is less robust and has a much lower limit—about 1,200 c.p.s.—to its usable frequency range than the cathode ray tube. 4, 6, and 12-way flight units with either cathode ray tubes or galvanometers retain photographic recording, despite the additional labour and complication. Direct recording is being developed, but the increased inertia when using a stylus has reduced the frequency range of the existing four-way galvo-pen recorder to from zero to 70 c.p.s.

The cameras used have been designed for ready observation of faults, and incorporate means for exposing automatically a predetermined length of film, cutting or perforating between records, and record numbering; they give an accurate and convenient time scale and one or more reference lines on the paper parallel to its direction of motion. Daylight and rapid or mechanical reloading are often

required for flight work.

Other exhibits included a torque-meter which measures the angular twist of a shaft in terms of the phase displacement between the E.M.F.s of two identical A.C. generators fixed at a known distance apart on the shaft, and a vacuum tube acceleration pick-up in which the two anodes of a double diode valve are elastically mounted and move with respect to the cathode under impressed acceleration.

The lucid account of recent work, given to visitors in papers written by E. Jones, J. Taylor, J. B. B. Owen, Dr. J. R. Richards, and Dr. J. E. Bennett, of the Royal Aircraft Establishment, has been valuable in the preparation of these notes.

RELEASE OF INFORMATION ON ATOMIC ENERGY

IN Nature of March 22, 1947 (p. 411), a list was published of seventy-three reports on atomic energy and related subjects which had been released by the Ministry of Supply from the category of secret documents. This list of 'declassified' reports on atomic energy has now been augmented, and at the same time a change has been made in the method of making them available to the scientific public. Henceforth, copies will be sold by H.M. Stationery Office, P.O. Box 569, Cornwall House, London, S.E.I, to which application should be made for reports from either list. It will be necessary only to quote the B.D.D.A. number in the present list, but titles should be quoted in the case of the previous list unless the B.D.D.A. number is known. These reports are in the form of enlarged prints taken from micro-films, and the prices below are for these prints; as an alternative, films could be supplied if desired. The copyright of all such documents is vested in the Crown, and copies may not be made, nor extracts published, without permission from H.M. Stationery Office.

It is hoped that H.M. Stationery Office will also be in a position shortly to supply documents of American origin on atomic energy, and applications for these should be made to the address given above.

These arrangements do not affect the method by which Canadian documents are obtained from the Plans and Publications Section of the National Research Council, Ottawa (see *Nature*, **159**, 719; 1947).

The British documents newly declassified are as follows:

B.D.D.A. No.	Report No.	Title and Author(s)	Date	Price
74	Br. 195	Report on experimental work on fluorine pro- duction to May, 1939. Thomson, J. W.	June 8, 1939	10s. 8d.
75	Br. 50	Investigations on oxides of X*. Haworth, W. N.	Nov. 1941	1s. 4d.
76	Br. 257	A new method of investi- gating the angular dis- tribution of high-energy neutrons scattered by protons. Feather, N.	March 27, 1942	4s. 0d.
77	Br. 37	The preparation of fluor- ine. Ferguson, J.	May 22, 1942	10s. 8d.
78	Br. 72	Capture cross-sections of N, Mg, S, Ca and Pb for thermal neutrons. Fen- ning, F. W., Seligman, H.	Nov. 1942	2s. 0d.
79	Br. 89	Note on the inelastic scattering of fast neu- trons. Feather, N.	Nov. 14, 1942	3s. 4d.
80	Br. 310	Neutron-produced radio- activity in relation to the detection of high- energy neutrons: maxi- mum sensitivity of a counter. Feather, N.	Nov. 26, 1942	2s. 0d.
81	MS. 13	Equilibrium time in a separation plant. Peierls, R.		8s. 0d.
82	MS. 15	Effect of a stationary layer of thickness b in front of the diffusing membrane. Peierls, R.	~	8đ.
83	MS. 17	Separating effect of a pass- age through capillary. Peierls, R.		2s. 0d.
84	MS. 21	Effect of boundary layer for swept membranes. Fuchs, K.	-	8s. 8d.
85	MS. 39	Clusius-Dickel device as	_	4s. 0d.
86	MS.P 2A (Revised version of MS.P.2)	gland. Peierls, R. Critical conditions in neu- tron multiplication. Pryce, M. H. L.	-	2s. 8d.
87	MS. 85	Effect of a scattering container on the critical radius and time constant. Fuchs, K.		£1
88	Br. 106	Preparation of metallic X* by electrolysis of the fused salts. Haworth, W. N.	_	1s. 4d.
89	Br. 199	The "Metalectric" furnace (with sketch). Tom- linson (Metalectric Co., Ltd.). Haworth, W. N.	-	2s. 0d.
90	MS. 88	Note on the compression at the diffuser entry in compressor I.Z.I. Fried- lander, F. G.	recd. July 1943	6s. 0d.
91	Br. 393	Density of resonance neutrons in hydrogenous media near the source. Booker, D. V., Broda, E., Kowarski, I.	Jan. 1944	14s. 8d.
92	Br. 448	Receiving time and count- ing errors in discrimina- tors and scaling units. Cranshaw, T. E.	Jan. 18, 1944	10s. 8d.
93	Br. 391	Distribution of slow neutrons in rarefled hydrogenous media. Kowarski, L., West, D.	Feb. 1944	16s. 8d.
94	Br. 469	The determination of X* in urine. A proposed modification and some notes on the method. Jones, A. G.	Aug. 3, 1944	2s. 8d.
95	MS. 115	A new method of determining the time constant of a sphere in a container. Wilson, A. H.	Aug. 16, 1944	6s. 0d.
96	BI. 68	Extraction of protactin- ium from a silicaceous raw material. Broda, E., Wright P. K.	March 1946	2s. 0d.
97	MS. 12A (Revised version)	Separation of isotopes. Peierls, R., Fuchs, K.	Feb. 25, 1947	10s. 0d.
98	Br. 732a (Revised version of Br. 732)	The spectrographic analysis of uranium. Walsh, A.	March 1947	10s. 0d.
* Uranium.				