–12. Also in: *KB* Chap. 14.
132. 'The body-mind relation', in *Man and the Science of Man*, W. Coulson and C. Rogers, Charles Merrill Pub. Co. 1968, pp. 85–102. Discussion, pp. 103–127; other discussion with Polanyi, pp. 133–201. (See also [124]).
133. 'On body and mind', *The New Scholasticism*, XLIII No. 2, Spring 1969, pp. 195–204.
134. *Knowing and Being*, ed. M. Grene, London, Routledge, 1969. Contents: Editor's Introduction and items [91], [95], [101], [104], [106], [107], [110], [113], [117], [120], [121], [124], [127], [131].
135. 'The determinants of social action', in *Roads to Freedom: Festschrift for F.A. von Hayek*, ed. E. Stressler, London, Routledge, 1969, pp. 165–79.
136. 'Foreword' to M.H. Pirenne, *Optics, Painting and Photography*, Cambridge, CUP, 1970.
137. 'Transcendence and self-transcendence', *Soundings*, LIII No. 1, Spring 1970, pp. 88–94.
138. 'What is a painting?', *Brit. J. of Aesthetics*, 1970, pp. 225–36. Also in: *The American Scholar*, Vol. 39 No. 4, Autumn 1970, pp. 655–69.
139. 'Science and man', *Proc. Royal Soc. of Medicine*, LXIII, Sept. 1970, pp. 969–76.

140. 'Why did we destroy Europe?', *Studium Generale*, XXIII No. 20, Oct 1970, pp. 909-16. Also in: *Knowledge in Search of Understanding: The Frensham Papers*, ed. P. Weiss, Mt Kisco (N.Y.), Futura Pub. Co., 1975, pp. 1-8.
141. 'Genius in science', *Archives de L'Institut International des Sciences Théoretiques*, 34 No. 2, 1972, pp. 593-607. Also in: *Boston Studies in the Philosophy of Science*, Vol. XIV, 1972, pp. 57-71.
142. 'Discoveries of science', *Archives de L'Institut International des Sciences Théoretiques*, 19, 'Science, Philosophie, Foi', 1974, pp. 71-6.
143. *Meaning*, with H. Prosch, Chicago, University of Chicago Press, 1975. Chap. 9, 'Truth in myths', also published in *Cross Currents*, Vol. 25 No. 2, 1975, pp. 149-63.

Appendix II

Summaries of Papers Not Republished Either above or in Polanyi's Books

[3]. 'USSR Economics', 1935.

Socialism is now definitely installed in the USSR and Communism has been relegated to an uncertain future. 'A picture, drawn correctly at the present time, may, therefore, possibly forecast the ultimate meaning of the Russian upheaval. A new marketing system, and open market for all consumers goods as the only channel of distribution, has made it easier to review the economic system' (p. 67). The failure of Communism, 1917-21, and the return to private capitalism in the New Economic Policy of 1921. In 1928 the first Five-Year Plan was begun and has been claimed to have been fulfilled in 1932. The second was launched in 1933.

I. The Social Body: statistics and Polanyi's estimates relating to food, housing, wages, health, education and industrial production.

II. The Economic System: No planned economy, only planned production, and even then little systematic planning, for plans are frequently changed and over-production of one commodity is taken as compensating for under-production of another. In 1931 Stalin introduced three market principles: wages to be fixed so as to ensure a sufficient supply of workers with the required qualifications; enterprises to be profitably conducted; and business managers to have personal responsibility. This economic system, 'Socialism', is in effect indistinguishable from capitalism except that ownership is not transferable by private contract, for the Government appoints the 'owners', the managers. The Central Planning Commission does not *plan*, but allocates capital for selected proposals put to it by local soviets.

III. The USSR aims to overtake and outstrip capitalist countries but is, and is likely to remain, poor and inefficient.

IV. There is a notable driving force in the USSR, the hope of personal success, of higher wages and privileges in the towns and especially in some industries, for educated workers. The economic consciousness of the workers