

WASC 171

W 01 486

ERDE Photos

+ WASC-171-18725

DOCUMENTS.

M.I. BRANCH

Brian,

The photographs detailed below have been selected for submission to the Press office for national and technical press circulation. Would you please return All the proofs to me, together with (1) a brief Technical explanation of the selected pictures, and (2) suggestions for captions by 30/v/68

Photographs selected 8729
8815/4

Ki.
(D.J. Henshaw)

The suggestion was also made to have a photograph of moulds actually being changed.

Requests for copies of any photographs should be put on this letter. If needed for Open Day please Heavily underline.

Contacts ✓ 8756/1-12
8814/7-12
8819/1-2
8815/1-5

Prints 8729
8756/10, 12, 7.
8728
8727

1126.

8815.

Low cost interchangeable cavity plate injection moulds for producing standard test specimens. ~~The~~ The bolster set and cavity plates were designed in the Polymer Development & Applications Group

8729

This high vacuum equipment is used in the preparation of extremely reactive intermediates for synthesising vinyl polymers with specified percentages of head to head linkages. The procedure requires the complete absence of interfering entities such as oxygen and water, and the apparatus is designed such that the operations can be carried out without contact with high vacuum grease

MINISTRY OF AVIATION MEMORANDUM

From: (Branch and Address)

To:19.....

Telephone No.

Extn.

Our ref:

Your ref:

14/ Design Engineer employ on
"patchboard" to finalise the design of
Electronic logic unit using Integrated circuits.
Waveforms are being studied on
an oscilloscope to check correct
operation of circuit at all stages
The electronic unit will be used
in conjunction with a mechanical test
rig to determine the dynamic properties
of plastic pipe sections.

MINISTRY OF AVIATION MEMORANDUM

From: (Branch and Address)

To:19.....

Telephone No.

Extn.

Our ref:

Your ref:

8/. A junior engineer is using a two channel chart recorder to check the operation of an electronic unit. This unit will be used to control a process operation in the production of "whiskers" which are incorporated in materials to improve their mechanical properties.

26
~~19~~
11 } Missing

1. : J. Cook wiring (gap filled with print fr. transparency No 16)
2. : G. Bagg PR Heavy Mant (Print to come - negative (HN 310A) sent off) ✓ print recd 24/9/86
3. : PR Filament wiring? ———

3 September 1986

ERDE

Ministry of Aviation Memorandum

FROM : (Branch and Address)

PER.

TO :

31. 8 1968
Dr Duntan
SHI.

Telephone No.

Extn.

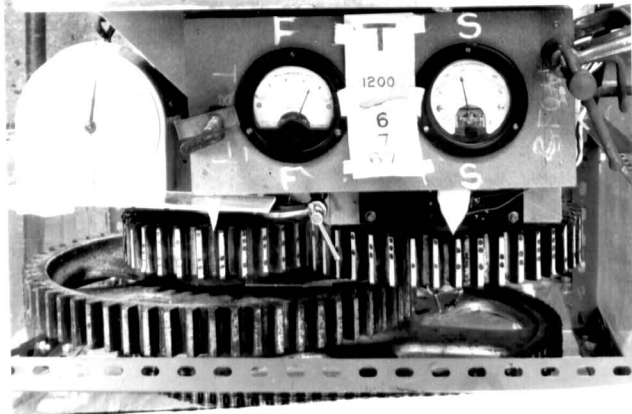
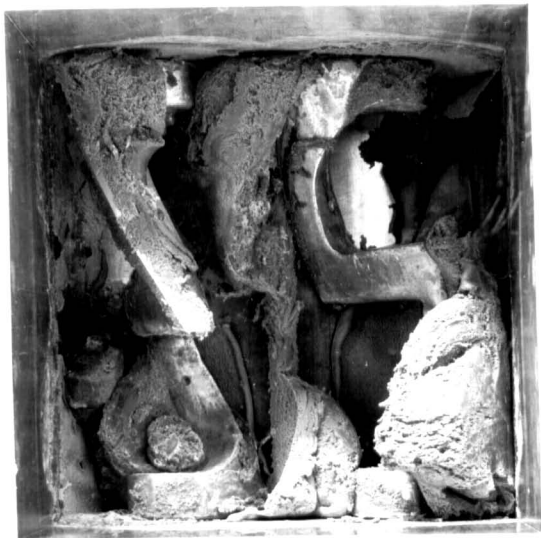
Our ref. :

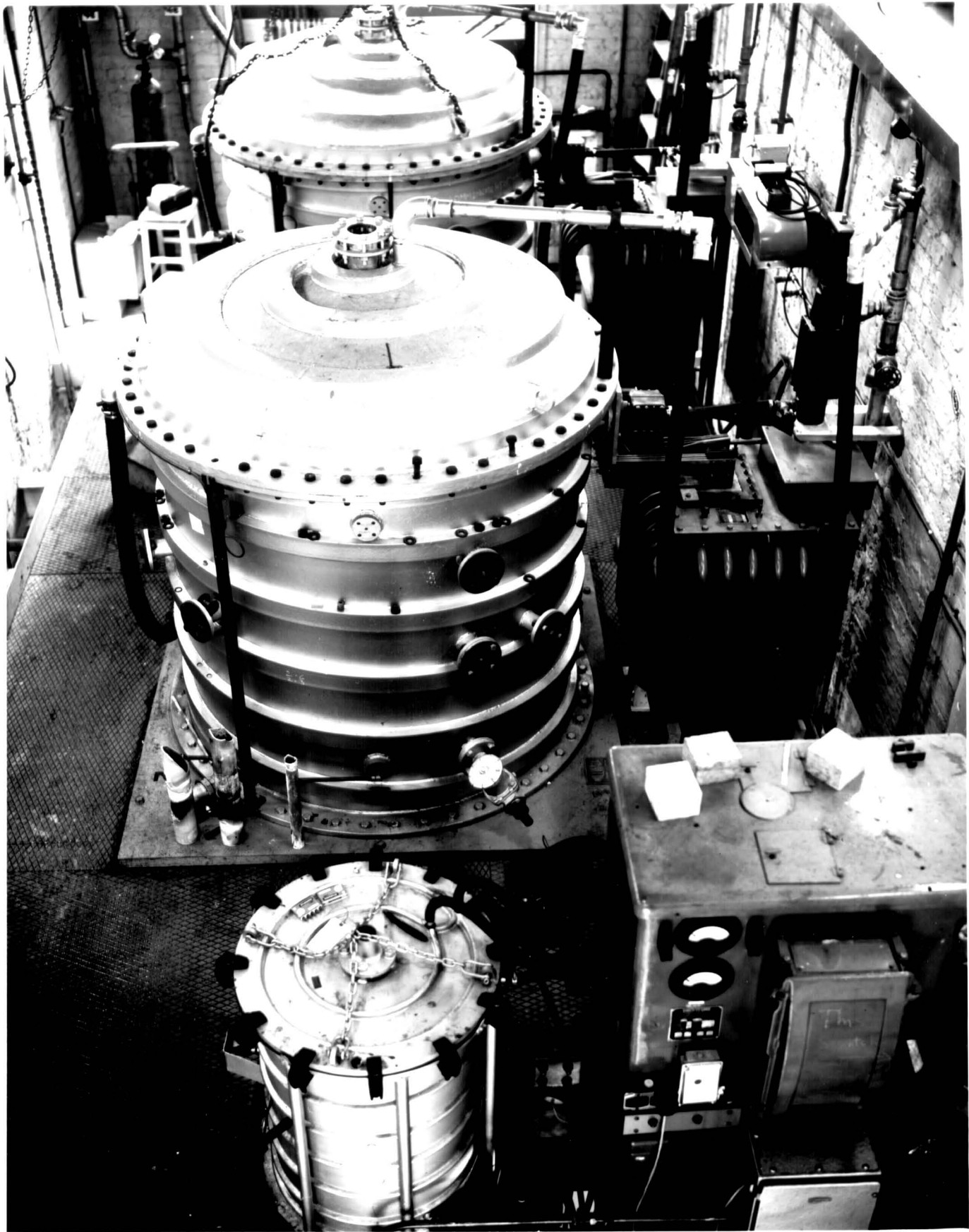
Your ref. :

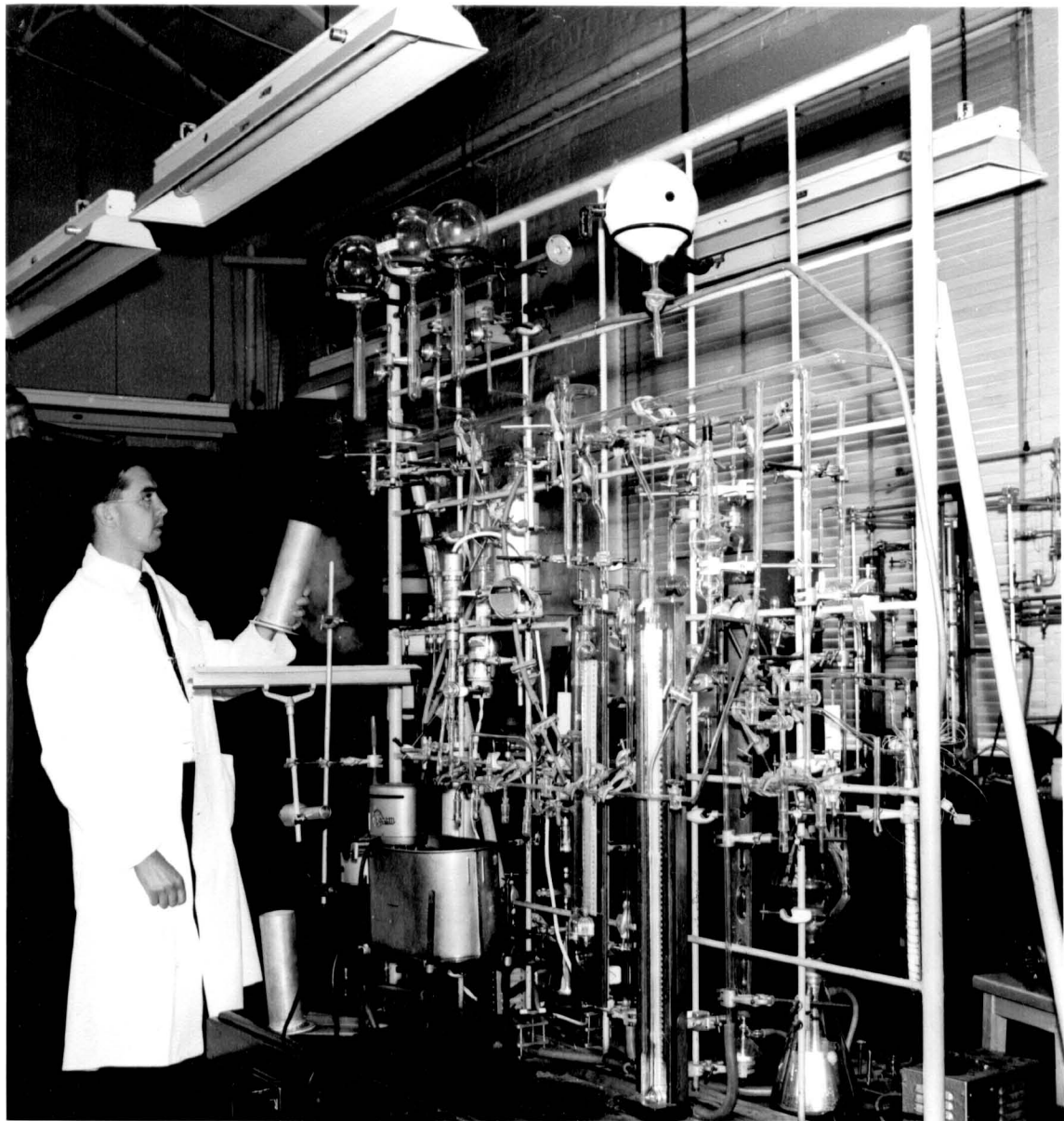
Wescott prints as promised. We hold the negatives.
If you consider including the ^{*}explosive drying packing
and plant, you should know that this plant was
designed specifically for drying liquid explosives of the
TRLOW type and ~~is~~ ^{might} be of great ^{interest}.
Its suitability for liquid explosives is because it has
an extended ~~heat~~ ^{transfer} (drying) area and

operate at low temperatures, ~~but particularly because the~~
~~liquid explosion is~~ and with controlled one-through
"plug-flow" contact or dosing times, and particularly because
the liquid explosion is not subjected to mechanical turbulence
or friction. These features, except the last, may be useful
for non-explosive, high B.P., heat sensitive liquids, but
~~there will be few cases where in most civil applications~~
mechanical turbulence should be permissible and might
allow more efficient high-speed flow methods.

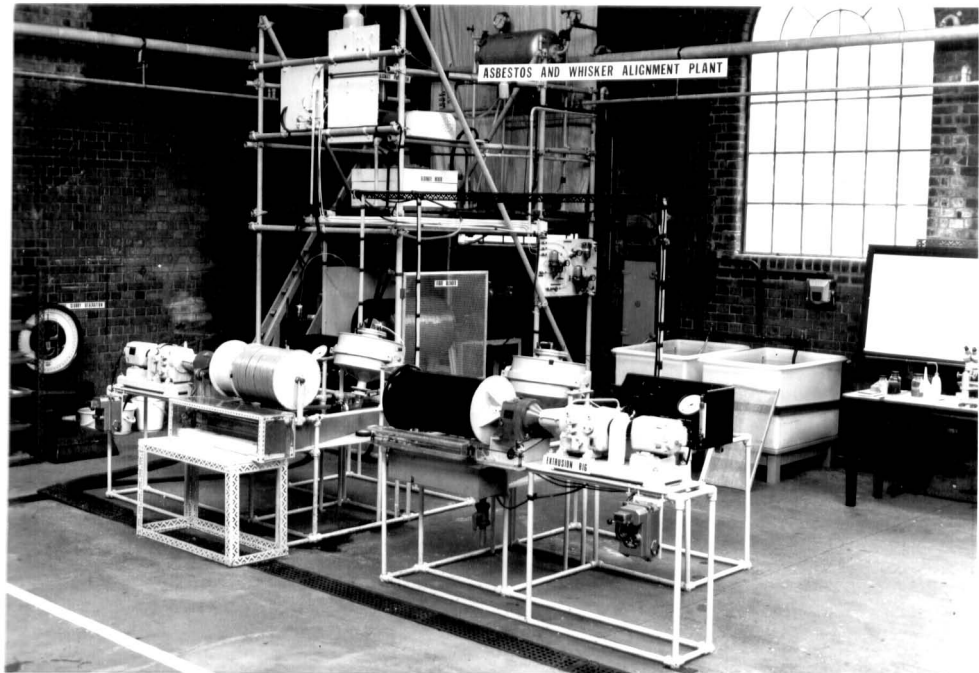
R. Tothorn.

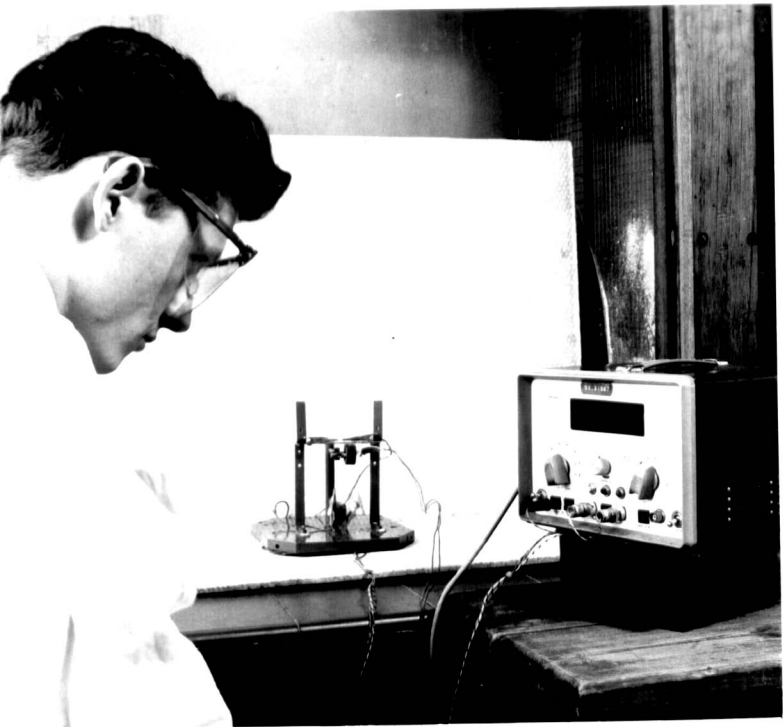


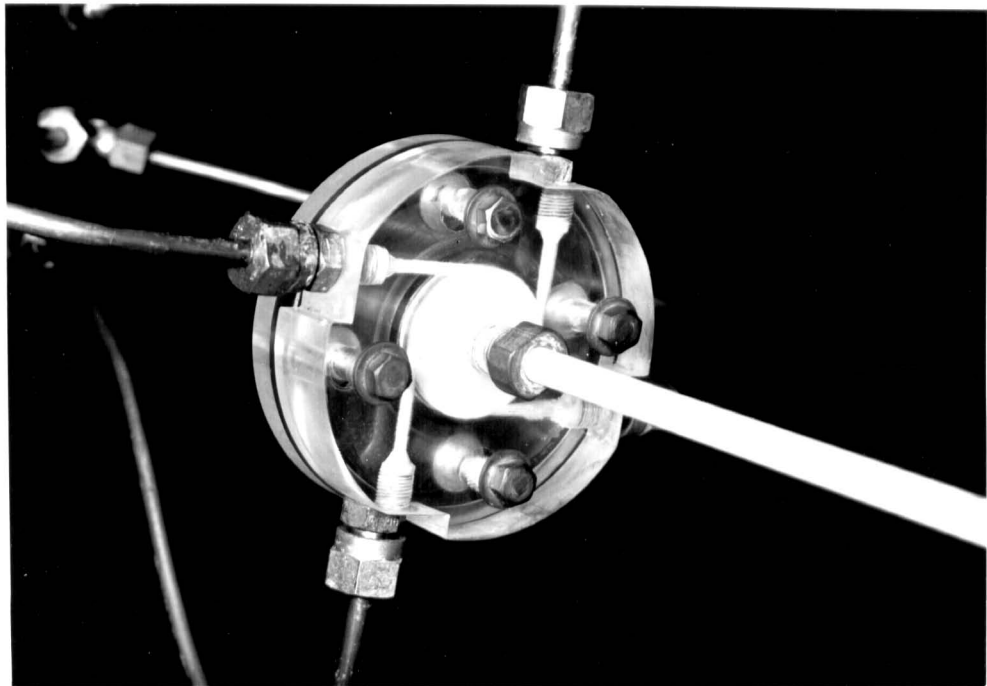


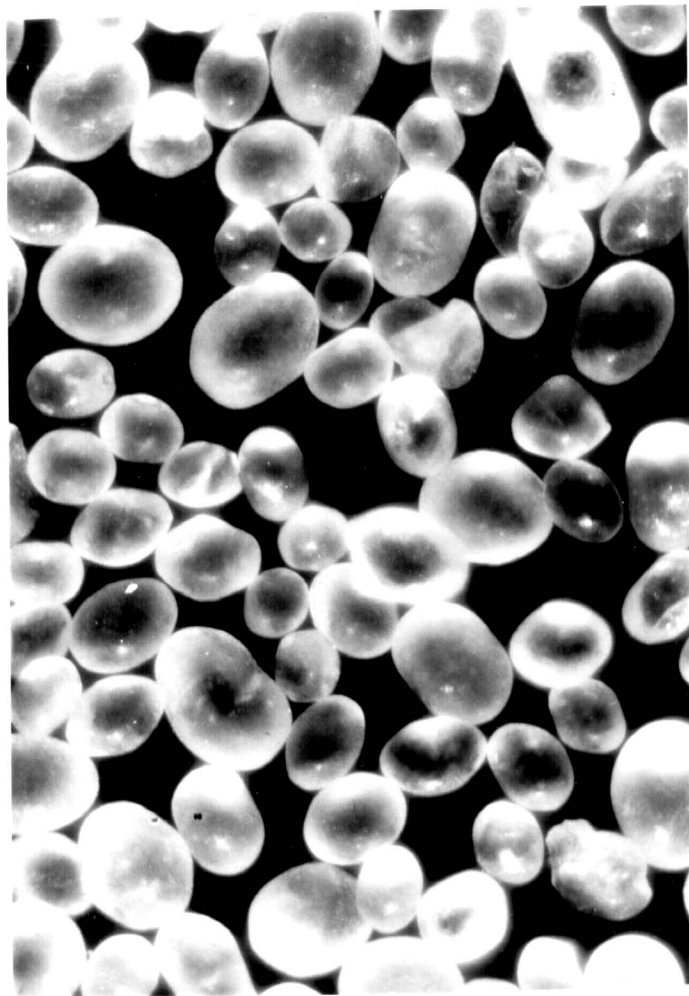


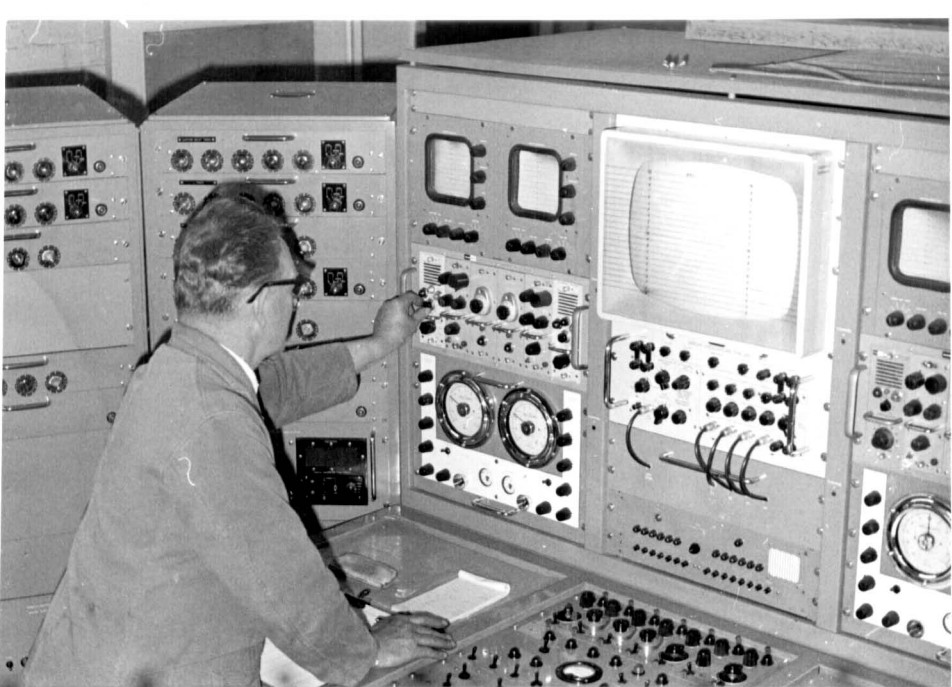
ASBESTOS AND WHISKER ALIGNMENT PLANT

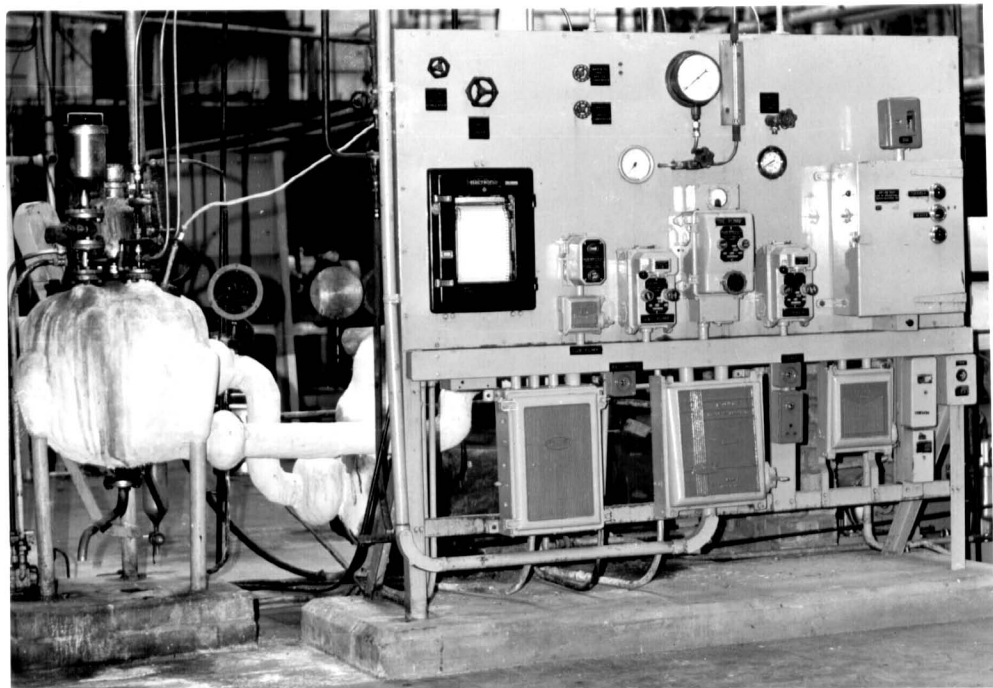


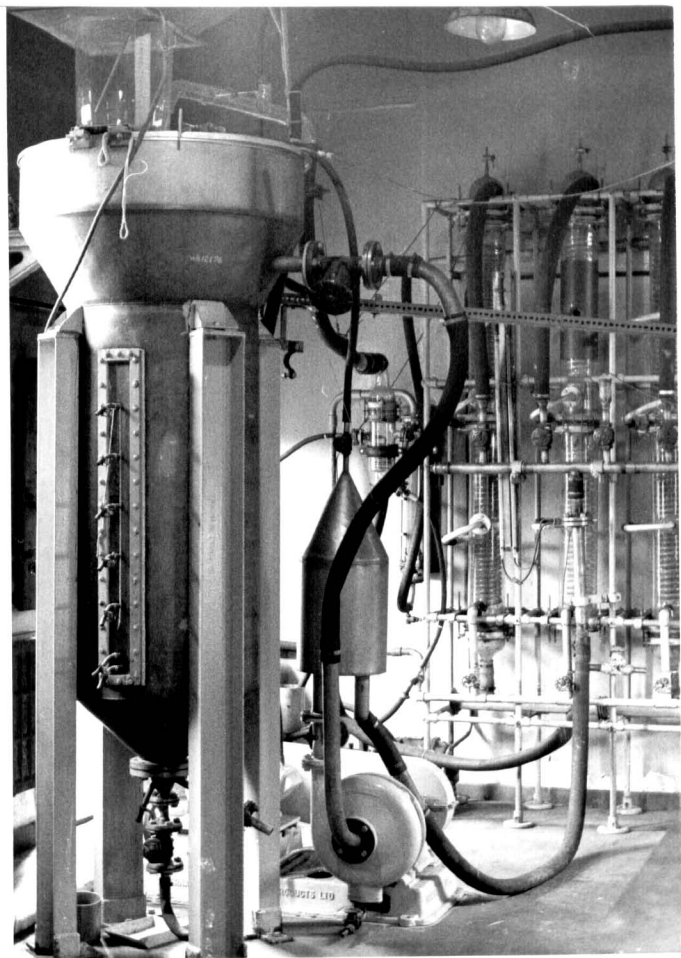


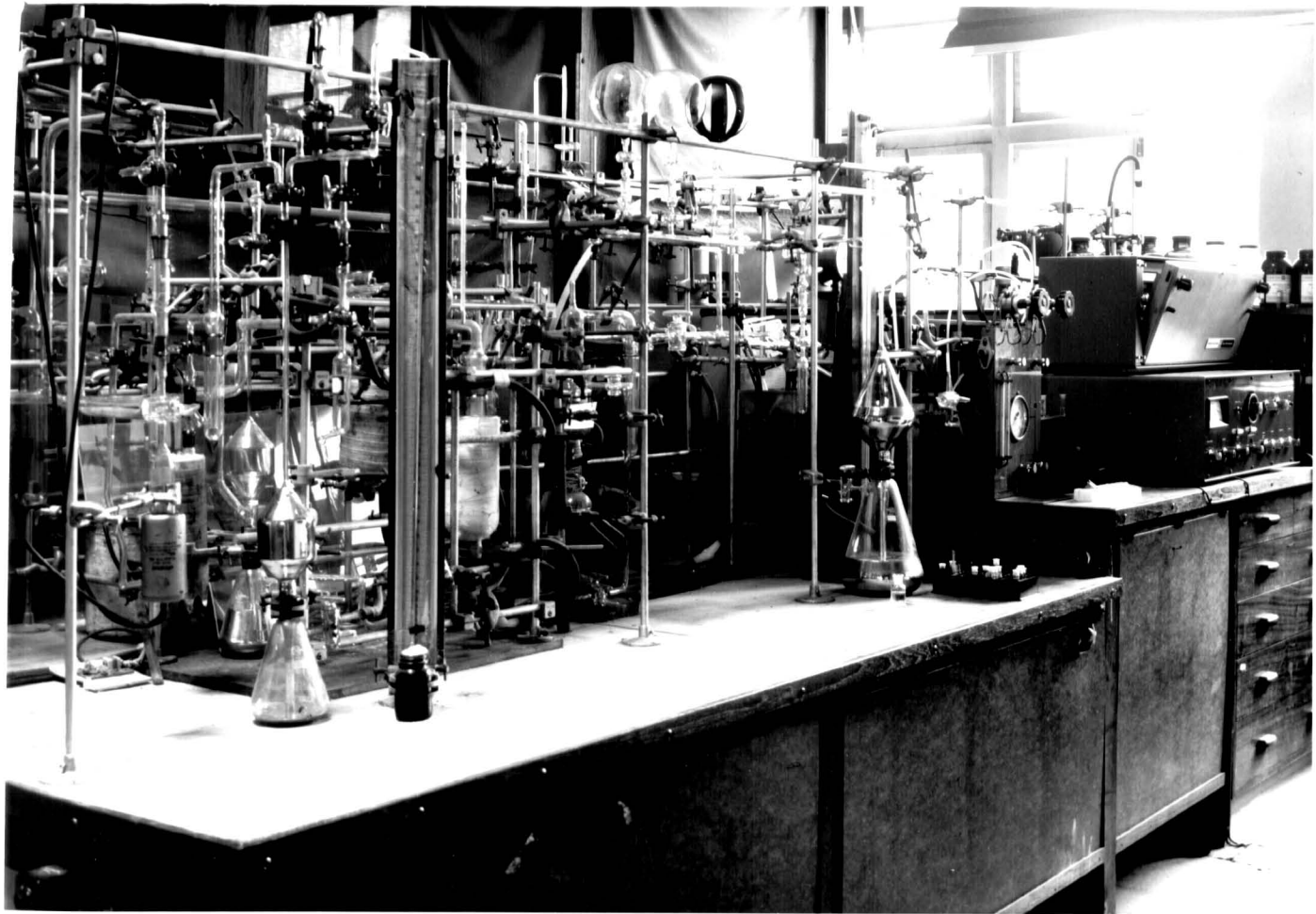


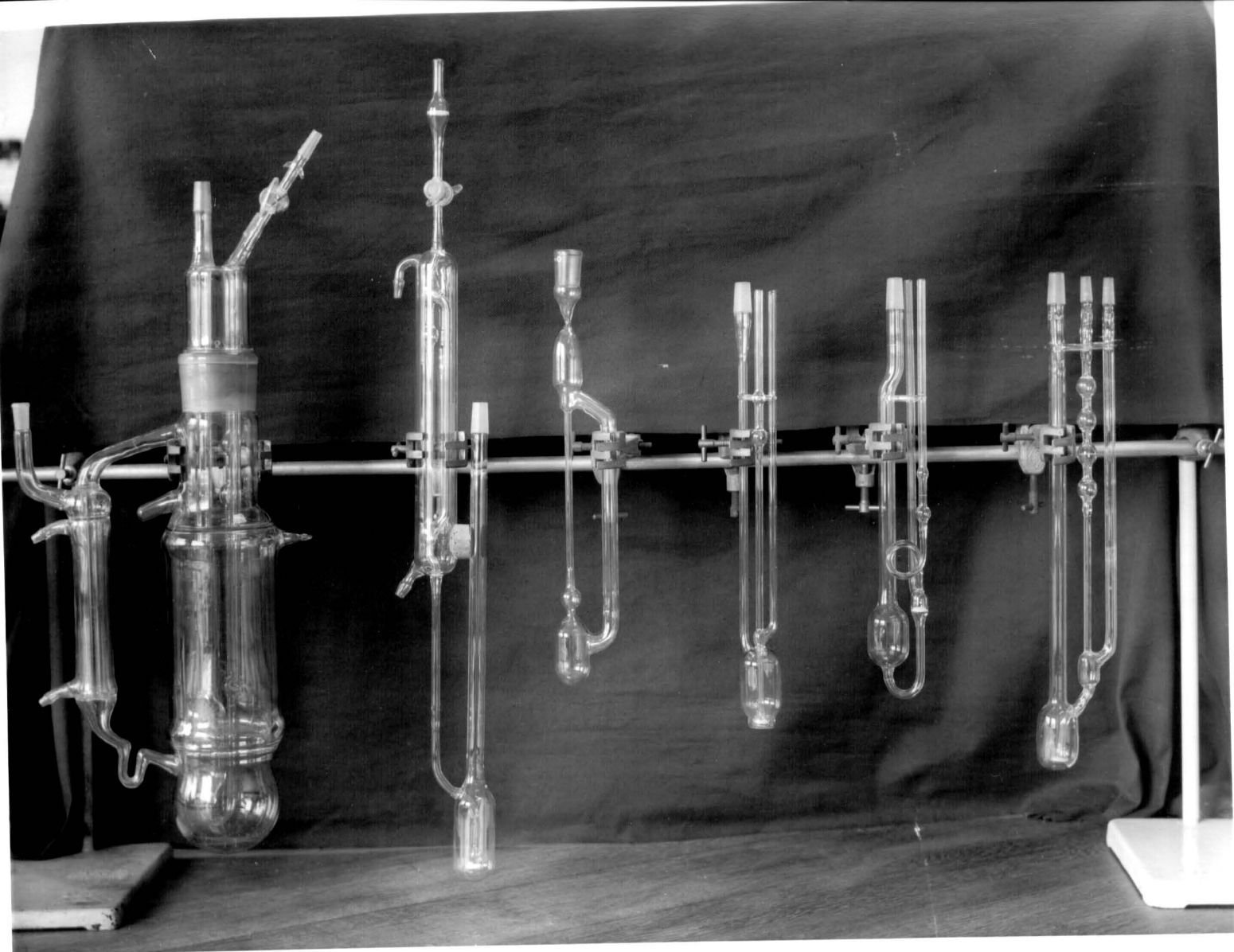






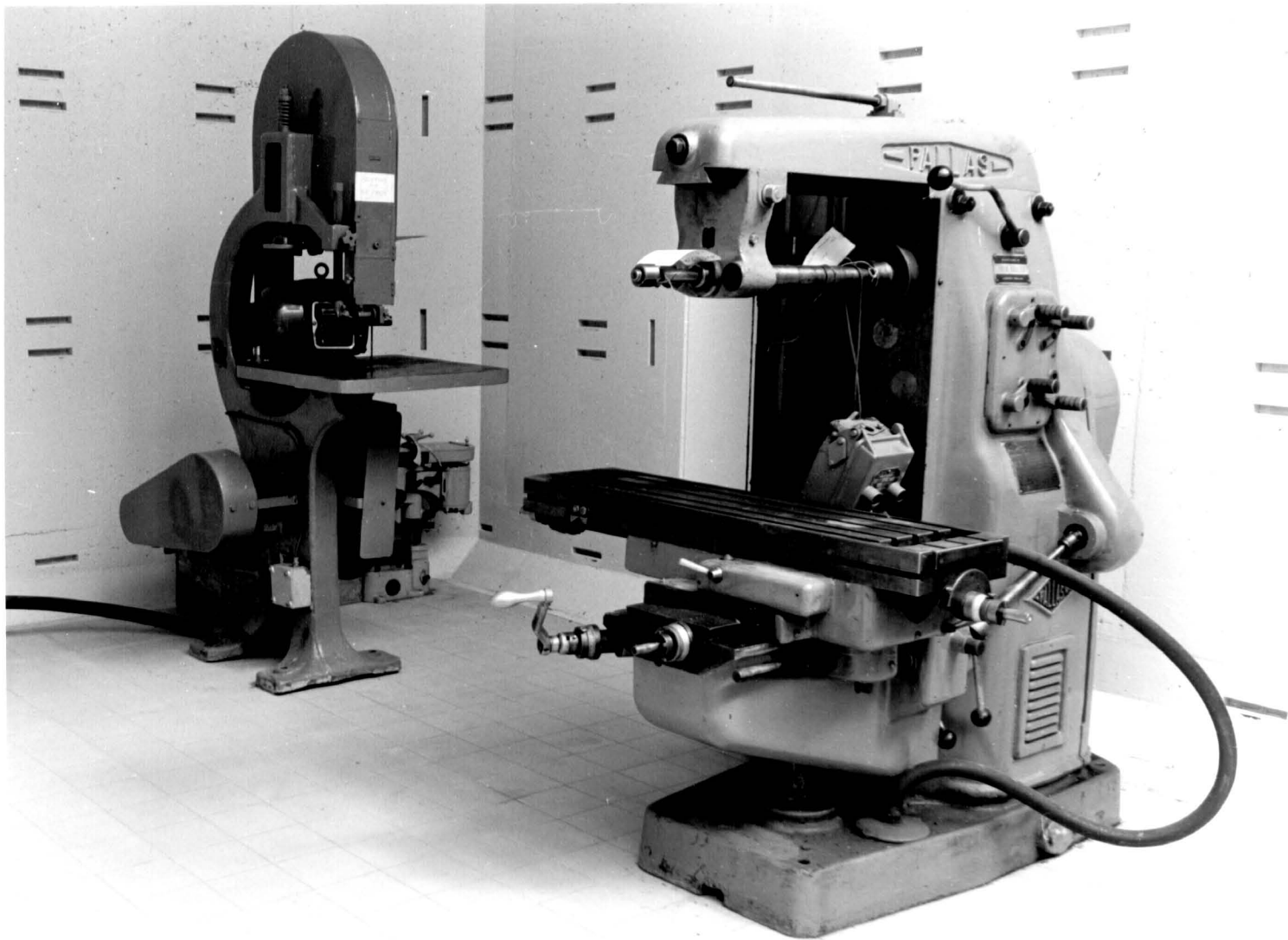


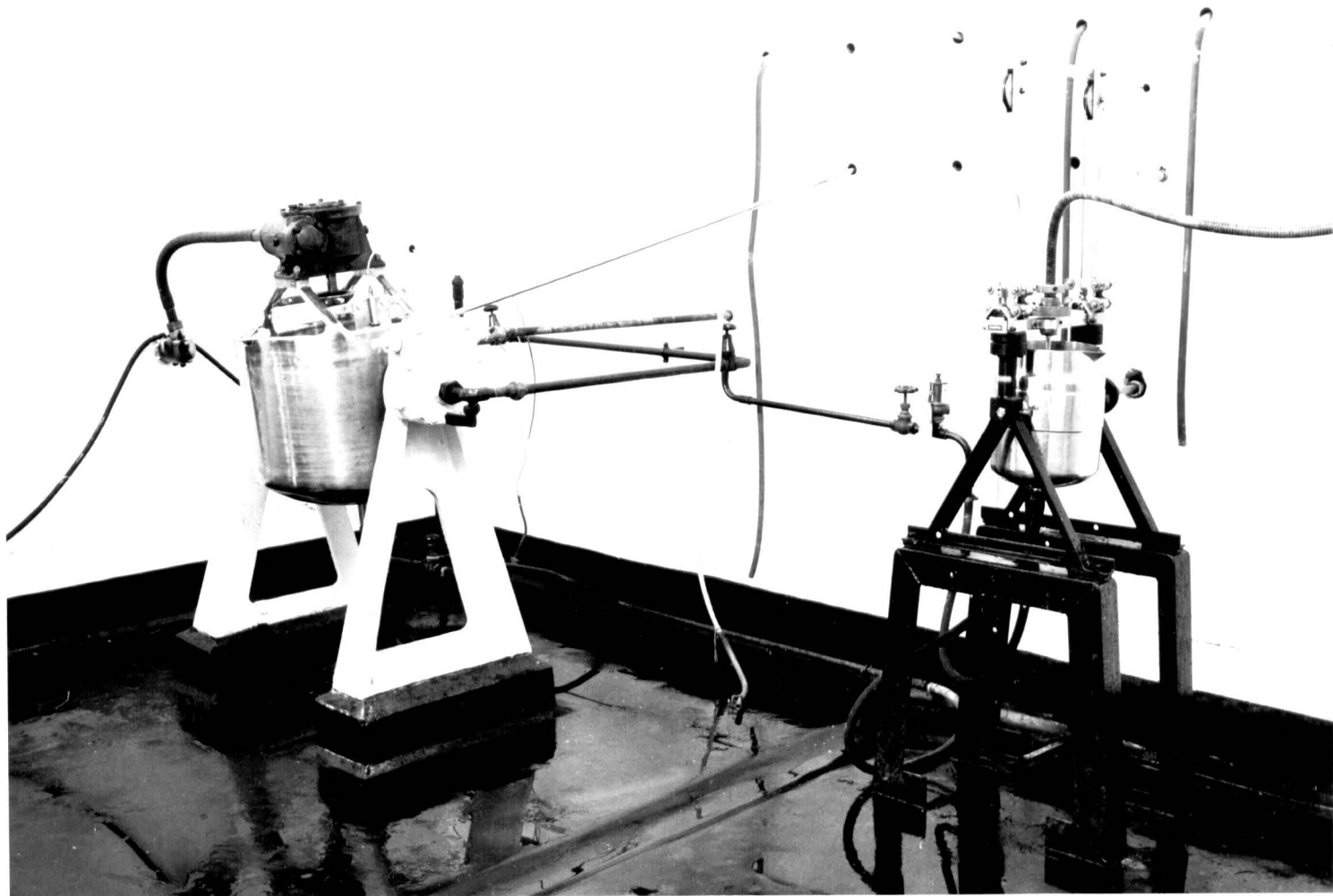


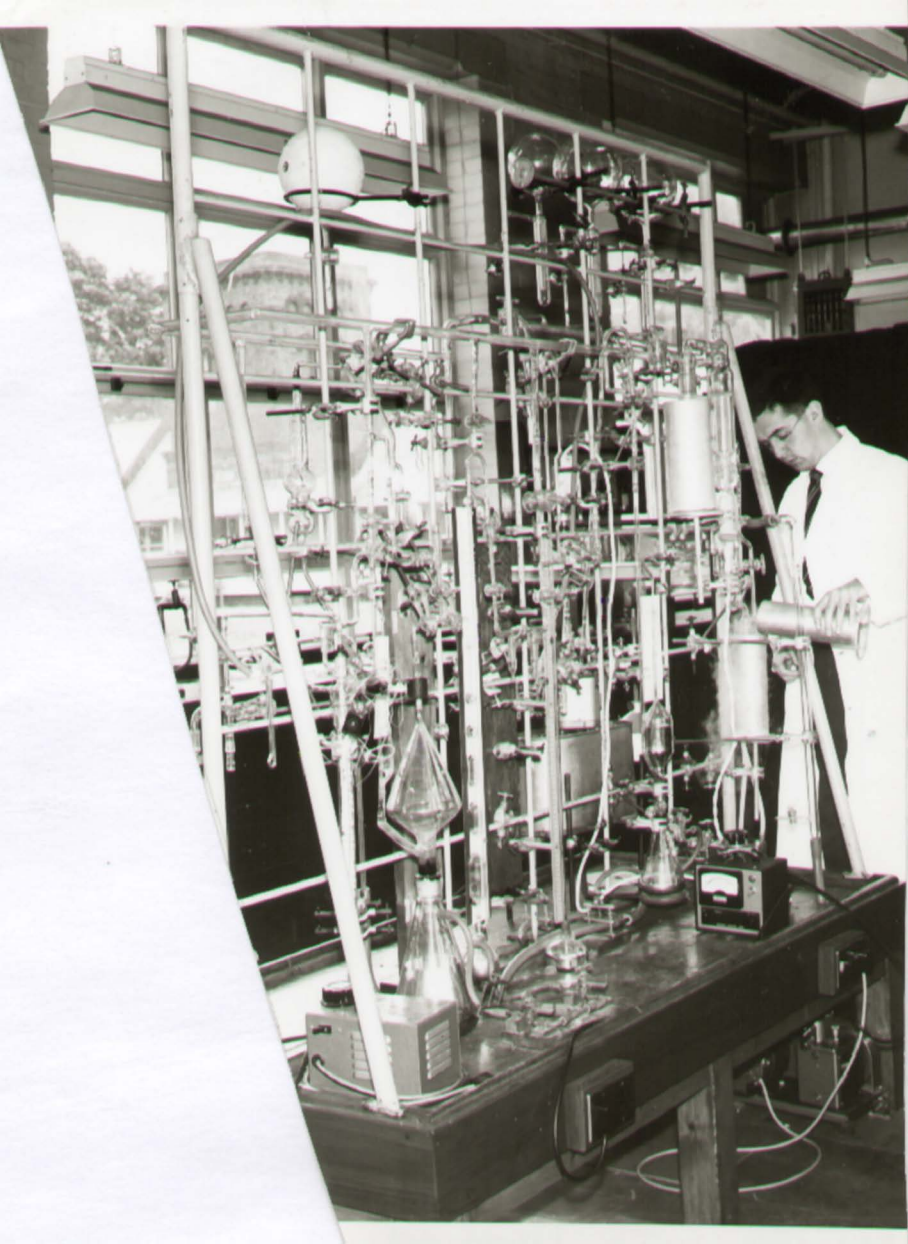












Untitled

Wasc 0171
Wai 0486
FC

Images of ERDE Activities (including Staff)

- 1 Propellant mixer viewed from above for mixer studies
- 2 Bran tubs
- 3 Gas Handling Line (Bob Shaw) L153 annexe
- 4 Extrusion or "spinning". Pilot plant for aligning
whiskers on asbestos
- 5 Ignition timing apparatus for pyrotechnics (C H Miller)
- 6 High speed jet mixer (Hartridge Roughton type) for
studying rate of precipitation
- 7 "Spheroidized" crystals made to give free flowing
properties
- 8 Control panel for proof stand (South Site) Measurement
of performance of rocket motor in static test firing
- 9 Stainless steel hot-oil, stirred vacuum vessel for
polymer preparation
- 10 Oslo type crystallizer
- 11 Gas Handling line L 153 annexe
- 12 Experimental viscometers of various sorts
- 13 Remote manufacturing facility (John Kemp)
- 14 Remote manufacturing facility (John Kemp)
- 15 Milling machine and band saw
- 16 Remotely controlled mixing tubs?
- 17 Gas Handling Line (Bob Shaw) L153 annexe (image cut on
angle)

