

## **RONALD ALFRED SILOW COLLECTION**

**1908-1990**

### **Biographical Information**

#### **Silow, R.A**

Ronald Alfred Silow was born on February 21st 1908. He was educated at the Latymer School in London. He gained First Class Honours in Agricultural Botany at Reading and then went on to do his MSc at Wales, returning to Reading to gain his DSc in Genetics. He was Geneticist at the Empire Cotton Growing Corporation's Cotton Research Station, in Trinidad in the West Indies and was Visiting Professor in Plant Genetics at Virginia University in USA. He was also Agricultural Research Council Officer at Cambridge University and Director of Science for the British Council in China. He later worked as Technical Officer of the Plant Industry Branch of the Agricultural Division of the Food and Agriculture Organisation of the United Nations in Rome. From 1955 to 1963 Dr Silow was Chief of the Atomic Energy Branch, Food and Agriculture Organisation of the United Nations. Here he initiated and developed activities on the uses of atomic energy in food and agriculture. In 1964 R.A. Silow was appointed first Deputy Director of the Joint Division for Atomic Energy in Agriculture, established by the International Atomic Agency and the Food and Agriculture Organization of the United Nations. Dr. Silow also campaigned for more effective international control against chemical and biological warfare.

In October 1975 Dr.Silow stated that he had repeatedly warned the FAO Administration that Dr.M.S.Swaminathan, a leading adviser to FAO and the U.N. System in Food Science and Agricultural Development, was presenting to the UN System data and claims widely known to be false leading to the wastage of much manpower and money intended by member governments for economic development.

Dr.Silow also claimed that though it was said within the FAO that Swaminathan had cleared himself, recent evidence showed that Swaminathan's misleading of his Government and the FAO culminated in the falsity of his defence in August 1973 against the criticisms levelled against him by the Official Committee in India that enquired into the suicide in May 1972 of Dr.Vinod H.Shah, one of Swaminathan's scientific staff, in protest against the irregularities in science at the Indian Agricultural Research Institute in New Delhi where Swaminathan was Director. Swaminathan had claimed that he had bred a new variety of wheat with 15% more protein and 148% more lysine in that increased protein than in its parental variety.

After the death of his wife from breast cancer in 1988, Dr.Silow launched the Bertha St.Aubyn Silow Foundation to raise cash for breast cancer research. Ronald Silow died on July 2nd. 1990, at the age of 82. He left his entire estate of 300,000 to the Imperial Cancer Research Fund to help pay for tests into a drug which could prevent breast cancer: Tamoxifen.

His special areas of activity were: Genetics, particularly of cotton and pasture plants, and species crosses; speciation, evolution and domestication of crop plants; crop breeding particularly cotton; international scientific relations; organisation of agricultural research and scientific education and research in Europe, North and South America, Australasia and the Far East.

With Sir Joseph Hutchinson and S.G. Stephens he published *The Evolution of Gossypium*, Oxford, 1947.

### **Swaminathan, Monkombu Sambasivan**

M.S.Swaminathan was born in 1925.

He was appointed Director General of the Indian Council of Agricultural Research (ICAR), and was a Member of the Technical Advisory Committee to the Consultative Group on Agricultural Research (which distributes through FAO more than 10 million a year in research funds).Swaminathan was also a Member of the United Nations Protein Advisory Group and of Cimmyt: the International Maize and Wheat Improvement Centre in Mexico, run by Nobel Peace Prize Winner Dr.Norman Borlaug.

In 1973 he was elected Chairman of a panel formed by FAO to advise member governments on "Food production Technology and the Achievement of Social Goals" Swaminathan was elected to the Royal Society the same year. The following year, in 1974, Joseph Hanlon's paper appeared in *New Scientist*: "Top food scientist published false data"mentioning that Dr.Swaminathan's inflated claims for lysine and protein increases in a new strain of wheat were important in winning him the Ramon Magsaysay Award and in shifting food research funds "to the highly controversial area of radiation mutations."

#### Publications:

With H.W.Howard, Swaminathan published *The cytology and genetics of the potato (Solanum tuberosum) and related species*, 1953 and *Cytogenetics of crop plants* (with P.K.Gupta and U.Sinha),1983.

Swaminathan was editor in chief of: *Genetics: new frontiers: proceedings of the 15th International Congress of Genetics, held in New Delhi in 1984*, and author (jointly with S.K.Sinha) of *Global aspects of food production*, 1986.

## **R.A. Silow Collection.Envelope 1:**

Cambridge Evening News.Cutting: "Cancer Fund Concert": for Bertha St.Aubyn Silow Foundation.9.9.89.

Cambridge Evening News. Cutting: "Concert will aid research into cancer." 15.9.89.

Cambridge Evening News.Cutting. Announcement of the death of R.A.Silow, 2.7.90.

Cambridge Evening News. Cutting: "City man leaves 300,000 for tests." (The bequest was to Imperial Cancer Research and the money was to help pay for tests into a drug which could prevent breast cancer).

Grieg, A.B. Letter, from 31 Ollerton Road, London, to the family or executor of the late Dr.Silow saying: she was the widow of his nephew Geoffrey, who died in 1950 and she wished to send a donation to R.A.Silow's memory. n.d. Photocopied holograph, 2ff.

Hand lens used by R.A.Silow.

Silow, R.A. Bronze printing plate: "Dr.R.A.Silow, Chief, Atomic Energy Branch. Food and Agriculture Organization of the United Nations, Rome."

Another bronze printing plate: "Ronald A.Silow."

Silow, R.A. Card: "ICRR II, Harrogate, 1962. F.A.O."

Silow, R.A.

Cutting, headed: "Distinguished Guest": In September 1961 Dr.R.A.Silow, Chief, Atomic Energy Branch, FAO, conferred with Mr.J.E.Flanagan, Jr., on a 1962 presentation of a six-week course on radionuclides in foods. n.d.

Silow, R.A. Letter, from 10 Westberry Court, Grange Road, Cambridge, to Mr. and Mrs.Rochford, thanking them for their donation to R.A.Silow's Bertha St.Aubyn Silow Foundation for research into the control and prevention of breast tumours and breast cancer. 17.10.89. Photocopied holograph, 1f.

Silow, R.A. "The need and opportunity for greatly intensified action against losses in stored grain." May 1968. Pencilled holograph, 14ff.

Silow, R.A. Portrait photograph, black and white. 18 x 24cm.

Stewart-Jones, Marjorie R. Letter, from 3 Cissbury Road, Broadwater, Worthing to Dr.Clarke expressing sympathy for his loss at the death of his uncle and their old friend: Ronald Silow, 19.7.90. holograph, 2pp.

United Nations Organization. Charter of the United Nations and Statute of the International Court of Justice. New York, United Nations, 1962.

## **R.A.Silow Collection. Envelope 2.**

Brown, Lester R Increasing world food output: problems and prospects. Washington, United States Department of Agriculture: Foreign Agricultural Economic Report, no.25. 140pp.

Cambridge Evening News. Cutting: "Founder of charities for cancer dies at 82." 10.7.90.

Clark, Grahame Domestication and social evolution. (*Phil.Trans.R.Soc.Lond.* B.275:5-11 (1976).)

European Atomic Energy Commission. Application of atomic energy in agriculture. (Annual report 1967). Wageningen, ITAL, 1968. 115pp.

European Information Centre for Food Irradiation. Food Irradiation: Quarterly International Newsletter, vol.8, nos.1-2, July-December 1967; Vol.8, no.4, April-June 1968; vol.9, no.1-2, July-December 1968. Excerpts

Excerpts from an unknown publication, examining Dr.Swaminathan's claims concerning Sharbati Sonora. n.d. Photocopies. pp.145-150.

FAO/IAEA Symposium: Improving Plant Protein by Nuclear Techniques, Vienna, 8-12 June 1970. Table II. Amino acid content.nitrogen content and protein value (%) in some protein-rich wheat species. (The table includes Sharbati-Sonora, with a note by R.A.Silow, "sown in India."). Photocopy, 1f.

Hanlon, Joseph "Top food scientist published false data." (*New Scientist*, 7.11.74, pp.436-437). Photocopy. (This article mentions that Dr.Swaminathan's claims for lysine and protein increases in a new strain of wheat were important in winning him the Ramon Magsaysay Award and in shifting food research funds "to the highly controversial area of radiation mutations.")

*The Hindu* "New varieties of wheat: Swaminathan answers criticism." (*The Hindu*, 28.8.73). (Includes notes by R.A.Silow). 1p. Photocopy.

Hindustan Times "ICAR chief made inflated claims about wheat variety." (*Hindustan Times* 27.8.73). (Includes notes by R.A.Silow). 1p. Photocopy.

International Project in the field of Food Irradiation. Food Irradiation Information, no.12, November 1982. (Final issue). 152pp.

Nature "Did Dr.Shah die in vain?" (*Nature* 253:577). Photocopy.

New Scientist Letters: Swaminathan Controversy. (*New Scientist*, 26.12.74, pp.948; 30.1.74, p.281;6.2.75, p.339.) (Include notes by R.A.Silow). 4pp. Photocopies.

ÃThe Patriot (Delhi) "Report busts inflated IARI research claims." 27.8.73. (Includes notes by R.A.Silow). 1p. Photocopy.

## **R.A.Silow Collection: Envelope 2: contd.**

Ryle, Martin Is there a case for nuclear power? London, Menard Press, 1982. 6pp.  
Science & Culture "Ethics in scientific journalism." (*Science & Culture*, 1975, 41:43-47.)  
Photocopies.

Shah, V.H. "Findings on the statements and allegations made by late Dr.V.H.Shah in his letter dated 5.5.72." Chapter 7. (Includes note by R.A.Silow: "Re dates.") pp.40-41.  
Photocopies.

Shah, V.H. "Suicide of Dr.V.H.Shah of IARI(M): Discussion under Rule 176, 18.5.72." pp.205-206, 209©210, 245©246. Photocopies.

Silow, R.A."Leading FAO adviser unjustly blames British editor for unauthorized re-publication of that adviser's false data." (Here Dr.Silow stated he had for years repeatedly warned the FAO amination that Dr.M.S.Swaminathan, a leading adviser to FAO and the U.N. System in Food Science and Agricultural Development, was presenting to the UN System data and claims widely known to be false leading to the wastage of much manpower and money intended by member governments for economic development. Dr.Silow also claimed that although it was said within the FAO that Swaminathan had cleared himself, recent evidence showed that Swaminathan's misleading of his Government and the FAO culminated in the falsity of his defence in August 1973 against the criticisms levelled against him by the Official Committee in India that enquired into the suicide in May 1972 of Dr.Vinod H.Shah, one of Swaminathan's scientific staff, in protest against the irregularities in science at the Indian Agricultural Research Institute in New Delhi where Swaminathan was Director. Swaminathan had claimed that he had bred a new variety of wheat [Sharbati Sonora] with 15-25% more protein and 148% more lysine in that increased protein than in its parental variety). 29.10.75. Photocopied holograph, 13pp. (page 14 is missing).

Silow, R.A. List of publications by R.A.Silow up to 1950. Photocopied typescript, 4pp.

Silow, R.A. Photocopies of post office return receipt cards showing that R.A.Silow's letter dated 3.9.71 to S.Majumdar was received in the Ministry of Agriculture; that R.A.Silow's letter dated 31.10.72 to the Prime Minister was received. Photocopies, 2ff.

Silow, R.A. "Sharbati Sonora - one of the most extensive cases of non-validity in the history of science: an officially-documented case study of its exposure." n.d. (post 1972), photocopied holograph, 58pp.

Silow, R.A. "Top food scientist published false data. One of the most extensive cases of non-validity in the history of science." 15.11.74. Photocopied Holograph, 11pp.

United Nations. International action to avert the impending protein crisis. Report to the Economic and Social Council of the Advisory Committee on the Application of Science and Technology to Development. New York, United Nations, 1968. 106pp. (Includes notes and marginalia).

United Nations. Department of Political and Security Council Affairs. Effects of the possible use of nuclear weapons and the security and economic implications for states of the acquisition and further development of these weapons. Report of the Secretary-General transmitting the study of his consultative group. New York, United Nations, 1968. 76pp. (Includes a note from Dom Rosa thanking R.A.Silow for lending him this book, n.d.)

United Nations Educational Scientific and Cultural Organization. National science policies of the U.S.A. Origins, development and present status. Science Policy Studies and Documents no.10. Paris, Unesco, 1968. 170pp.

United States Department of Agriculture. Economic Research Service. Changes in agriculture in 26 developing nations 1948 to 1963. Foreign Agricultural Economic Report no.27. 134pp. Zuckerman, Solly Science advisers, scientific advisers and nuclear weapons. London, Menard Press,1980. 15pp.

### **R.A.Silow Collection Envelope 3.**

Ambrose, M.J. Letter from the John Innes Institute to Dr. N.M. Clarke concerning the deposit of the Papers of R.A. Silow, Dr. Clarke's uncle, in the John Innes Archives. 18.1.94. TS, 1f.

Borlaug, N.E. and Anderson, R.G. Letter: "Defence of Swaminathan", written from: Wheat Research International Center for Maize and Wheat Improvement, Londres, Mexico, to *New Scientist*, 30.1.75, p.281. Photocopy.

Cambridge Evening News, "Founder of charities for cancer dies at 82": announcing the death of R.A. Silow. Cutting, 10.7.90.

Clarke, N.M. Letter, from School of Physics & Space Research, University of Birmingham, B152TT, to Mrs. R.D. Harvey, Archivist of the John Innes Centre, concerning the life and work of Dr. Clarke's uncle, R.A. Silow. 28.2.94. TS, 2ff.

Fischer, D.A.V. Letter to *New Scientist* on Swaminathan Controversy. 26.12.74, p.948. photocopy.

FAO Program for Atomic Energy in Food and Agriculture. Activities initiated by and developed under the direction of R.A. Silow, Chief, Atomic Energy Branch, FAO, and resultant publications. (1955-69).

Photocopies, 2ff.

FAO/IAEA Symposium, Vienna 8-12 June 1970:

Improving Plant Protein by Nuclear Techniques. Table II.

Amino acid content..., Nitrogen content and protein value (%) in some protein-rich wheat species. (Includes notes by R.A. Silow). photocopy, 1f.

Ghandi, Indira: Photocopy of the Post Office return receipt card showing that R.A. Silow's letter dated 31.10.72 to the Prime Minister was received in her office on 6.11.72. Photocopy, 1f.

Hanlon, J. Letter to *New Scientist*, 30.1.75, p.281. Photocopy.

The Hindu. "New variety of wheat: Swaminathan answers criticism." Cutting, 28.8.73. (Includes R.A. Silow's comments). Photocopy

Hindustan Times. "ICAR chief made inflated claims about wheat variety." Cutting, 27.8.73. Photocopy, 1f.

Hutchinson, Joseph Letter to *New Scientist* on Swaminathan Controversy. 9.1.75, p.96. Photocopy.

India. Parliament. Excerpts from Discussion under Rule 176: Suicide by Dr. V.H. Shah of

IARI(M).18.5.72. Photocopies, Columns: 205-206, 209-210, 245-246. 3ff.

Khvostova, V.V. and Privalov, G.F. Letter, from Institute of Cytology and Genetics, Siberian Branch of the Academy of Sciences of the USSR, Novosibirsk 90, to *New Scientist* concerning Swaminathan Controversy. 9.1.75, p.96. Photocopy.

Kumar, A. Letter, from International Crops Research Institute for the Semi-Arid Tropics, 1-11-256, Begumpet, Hyderabad-500016, India, to *New Scientist*, 6.2.75, p.339. Photocopy.

Majumdar, S. Photocopy of the Post Office return receipt card showing that R.A.Silow's letter dated 3.9.71 to Mr.S.Majumdar was received in the Ministry of Agriculture on 6.9.71. 1f.

*The Patriot* (Delhi) "Report busts inflated IARI research claims." 27.8.73. (Includes notes by R.A.Silow). 1p. Photocopy.

*Science & Culture*: Ethics in scientific journalism. Vol.41, no.2, Feb.1975. Photocopies. pp.43-46.

Seshachar, B.R. Letter, from Centre for Theoretical Studies, Indian Institute of Science, Bangalore 560012, to *New Scientist*, on Swaminathan Controversy. 26.12.74, p.948.

Shah, V.H. Chapter 7: Findings on the statements and allegations made by late Dr.V.H.Shah in his letter dated 5.5.72. n.d. Photocopy, 2ff.

Sharbati Sonora: Excerpt from a book concerning Dr.Swaminathan's work on and claims for Sharbati Sonora. n.d. pp.145-149. Photocopy.

Silow, R.A. International and regional activities organized by R.A.Silow and resultant publications 1950-55. n.d. Photocopy, 1f.

Silow, R.A. Leading FAO adviser unjustly blames British Editor for unauthorized republication of that adviser's false data. 14ff. Photocopy of a Holograph.

Silow, R.A. Letter: "Swaminathan Controversy", from via Michelini Tocci 80, 00136 Rome, to *New Scientist*, 6.2.75, p.339. Photocopy.

Silow, R.A. List of publications up to 1950. (1931-1950). n.d. Photocopy, 1f.

Silow, R.A. Notes on Dr.Hanlon's article. Handwritten notes on p.339 of *New Scientist*, 6.2.75.

Silow, R.A. Self-fertility of Lotus spp. *No Journal Title*, April 1931, pp.234-240. (Three copies).

Silow, R.A. Sharbati Sonora - one of the most extensive cases of non-validity in the history of science. An officially documented case study of its exposure. n.d., (post 1972). Photocopy of a holograph, 58ff.

#### **R.A.Silow Collection.Envelope 4:**

Hutchinson, Joseph B. Sydney Cross Harland, 19 July 1891 - 8 November 1982; elected F.R.S. *Biographical Memoirs of Fellows of the Royal Society*, 1984, 30:299-316. Photocopy.

Silow, R.A. The comparative genetics of *Gossypium anomalum* and the cultivated Asiatic cottons. *Journal of Genetics*, 1941, 42:259-358. Photocopy.

Silow, R.A. Evidence on chromosome homology and gene homology in the amphidiploid New World cottons. *Journal of Genetics*, 1946, 47: 213-221. Photocopy.

Silow, R.A. The genetics and taxonomic distribution of some specific lint quantity genes in Asiatic cottons. *Journal of Genetics* 1939, 28:270-298. Photocopy.

Silow, R.A. The genetics of leaf shape in diploid cottons and the theory of gene interaction. *Journal of Genetics*, 1939, 28:229-276. Photocopy.

Silow, R.A. The genetics of species development in the Old World cottons. *Journal of Genetics*, 1944, 46:62-77. Photocopy.

Silow, R.A. The inheritance of lint colour in Asiatic cottons. *Journal of Genetics*, 46:78-115. Photocopy.

Silow, R.A. Mission to China 1946-1949. *Empire Cotton Growing Review*, 1950, 27: 1-25. Reprint.

Silow, R.A. The need and opportunity for greatly intensified action against losses in stored grain:note. 10.5.68. TS, 4ff. Photocopy.

Silow, R.A. A preliminary report on pollen-tube growth in Red Clover (*Trifolium pratense* L.). *Welsh Plant Breeding Station Bulletin*, series H, 1931, pp.228-233. March 1931. Photocopy. (Two copies).

Silow, R.A. The problems of Trans-Pacific migration involved in the origin of the cultivated cottons of the New World. pp.112-118. [The author has written a note on this paper: "Delivered at 7<sup>th</sup> Pacific Science Congress in New Zealand in Dec. 1948. This is copied from the *Proceedings* of that Congress in 8 vols. (this copy from vol.5 - Botany)]. Those vols. were a gift from Lord Rutherford's library in August 1960 to the Cambridge Philosophical Library. He was of N.Z. origin, later worked in Cambridge University. He had a flat in Fen Causeway Flats, where I and my wife visited Lady Rutherford in Dec.1949 on our return from N.Z. (or before we went to China in 1946)." Photocopy.

Silow, R.A. The significance of research in the development of agriculture and related industries. *No Journal Title*, but pages are headed: *Potential contribution of atomic energy to development in agriculture and related industries*. pp.277-279. Photocopy.

Silow, R.A. A systemic disease of Red Clover caused by *Botrytis anthopila* Bond. *Transactions of the British Mycological Society*, 1933, 18:239-248.

Silow, R.A. and Yu, Chi Pao, Anthocyanin pattern in Asiatic cottons. *Journal of Genetics*, 1942,43:249-284. Photocopy. (Includes holograph note).

Williams, R.D. Fertility of various herbage legumes. *No Journal Title*, April, 1931, pp.221-227. Photocopy.

Williams, R.D. Genetics of cyanogenesis in White Clover (*Trifolium repens*). *Journal of Genetics*, 1939, 38:357-365. Photocopy.

Williams, R.D. Genetics of flower colour in *Trifolium pratense* L. I. Basic white colour (factor c). *Journal of Genetics*, 1935, 31: 431-450. Photocopy.

Williams, R.D. Self-fertility in Lucerne. *No Journal Title*, pp.217-220. March 1931. Photocopy.

Williams, R.D. Incompatibility alleles in *Trifolium pratense* L.; their frequency and linkage



relationships. *Proceedings of the International Genetical Congress*, Edinburgh 1939. (A supplementary volume of the *Journal of Genetics*,) p.316. Photocopy.

Williams, R.D. Self- and cross-sterility in Red Clover. *No Journal Title*, February 1931, pp.181-208. Photocopy.

Williams, R.D. Self- and cross-sterility in White Clover. *No Journal Title*, 1931, pp.209-216. Photocopy.

Williams, R.D. and Silow, R.A. Genetics of Red Clover (*Trifolium pratense* L.), compatibility. I. *Journal of Genetics*, 1933, 27: 341-362. Photocopy.

### **R.A.Silow Collection. Envelope 5:**

Agricultural Administration: a Quarterly Journal. Advertisement in *Nature*, 14.12.73, for the first issue: Jan.1974.

Anon. I. Introduction - the significance of nuclear science for agriculture and food production. n.d.(c.1971), duplicated ts, 34ff.

Boag, J.W., et al. Letter to the Editor of *The Lancet* under the heading: "Cancer following nuclear weapons tests." *The Lancet*, 9.4.83, p.815. Photocopy, 1f.

British Medical Journal: Journal of the British Medical Association. 19.4.47.

Cambridge City Council. Cambridge and nuclear weapons: essential information. n.d. 7pp. (Two copies).

Campaign for Nuclear Disarmament, Cambridge Nuclear war and you: essential information. n.d. folder. (Two copies).

Campaign for Nuclear Disarmament, Cambridge. Why join CND? Some members of Cambridge CND tell you why they joined... n.d. (post-1959). folder.

Clark, Grahame Domestication and social evolution. *Phil.Trans.R.Soc.Lond.* B,275:5-11.

Campaign for Survival Nuclear war: the facts you should know - and what you can do to help prevent it. Godalming, n.d. post 1979. folder. (2 copies).

Connor, Steve The day Sellafield's alarm went off. *New Scientist*, 22/29.12.83, p.871. Photocopy, 1f.

Deitch, Rodney Medical effects of nuclear war. *The Lancet*, 12.3.83, p.602. Photocopy.

(Includes holograph note by R.A.Silow). (Stapled with: The danger of nuclear war. *The Lancet*, 7.4.84, p.771, sixth sheet.)

Elliott, Sue Why a scientist wrote Bonnie and Clyde hit. *Cambridge Weekly News*, 19.12.85. Cutting and Photocopy, 1f.

Feldman, Moshe and Sears, Ernest R. The wild gene resources of wheat. Modern plant-breeding practices have reduced the genetic variability of the cultivated wheats. The best hope for future crop improvements lies in exploring the abundant gene pool of the plant's wild relatives. *Scientific American*, 244:98-109, Jan.1981. Photocopy.

Food and Agriculture Organization of the United Nations Committee on Agriculture, 2nd Session, Rome, 17-30 April 1974. Food Production Technology and Achievement of Social Goals. Agenda item. 1 page.

Food and Agriculture Organization of the United Nations Section II - Report of the 28th Session of the programme Committee. 122pp.

Hosenball, Mark and Mascarenhas, Anthony Smuggled zirconium rings alarm bells over Zia's atom plans. *Sunday Times*, 22.11.81. Cutting and Photocopy, 1f.

Hughes, A.E., et al. Radioactive waste disposal. Letter, from United Kingdom Atomic Energy Authority Laboratory, Harwell, to *The Times*, 26.1.82. *The Times*, 28.1.82, p.13. Cutting and

photocopy, 1f.

Humphrey, Nicholas 'We behave as though we have been hexed by the bomb - put under a spell.' The Bronowski Memorial Lecture 'Four Minutes to Midnight'. *The Listener*, n.d. (Includes holograph information written on front and back pages: "The Bronowski Memorial Lecture, shown on BBC 2 with the compliments of Newnham against the Bomb." "If you would like to know more about Newnham against the Bomb contact Alice Roughton...or Liz Neild...). Photocopy, 4pp. (Also, a photocopy of the original article, from *The Listener*, 29.10.81, 5ff.) IHT. U.S. firm found guilty in atomic worker's case. *IHT*, 19-20 May 1979. Cutting and Photocopy, 1f.

Knox, E.G., et al. Letter, from the Department of Social Medicine, University of Birmingham, to the Editor of *The Lancet* under the heading: "Cancer following nuclear weapons tests." *The Lancet*, 9.4.83, p.815. Photocopy, 1f.

ÅKuckuck, H. Abstracts of the following papers:

"Genetical changes in the origin of cultivated plants and their importance in breeding."

Bericht G Åber die Arbeitstagung 1962 der Arbeitsgemeinschaft der Saatzuchtleiter im Rahmen der Vereinigung Åsterreichischen Saatgutz Achter gehalten vom 27. bis 29. Nov.1962 in Gumpenstein."

"Examples of crop exploration © wheat (primitive cultivars)." pp.32-33.

Record of the FAO/IBP Technical Conference on the exploration, utilization and conservation of plant genetic resources, Rome, Italy, 18 Sept. to 26 Sept. 1967 (With G.Kobabe):

"KÅG Åchenzwiebel, *Allium cepa* L." *Handbuch der Pflanzenz Åchtung*, 6:270-312

"Vavilov's Genzentrentheorie in heutiger Sicht." *Eucarpia. Third Congress of the European Association for Research on Plant Breeding*, Paris, 1962, pp.177-96.

(With A.H.BuntingÅ): "Standardisation and treatment of ecological observations." *Genetic resources in plants - their exploration and conservation*. Oxford, Blackwell, 1970, pp.181-188

"Primitive wheats." *Genetic resources in plants their exploration and conservation*. Oxford, Blackwell, 1970. pp.249-266.

"Near East. Cereals. Syria, Iraq, Iran, Pakistan." *Survey of crop genetic resources in their centres of diversity. First report*. Rome, FAO/IBP 1973, 14-21.

The Lancet. BMA Report on the Medical Effects of Nuclear War. *The Lancet*, 12.3.83. pp.600-601. Photocopy. (Stapled with "The danger of nuclear war." Fourth and fifth sheets). Photocopies.

The Lancet. Computer estimate of casualties after nuclear attack on Britain. *The Lancet*, 7.4.84, pp.785-786. Photocopy. (Stapled with: "The danger of nuclear war." Second and third sheets.)

The Lancet. The danger of nuclear war. *The Lancet*, 7.4.84, p.771. Photocopy.

The Lancet. International physicians for the prevention of nuclear war. *The Lancet*, 12.3.83, p.601. Photocopy. (Stapled with: "The danger of nuclear war." Fifth sheet).

The Lancet. The radiologists' view. *The Lancet*, 12.3.83, pp.601-602. Photocopies. (Stapled with: "The danger of nuclear war.") Fifth and sixth sheet.

Markillie, Paul High risks of low-level radiation. *Cambridge Evening News*, p.12. 13.5.80. Cutting and Photocopy, 1f.

Mather, Ian UK hopes to exclude deterrent from deal. *Observer*, 22.11.81. Cutting and photocopy,1f.

Medical Campaign Against Nuclear Weapons What do doctors say about the medical effects of nuclear war? Cambridge. n.d. (post 1983) 6pp.

Milliken, Robert A-Bomb Tests. Fallout of a cloud of secrecy. British nuclear weapons tests in the Australian desert in the 1950s were conducted under intense secrecy and with no concern for the safety of the Aborigines or service personnel. Robert Milliken reports on new evidence brought to light by the Australian Royal Commission. *New Statesman*, 30.11.84, pp.19-20. Photocopy.

Mintz, Morton Declassification mistake admitted. U.S. left H-Bomb data open to public, 19-20.5.79. Cutting and Photocopy, 1f.

Moules, Ellee Two brilliant scientists and the secret of new life. Two of Cambridge's greatest scientists, Francis Crick and James Watson, discovered the secret of life in a city laboratory. Their battle to succeed is highlighted in a BBC 2 drama tonight. *Cambridge Evening News*, 27.4.87, p.13. Photocopy, 1f.

Pringle, Peter Fears grow of Pakistani A-bomb plan. *Observer*, 22.11.81. Cutting and Photocopy, 1f.

Silow, R.A. Papers of ?R.A.S. 10.2.90. Holograph notes on papers. n.d. 1f.

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Later revisions by MJA