

**MONASH UNIVERSITY**  
**Department of Electrical and Computer Systems Engineering**

**INVENTORY of GRAHAM BEARD MEMORIAL COLLECTION**

**JULY 1991**

**Compiled by**  
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**Notes on Inventory and Appendix**

1. The inventory lists and files items in order of an arbitrarily allocated Inventory Number (Inv. No.). Major items or those requiring a significant space for description are listed one to a page, in vertical format. Inv. Nos 001 to 100 have been allocated for such items, with Nos 32 to 100 currently unused.

Other items have (generally) been listed in a horizontal tabular format, under common headings for items of the same category and location. All items of the same category therefore do not necessarily have consecutive Inv. Nos.

The Table of Contents shows each of the categories used in the tabulations, and lists with each the Inventory Number of all items in that category. Where appropriate the same inventory number may appear in more than one category.

This arrangement of the inventory should allow additional items and/or categories to be easily added in the future.

2. The Appendix provides copies of existing information on an item, such as display cards, test reports, etc. It does not include copies of any instruction manuals or more voluminous documentation stored with the item. Reference to a display card, etc. in the Inventory indicates that a copy of the card is included in the Appendix. Information in the Appendix is filed in Inv. No. order.
3. Each item in the inventory (except in the individual display cabinets) has a small self-adhesive label marked 'Museum' and the Inventory Number.
4. The inventory **does not** include the radio transmitting and receiving valves in the HV Lab, the wall cabinets or elsewhere.

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<b>Category</b>	<b>Inventory Numbers</b>
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Mechanical Measuring	025, 026, 028,
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Power Equipment	010, 011, 022
Telegraph Equipment	016, 023, 028
Induction Coils	015, 027
Quartz Crystals	018, 019
Loud Speakers	101 to 111
Crystal Radio Receivers	112 to 118
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<b>Category</b>	<b>Inventory Numbers</b>
Calculators/Computers	024, 029, 030, 031
Rotary Transformers	010, 011

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<b>Inventory No.</b>	001
<b>Location</b>	HV Lab
<b>Item</b>	Cambridge Portable Potentiometer Workshop Pattern
<b>Serial No.</b>	L-336022
<b>Other marks</b>	See Source/History
<b>Manufacturer</b>	Cambridge Instrument Company Ltd. 12 Grovenor Place, London SW1.
<b>Date of Manuf.</b>	1957
<b>Description</b>	Cat. No. 44226 (with potential source) Wooden cased. Ranges    X1    0-20mV    smallest slide-wire div. = .001mV X5    0-100mV    smallest slide-wire div. = 0.05mV
<b>Condition</b>	Operation not checked. Galvo free. Std. cell not checked. One case latch needs adjusting. Otherwise in good condition.
<b>Source/History</b>	<b>Label: –</b> Commonwealth of Australia. Department of Supply Plant No. DSL 205
<b>Rec. Action</b>	Inspect internally (std. cell) and minor clean-up.
<b>Comments</b>	In its time, the popular precision thermocouple emf measuring device. Suitable for display.

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<b>Inventory No.</b>	002
<b>Location</b>	HV Lab
<b>Item</b>	Ediswan Testing Set (DC)
<b>Serial No.</b>	62359 (on instrument)
<b>Other marks</b>	–
<b>Manufacturer</b>	–
<b>Date of Manuf.</b>	–
<b>Description</b>	Wooden case, hinged lid, compartment with lid housing three shunts 150A, 75A, 15A & two sets potential leads. Four inch mirror scale 0-150, subdivisions value 5, knife-edge pointer. Separate terminals for Amps, Volts & Millivolts, Volts/Amps c/o switch. ranges 30/150/300/600 Volts, .15/75/150 Amps (w. shunts), 300 Millivolts.
<b>Condition</b>	Operation not checked. Good condition. Shunts slightly corroding.
<b>Source/History</b>	–
<b>Rec. Action</b>	Clean & repaint shunts
<b>Comments</b>	–

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<b>Inventory No.</b>	003
<b>Location</b>	HV Lab
<b>Item</b>	Kelvin bridge ratio arms
<b>Serial No.</b>	L241060
<b>Other marks</b>	See Source/History
<b>Manufacturer</b>	Cambridge Instrument Company Ltd. London and Cambridge
<b>Date of Manuf.</b>	–
<b>Description</b>	For Measurement of low resistance values Calibrated in Ohms Absolute Current 30A continuous, 100A maximum $X = \text{Ratio} \times (R = r)$ Terminals X current X potential Ratios $\times$ .01, .05, .1, .5, 1, 5, 10, 50, 100 R (plug) .008, .006, .004, .002, 0 r (slide) .003–, .0001 smallest division = $1/10 \times .0001$
<b>Condition</b>	Operation not checked. Appearance good.
<b>Source/History</b>	<b>Label:–</b> Department of Supply Plant No DSLM 4679
<b>Rec. Action</b>	–
<b>Comments</b>	Suitable for display

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<b>Inventory No.</b>	004
<b>Location</b>	HV Lab
<b>Item</b>	Portable Sub-Standard Dynamometer Voltmeter
<b>Serial No.</b>	303330
<b>Other marks</b>	Original hand lettered Works Test Certificate inside lid, dated 9 August 1928.
<b>Manufacturer</b>	Nalder Bros & Thompson Ltd. 97a Dalston Lane London
<b>Date of Manuf.</b>	1928
<b>Description</b>	Wooden case with lid. Six inch mirror scale, 0 – 300, knife edge pointer. terminals – common/300V/600V, press key. 300V range-resistance 6480 $\Omega$ temp coeff. 0.02%/degC, 600V range-resistance 12960 $\Omega$ temp coeff 0.01%/degC. Scale marked 'BS Sub-Standard'.
<b>Condition</b>	Operation not checked. Appearance good.
<b>Source/History</b>	–
<b>Rec. Action</b>	Polish panel & brassware
<b>Comments</b>	Suitable for display.



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<b>Inventory No.</b>	005
<b>Location</b>	HV Lab
<b>Item</b>	Reflecting light spot galvanometer
<b>Serial No.</b>	163305
<b>Other marks</b>	Works test Certificate (test date 26-3-63) & Instruction sheet in galvo case. See also Source/History,
<b>Manufacturer</b>	H. Tinsley & Co. Ltd. Werndee Hall South Nortwood SE25
<b>Date of Manuf.</b>	1963
<b>Description</b>	Portable wooden case internally reflecting light spot galvanometer Type SR4/45. Double light spot (high/low sensitivity). Scale 5 – 0 – 5 cm, 1mm divisions. Resistance 10 $\Omega$ , periodic time 2 secs, sensitivity 245 mm/ $\mu$ A. Lamp 6V, with 230v transformer & flex.
<b>Condition</b>	Operation not checked. Appearance excellent.
<b>Source/History</b>	<b>Label:–</b> Monash School of Engineering No 63/739A
<b>Rec. Action</b>	–
<b>Comments</b>	Suitable for display

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<b>Inventory No.</b>	006
<b>Location</b>	HV Lab
<b>Item</b>	DC Resistance Standard
<b>Serial No.</b>	3862/1960
<b>Other marks</b>	See Source/History
<b>Manufacturer</b>	H W Sullivan London
<b>Date of Manuf.</b>	1960 ?
<b>Description</b>	Black metal case with fibre top panel, air cooled. 0.1 ohm Absolute Units. manganin. Max. Current 3 Amps.
<b>Condition</b>	Operation not checked. Appearance good except stick-on label needs cleaning off.
<b>Source/History</b>	Dymo label 05-512-1972 <b>Label:–</b> Monash School of Engineering No. 138 79/0365
<b>Rec. Action</b>	General clean up
<b>Comments</b>	Suitable for display

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<b>Inventory No.</b>	007
<b>Location</b>	HV Lab
<b>Item</b>	Weston Foot-Candle Meter
<b>Serial No.</b>	None
<b>Other marks</b>	See Source/History
<b>Manufacturer</b>	Weston Electrical Instrument Corp. Newark N.J. USA.
<b>Date of Manuf.</b>	–
<b>Description</b>	2 1/2 inch scale, 0-50, 0-250, 0-500, Foot Candles Range switch 'LOW' 'MED' 'HIGH', centre OFF. Black case with lid, swing up PE cell. Directions in lid.
<b>Condition</b>	Operates. Appearance good.
<b>Source/History</b>	<b>Label:–</b> Monash Electrical Engineering
<b>Rec. Action</b>	Polish case
<b>Comments</b>	Suitable for display

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<b>Inventory No.</b>	008
<b>Location</b>	HV Lab
<b>Item</b>	Heavy Current Bridge Arm
<b>Serial No.</b>	1529106
<b>Other marks</b>	Cat No 43000. See also Source/History
<b>Manufacturer</b>	Leeds and Northrup Co. Philadelphia, Pennsylvania
<b>Date of Manuf.</b>	–
<b>Description</b>	Plug Values 0, .001, .002, .003, .004, .005, .006, .007, .008, .009 Slide 0–110 with vernier 0-5-10
<b>Condition</b>	Flexible lead needs attention, otherwise good.
<b>Source/History</b>	Black Dymo label 05-501-1935 Red Dymo label 055/1/103 <b>Label:–</b> Monash School of Engineering 138 79/0363 EQ 138-0402 Elec. Eng.
<b>Rec. Action</b>	Fix leads.
<b>Comments</b>	Suitable for display

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<b>Inventory No.</b>	009
<b>Location</b>	HV Lab
<b>Item</b>	Cambridge Electric
<b>Serial No.</b>	Case C601982 Recorder C578277 Electronic Chassis C533798
<b>Other marks</b>	–
<b>Manufacturer</b>	Cambridge Instrument Company Ltd. London and Cambridge
<b>Date of Manuf.</b>	–
<b>Description</b>	Wooden cased. vacuum tube operated. 12 tubes inc. 6 × 6V6GT. heated stylus recording on 4 cm width treated paper chart. No leads, no accessories, no electrodes, no instruction manual. Canvas carrying cover.
<b>Condition</b>	Good except for lack of leads etc.
<b>Source/History</b>	–
<b>Rec. Action</b>	–
<b>Comments</b>	Not relevant to possible display themes. Not much interest without accessories etc.

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<b>Inventory No.</b>	010
<b>Location</b>	HV Lab
<b>Item</b>	Rotary Transformer
<b>Serial No.</b>	See nameplate data
<b>Other marks</b>	<b>Nameplate Data:–</b> Transformer rotary – HT 11 watts No 1A.ZA42170 Output 310/365 volts 0.03 amps Serial No NBA 54181/114
<b>Manufacturer</b>	Newton Bros (Derby) Ltd.
<b>Date of Manuf.</b>	–1962?
<b>Description</b>	Double commutator motor / generator. Input voltage not stated. In unsealed carton, refer In. No. 011 for carton details.
<b>Condition</b>	Excellent.
<b>Source/History</b>	Ex REME.
<b>Rec. Action</b>	–
<b>Comments</b>	Suitable for display

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<b>Inventory No.</b>	011				
<b>Location</b>	HV Lab				
<b>Item</b>	Rotary Transformer				
<b>Serial No.</b>	In sealed carton				
<b>Other marks</b>	See description				
<b>Manufacturer</b>	See Inv. No. 010				
<b>Date of Manuf.</b>	1963 ?				
<b>Description</b>	<p>In carton with heat sealed coating. Item similar to Inv. No. 010. Labels on carton are:–</p> <table><tr><td>1. Z1.ZA 42170 Transformers Rotary HT 11w No. 1A PPQ.1</td><td>2. Primary Standard December 1962 P &amp; P BLD4 SIG</td></tr><tr><td>3. Not to be opened until required for operational use</td><td>4. Inspected by REME 7 Feb. 1964</td></tr></table>	1. Z1.ZA 42170 Transformers Rotary HT 11w No. 1A PPQ.1	2. Primary Standard December 1962 P & P BLD4 SIG	3. Not to be opened until required for operational use	4. Inspected by REME 7 Feb. 1964
1. Z1.ZA 42170 Transformers Rotary HT 11w No. 1A PPQ.1	2. Primary Standard December 1962 P & P BLD4 SIG				
3. Not to be opened until required for operational use	4. Inspected by REME 7 Feb. 1964				
<b>Condition</b>	Original carton, sealing intact.				
<b>Source/History</b>	REME.				
<b>Rec. Action</b>	–				
<b>Comments</b>	Suitable for display				

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<b>Inventory No.</b>	012
<b>Location</b>	HV Lab
<b>Item</b>	Aislometer
<b>Serial No.</b>	625
<b>Other marks</b>	–
<b>Manufacturer</b>	State Electricity Commission of Victoria
<b>Date of Manuf.</b>	–
<b>Description</b>	Uncalibrated electrostatic voltmeter for use in live insulator testing. two Ebonite insulators with spring wire contacts, mica window for viewing vane deflection. Used with live stick. Compare with cylindrical carrying case.
<b>Condition</b>	Poor. One mounting screw broken off.
<b>Source/History</b>	Ex SECV.
<b>Rec. Action</b>	SECV could probably repair, but no action proposed unless item fits a display theme.
<b>Comments</b>	–



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<b>Inventory No.</b>	013
<b>Location</b>	HV Lab
<b>Item</b>	Watthour Meter
<b>Serial No.</b>	815105
<b>Other marks</b>	–
<b>Manufacturer</b>	Electricity Meter Manufacturing Co. Pty. Ltd. Sydney & Melbourne.
<b>Date of Manuf.</b>	Is almost a current design.
<b>Description</b>	House service pattern in black moulded case, mounted on panel with connecting leads. Type BAZ 5-20 amps, volts 230, Phase 1, Wire 2, 50 Hz. Revs per Kwh 800. Pointer type dials, direct reading in Kwh.
<b>Condition</b>	Good.
<b>Source/History</b>	No property markings.
<b>Rec. Action</b>	–
<b>Comments</b>	Not a significant item.

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<b>Inventory No.</b>	014
<b>Location</b>	HV Lab
<b>Item</b>	AC-DC Potentiometer
<b>Serial No.</b>	10237
<b>Other marks</b>	<b>On wooden cover:–</b> Dr. C.V. Drysdale's Alternating and Continuous Current Potentiometer Patent Sole manufacturers H. Tinsley & Co. London SE <b>On Unit:–</b> Tinsley's Universal Potentiometer H. Tinsley & Co. London SE
<b>Manufacturer</b>	See above
<b>Date of Manuf.</b>	Estimated as early 1900's
<b>Description</b>	The instrument comprises the standard Tinsley DC potentiometer of the time, with a phase shifter, Weston dynamometer voltmeter, selection and change-over switches and terminal panels for connection of galvanometers, DC and AC measuring and supply voltages. Measures voltage as magnitude and phase from reference voltage.
<b>Condition</b>	Needs major recondition. Ebonite panels encrusted, brass corroding. Knobs/Keys broken, rheostat marked NBG etc.
<b>Source/History</b>	–
<b>Rec. Action</b>	Recondition to operating condition and display.
<b>Comments</b>	Possibly the most technically significant or the measuring instruments in the collection.

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<b>Inventory No.</b>	015
<b>Location</b>	HV Lab
<b>Item</b>	Induction Coil
<b>Serial No.</b>	–
<b>Other marks</b>	Screws and spring marked "Castle"
<b>Manufacturer</b>	–
<b>Date of Manuf.</b>	–
<b>Description</b>	Wooden case 12.5 × 7.5 × 6.3 cm
<b>Condition</b>	Needs polishing.
<b>Source/History</b>	–
<b>Rec. Action</b>	–
<b>Comments</b>	Not of particular interest.

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<b>Inventory No.</b>	016
<b>Location</b>	HV Lab
<b>Item</b>	Morse Key
<b>Serial No.</b>	61261
<b>Other marks</b>	–
<b>Manufacturer</b>	Signalling Equipment Ltd. Potters Bar, MIDDX.
<b>Date of Manuf.</b>	–
<b>Description</b>	Key with buzzer and two bars on wooden base.
<b>Condition</b>	Needs polishing.
<b>Source/History</b>	–
<b>Rec. Action</b>	–
<b>Comments</b>	Not of particular interest.

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<b>Inventory No.</b>	017
<b>Location</b>	HV Lab
<b>Item</b>	Standard Scale
<b>Serial No.</b>	3699
<b>Other marks</b>	NPL62637 See also Source/History
<b>Manufacturer</b>	Societe Genevoise D'Instruments De Physique Geneve Suisse
<b>Date of Manuf.</b>	About 1947?
<b>Description</b>	40 inch 58% Nickel Steel Scale, one inch graduations, H Section, 40.5 × 0.93 × 0.93 inches. Housed in wooden case. Case marked with maker's name & Type H-131, No. 3699 T68°F. Scale marked:– Acier Nickel 58%. 20°C No. 3699. NPL62637.
<b>Condition</b>	Excellent.
<b>Source/History</b>	<b>Label:–</b> C of A Dept of Supply DSLM 2373 Copies of reports from NSL to DSL 1-7-58 and 17-8-64 with reference to NPL test of 10-12-1947. Hand written letter dated 4-4-75 from NML to Aeronautical Research Labs on stability of the scale. Refer Appendix, Inv. No. 017.
<b>Rec. Action</b>	Preserve reports & letter.
<b>Comments</b>	Suitable for display

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<b>Inventory No.</b>	018
<b>Location</b>	HV Lab
<b>Item</b>	Quartz Crystal
<b>Serial No.</b>	1261
<b>Other marks</b>	–
<b>Manufacturer</b>	Bright Star Radio Glen Iris Vic. Made in Australia
<b>Date of Manuf.</b>	–
<b>Description</b>	Two pin Frequency KC 7177
<b>Condition</b>	Battered Looking.
<b>Source/History</b>	–
<b>Rec. Action</b>	None
<b>Comments</b>	Not of particular interest

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<b>Inventory No.</b>	019
<b>Location</b>	HV Lab
<b>Item</b>	Quartz Crystal
<b>Serial No.</b>	–
<b>Other marks</b>	–
<b>Manufacturer</b>	–
<b>Date of Manuf.</b>	–
<b>Description</b>	Two pin Frequency 3560 k/c
<b>Condition</b>	Battered looking
<b>Source/History</b>	–
<b>Rec. Action</b>	None
<b>Comments</b>	Not of particular interest

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<b>Inventory No.</b>	020 (balance) 020A (Accessory box)
<b>Location</b>	<b>Main Unit:–</b> Ground floor, under stairs, Bldgs. 4-6, in individual display case. <b>Accessories:–</b> HV Lab.
<b>Item</b>	Kelvin Balance & Accessories
<b>Serial No.</b>	1037
<b>Other marks</b>	–
<b>Manufacturer</b>	–
<b>Date of Manuf.</b>	–
<b>Description</b>	Refer copy of display card under Inv No 020 in Appendix.
<b>Condition</b>	Balance excellent. Reconditioned for display. Accessories need clean-up.
<b>Source/History</b>	–
<b>Rec. Action</b>	Clean-up accessories
<b>Comments</b>	A significant item.



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<b>Inventory No.</b>	021
<b>Location</b>	ground floor, under stairs Bldgs. 4-6, in individual display case.
<b>Item</b>	Kelvin Moving Iron Ammeter
<b>Serial No.</b>	–
<b>Other marks</b>	–
<b>Manufacturer</b>	–
<b>Date of Manuf.</b>	–
<b>Description</b>	Gravity controlled movement, range 0-500 Amps, direct acting, mounted on section of bus-bar. Arranged to be mounted with bus-bar vertical. Refer Inv No. 021 in Appendix for details of display card and copy of Patent.
<b>Condition</b>	Excellent. reconditioned for display
<b>Source/History</b>	–
<b>Rec. Action</b>	–
<b>Comments</b>	Interesting early item

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<b>Inventory No.</b>	022
<b>Location</b>	Ground floor, under stairs Bldgs. 4-6, in individual display case.
<b>Item</b>	DC Generator
<b>Serial No.</b>	–
<b>Other marks</b>	1080
<b>Manufacturer</b>	Elwell Parker Ltd., W'hampton.
<b>Date of Manuf.</b>	1880
<b>Description</b>	Refer Inv. No. 022 in Appendix for display card details
<b>Condition</b>	Excellent. Reconditioned for display.
<b>Source/History</b>	–
<b>Rec. Action</b>	–
<b>Comments</b>	Interesting item

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<b>Inventory No.</b>	023
<b>Location</b>	Ground floor, under stairs Bldgs. 4-6, in individual display case.
<b>Item</b>	Telegraph Receiver for unattended operation.
<b>Serial No.</b>	43
<b>Other marks</b>	–
<b>Manufacturer</b>	H W Sullivan London
<b>Date of Manuf.</b>	–
<b>Description</b>	Paper tape and ink recording. Refer Inv No. 023 in Appendix for display card details.
<b>Condition</b>	Excellent. Reconditioned for display
<b>Source/History</b>	–
<b>Rec. Action</b>	–
<b>Comments</b>	Interesting item

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<b>Inventory No.</b>	024
<b>Location</b>	Ground floor, under stairs Bldgs. 4-6, in individual display case.
<b>Item</b>	Core memory for Burrough's 5500 Digital Computer.
<b>Serial No.</b>	–
<b>Other marks</b>	–
<b>Manufacturer</b>	–
<b>Date of Manuf.</b>	–
<b>Description</b>	Refer Inv. No. 024 in Appendix for notes and copy of display card.
<b>Condition</b>	Excellent.
<b>Source/History</b>	–
<b>Rec. Action</b>	–
<b>Comments</b>	Would be better displayed as part of an appropriate theme.

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<b>Inventory No.</b>	025
<b>Location</b>	Ground floor, under stairs Bldgs. 4-6, in individual display case.
<b>Item</b>	Universal digital Tachometer
<b>Serial No.</b>	43
<b>Other marks</b>	–
<b>Manufacturer</b>	Hours project designed and manufactured by a fourth year electrical Engineering student.
<b>Date of Manuf.</b>	–
<b>Description</b>	Refer Inv. 025 in Appendix for further details. Exhibit is accompanied by photograph of a workshop made 'Production' unit.
<b>Condition</b>	Good
<b>Source/History</b>	
<b>Rec. Action</b>	
<b>Comments</b>	Could form part of a theme display

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**INVENTORY of GRAHAM BEARD MEMORIAL COLLECTION – JULY 1991**

<b>Inventory No.</b>	026
<b>Location</b>	Cabinet, stairwell Bldgs 4-6 landing Gnd to 1 <sup>st</sup> floor.
<b>Item</b>	Tangent Galvanometer
<b>Serial No.</b>	–
<b>Other marks</b>	–
<b>Manufacturer</b>	Maison Callaud Societe Electrique de l'Ouest 8 Rue Ducommier NANTES
<b>Date of Manuf.</b>	1903-04
<b>Description</b>	Approx. 25 cm dia galvanometer in wooden case with hinged lid. 6 zinc-carbon glass jar cells mounted under galvanometer and switched into circuit by 7 position switch. 6 spare glass jar cells housed in case net to galvanometer. Refer also Inv. No. 026 in Appendix for descriptive card.
<b>Condition</b>	Good. Reconditioned for display.
<b>Source/History</b>	–
<b>Rec. Action</b>	–
<b>Comment</b>	–

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<b>Inventory No.</b>	027
<b>Location</b>	Cabinet, stairwell Bldgs 4-6, landing Gnd to 1 <sup>st</sup> floor
<b>Item</b>	Ruhmkroff Induction Coil
<b>Serial No.</b>	–
<b>Other marks</b>	–
<b>Manufacturer</b>	Made in Melbourne
<b>Date of Manuf.</b>	1910
<b>Description</b>	Coil on wooden base with wooden cover. Refer Inv. No. 027 in Appendix for further details
<b>Condition</b>	Good. Reconditioned for display
<b>Source/History</b>	–
<b>Rec. Action</b>	–
<b>Comment</b>	

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<b>Inventory No.</b>	028
<b>Location</b>	Cabinet, stairwell Bldg 4-6, landing Gnd to 1 <sup>st</sup> floor
<b>Item</b>	Linesman's Detector
<b>Serial No.</b>	39781
<b>Other marks</b>	–
<b>Manufacturer</b>	Edison Swan British Manufacture
<b>Date of Manuf.</b>	–
<b>Description</b>	Galvanometer with astatic magnets, scaled 70-0-70, for use with dial in vertical plane. Terminals I-C-Q connected to a low and a high resistance coil respectively.
<b>Condition</b>	Good. Reconditioned for display.
<b>Source/History</b>	–
<b>Rec. Action</b>	–
<b>Comment</b>	–



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<b>Inventory No.</b>	029
<b>Location</b>	Cabinet, stairwell Bldg 4-6 landing Gnd to 1 <sup>st</sup> floor.
<b>Item</b>	Fuller Calculator (cylindrical slide rule)
<b>Serial No.</b>	Stamped on brass 7892 42
<b>Other marks</b>	See Source/History
<b>Manufacturer</b>	–
<b>Date of Manuf.</b>	–
<b>Description</b>	Cylinder, wood with brass fittings.
<b>Condition</b>	Worn appearance
<b>Source/History</b>	Two labels, one stick n, one loose <b>Stuck label:–</b> Property of Commonwealth of Australia MRLM 1437 <b>Loose label:–</b> Dept. of Supply DSL M1437
<b>Rec. Action</b>	Recondition as far as practicable.
<b>Comments</b>	Would be an interesting item in a theme display on 'Calculators'

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<b>Inventory No.</b>	030
<b>Location</b>	Wall cabinet, stair well, 2 <sup>nd</sup> floor, building 4
<b>Item</b>	Mechanical Calculator
<b>Serial No.</b>	–
<b>Other marks</b>	–
<b>Manufacturer</b>	–
<b>Date of Manuf.</b>	–
<b>Description</b>	–
<b>Condition</b>	Poor
<b>Source/History</b>	–
<b>Rec. Action</b>	–
<b>Comments</b>	Inspection not possible at this time as key to cabinet missing.

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**INVENTORY of GRAHAM BEARD MEMORIAL COLLECTION – JULY 1991**

<b>Inventory No.</b>	031
<b>Location</b>	Wall cabinet, stair well, 2 <sup>nd</sup> floor, building 4
<b>Item</b>	Electronic Calculator
<b>Serial No.</b>	–
<b>Other marks</b>	–
<b>Manufacturer</b>	–
<b>Date of Manuf.</b>	–
<b>Description</b>	Discrete solid state components with neon element digital display tubes
<b>Condition</b>	–
<b>Source/History</b>	–
<b>Rec. Action</b>	–
<b>Comments</b>	Inspection not possible at this time as key to cabinet missing.

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**INVENTORY of GRAHAM BEARD MEMORIAL COLLECTION – JULY 1991**

**Item.** Loud Loud Speakers:                      **Location:**      Cabinets, stair-well bldg 4-6 landing 1<sup>st</sup> to 2<sup>nd</sup> floor

<b>Inv. No.</b>	<b>Type</b>	<b>Manufacturer</b>	<b>Date</b>	<b>Cost</b>	<b>Remarks</b>
101	Amplion AR 19 Dragon Wooden horn Elecgtromagnet diaphragm	Alfred Graham & Co Great Britain	?	£5-5-0	Card with response curve
102	RCA103 Paper cone Moving armature	Radio Corporation of America	1927	\$35	Ditto
103	'Nightingale Bullphone', Metal horn Electromagnet diaphragm	H. Bullen Holywell lane. London	?	?	Ditto
104	RCA100A	Radio Corporation of America	1926	\$30	Ditto. Sold in 1928 for \$10 by Hartley's & Aust. Gen Elect.
105	Paper cone Moving coil	Rola Company (Aust) Pty. Ltd. Victoria	?	?	Card with response curve
106	Brown H4 Small horn Reed driven cone	S.G. Brown Ltd. London	1926	30/-	Ditto

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**INVENTORY of GRAHAM BEARD MEMORIAL COLLECTION – JULY 1991**

**Item. Loud Loud Speakers: Location: Cabinets, stair-well bldg 4-6 landing 1<sup>st</sup> to 2<sup>nd</sup> floor**

<b>Inv. No.</b>	<b>Type</b>	<b>Manufacturer</b>	<b>Date</b>	<b>Cost</b>	<b>Remarks</b>
107	Brown H2 Larger horn Reed driven cone Brown in colour	S.G. Brown Ltd. London	1926	£2-5-0	Card with response curve typical of In. No's 107 & 108.
108	As for Inv No. 107 but black in colour	Ditto			
109	Amphion Dynamic Moving coil	?	?	?	Card with response curve
110	Ideal Blue Spot Moving coil	?	?	?	Ditto
111	Horn type. Black Metal	?	?	?	No data known

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**INVENTORY of GRAHAM BEARD MEMORIAL COLLECTION – JULY 1991**

**Item. Crystal Radio Receivers**  
**2<sup>nd</sup> floor**

**Location: Cabinets, stair-well bldg 4-6 landing 1<sup>st</sup> to**

Inv. No.	Description	Remarks
112	Rough brown stained wood box, insulating front panel, 17cm W, 27cm D, 19cm H. Single capacitance tuning dial. Enclosed crystal. With pair headphones	
113	Miniature Ebonite case with lid, 9cm W, 12.5cm D, 4.5cm H(closed). Switched tuning coils, pri. 23 steps, sec. 8 steps. Dial for adjusting coupling, trim capacitance. Exposed crystal. With pair headphones	An interesting and complicated mechanical design. Appears professionally made. Origin not known.
114	'Astrophone Deluxe Model' in leatherette covered wooden carrying case, 25cm W, 25cm D, 9.5cm H(closed). Exposed crystal. One dial tuning. With single headphone.	Made by Amlifiers Ltd. PO Reg. No 410. Marked 'BBC' with "Type Approved by Post Master General' in a circle. the only apparent commercially made crystal set in the collection.,
115	Wood case inc front panel, 39cm W, 18cm D, 26cm H Tuning, capacitance with 2 vernier dials & 2 × 4 step coil tapping s/w's. Enclosed crystal. With pair headphones.	Circuit diagram drawn at Monash.

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**Item. Crystal Radio Receivers**  
**2<sup>nd</sup> floor**

**Location: Cabinets, stair-well bldg 4-6 landing 1<sup>st</sup> to**

<b>Inv. No.</b>	<b>Description</b>	<b>Remarks</b>
116	Wood case, Bakelite panel, 32.5cm W, 15cm D, 18cm H. Tuning, uncalibrated, 1 dial inductance, 1 dial capacitance, 7 switched coil steps. Enclosed crystal.	No headphones. This and inv. No 115 show a high level of ingenuity in getting the best performance from a crystal set.
117	Portable leatherette covered case, 13cm W, 12cm D, 13.5cm H(Closed). Single capacitor tuning. Plug-in fixed coil. Enclosed visible crystal. With pair headphones.	
118	Flat wooden base with Bakelite panel, 22cm W, 16cm D, 21cm H(over coil). Single tuning capacitor. Enclosed visible crystal. With pair headphones	

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**INVENTORY of GRAHAM BEARD MEMORIAL COLLECTION – JULY 1991**

**Item. Valve Radio Receivers**  
**2<sup>nd</sup> floor**

**Location: Cabinets, stair-well bldg 4-6 landing 1<sup>st</sup> to**

Inv. No.	Description	Remarks
119	2 valve 1-B409. 1-B406. One inductance, one capacitance tuning dial. Wood cabinet with Bakelite panel, 41cm W, 33cm D, 25cm H. Ext. batteries, A-4B, B-50V. Ext. phones/speaker.	Operational. detail card and circuit diagram drawn at Monash.
120	'The Silvatone Portable' 4 valve 1-A425, 3-A409. One inductance & one capacitance tuning dial, two trim capacitance dials. Wooden black leatherette covered case with battery space, hinged lid with built in loop aerial. O/A 41cm W, 20cm D, 43cm H Voltages A-4.5V, B-90V, C-4.5V. Ext. phones/speaker.	Ditto Made by Airzone Ltd., Sugden Place Melbourne. Supplied by A.J. Veall 247-249 Swanston St. Melbourne
121	2 valve 1-B409, 1-B406. One capacitance tuning dial with concentric trimmer. Stained wooden case, Bakelite panel, 67cm W, 26cm d, 24cm H. Ext. batteries. Ext. phones/speaker	Operational. Detail card and circuit diagram drawn at Monash.
122	3 valve 1-D, 2-E. Two capacitance tuning dials, one with concentric trim capacitance knob. Polished wood case, Bakelite panel, 49cm W, 30cm D, 33cm H. Ext. batteries, A-4V, B-30V. Ext. phones/speaker.	Detail card. Circuit diagram stuck inside case.



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**INVENTORY of GRAHAM BEARD MEMORIAL COLLECTION – JULY 1991**

**Item. Crystal Radio Receivers**  
**2<sup>nd</sup> floor**

**Location: Cabinets, stair-well bldg 4-6 landing 1<sup>st</sup> to**

Inv. No.	Description	Remarks
123	3 valve 1-184d, 1029d, 1-?. Two capacitor tuning dials. brown painted sheet metal case with loose lid, 44cm W, 28cm D, 22cm H. Ext. batteries, voltages not known. Ext. phones/speaker.	No detail card or circuit diagram. Operational?
124	'Crosley 51' 2 × UX201A valves. Tuning – switched & variable inductance & variable capacitance. Wooden case, ebonite panel, 28cm W, 14cm de, 15cm H. Ext. batteries A-4V, B-45V, C-4V. Ext Phones/speaker.	Operational. Detail card and circuit diagram drawn at Monash. Made 1924 by Crosley radio Corporation, Cincinnati, USA. Original cost \$45.50 (inc separate audio amp.
125	'Monarch Baby' 1-12B8GT, 1-23L7GT, 1-23L7GT valves. 2 gang tuning, dial with station identification. Brown moulded plastic case, 22cm W, 14cm D, 15cm H. Mains operated 240V AC. 5 inch internal speaker.	Operational. details card but no circuit diagram. Made 1939-40 by Eclipse Radio Pty. Ltd. South Melbourne

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**INVENTORY of GRAHAM BEARD MEMORIAL COLLECTION – JULY 1991**

**Item. Valve Radio Receivers**  
**2<sup>nd</sup> floor**

**Location: Cabinets, stair-well bldg 4-6 landing 1<sup>st</sup> to**

<b>Inv. No.</b>	<b>Description</b>	<b>Remarks</b>
126	'The Unidyne' Model 1A 1 valve Type? (with spare) Lever adjusted tuning & reactance coils. Horizontal wooden base, Bakelite panel 30/.5cm W, 20cm D, 19cm H. Batteries 2-D cells. With pair headphones.	Vintage look-a-like made 1972. Detail card but no circuit diagram. Operational?
127	Wooden cabinet, rounded top, 45cm W, 25cm D, 52cm H. Five valve 3 × 224, 1 × 245, 1 × 280, 8 inch speaker.	Circuit diagram drawn at Monash stuck inside cabinet. No display card. <b>Located in Research Manager's Office</b>
128	Astor Mickey, white moulded cabinet. Four valves 6A8G, 6B8G, 6V6G, 5Y3G. Serial No KL1607	<b>Located in Hv lab</b>
129	No used	

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INVENTORY of GRAHAM BEARD MEMORIAL COLLECTION – JULY 1991

Item: Radio Accessories  
2<sup>nd</sup> floor

Location: Cabinets, stair-well bldg 4-6 landing 1<sup>st</sup> to

Inv. No.	Description	Remarks
130 131 132 133 134	Tuning coils. Five coils of various sizes with fixed windings	
135 136 137 138 139	Tuning coils. Five coils with adjustable coupling of various types.	An interesting range of designs.
140	Calibrated dial.	
141	Small knob.	
142 143 144	Porcelain egg insulators Two white, one green	Used for support of outdoor aerial wires

Department of electrical and Computer Systems Engineering

INVENTORY of GRAHAM BEARD MEMORIAL COLLECTION – JULY 1991

Item. Radio Accessories  
2<sup>nd</sup> floor

Location: Cabinets, stair-well bldg 4-6 landing 1<sup>st</sup> to

Inv. No.	Description	Remarks
145 146	Two coupling transformers.	
147	Plug in coil mount.	
148	Neutrodyne coil kit of three coils, in original carton.	Marked 15/-. Made by Airzone, Sydney, under license to Hazeltine Corporation, for home constructors.
149 150 151	Three small mica capacitors.	
152 153	Two grid leaks. Glass tube enclosed resistors mounted on capacitor.	

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**INVENTORY of GRAHAM BEARD MEMORIAL COLLECTION – JULY 1991**

**Item. Valve Radio Receivers**  
**2<sup>nd</sup> floor**

**Location: Cabinets, stair-well bldg 4-6 landing 1<sup>st</sup> to**

Inv. No.	Description	Remarks
154 155 156 157 158 159 160 161 162 163	Ten glass enclosed resistors of various makes and values	
164 165 166	Three small tins with crystals.	
167	Halies detector in original box.	Price 5/8. Prov. Patent 26791-24
168	Rod or crystal in glass container.	

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**INVENTORY of GRAHAM BEARD MEMORIAL COLLECTION – JULY 1991**

**Item. Radio Accessories**  
**2<sup>nd</sup> floor**

**Location: Cabinets, stair-well bldg 4-6 landing 1<sup>st</sup> to**

<b>Inv. No.</b>	<b>Description</b>	<b>Remarks</b>
169	Sealed crystal.	
170 171 172 173 174	Enclosed adjustable crystals.	
175	'Neutron Crystostat' enclosed adjustable crystal	
176	'Lissenstat Minor' enclosed adjustable crystal.	
177 178 179	Three resistors? – one with screw ends, marked 'XL' one similar in mounting brackets, one with large spring chips.	
180	Crystal and catswhisker mounting, crystal exposed.	
181	Crystal mount (loose)	
182 183 184 185	Four catswhisker holders (loose)	

**Department of electrical and Computer Systems Engineering**

**INVENTORY of GRAHAM BEARD MEMORIAL COLLECTION – JULY 1991**

**Item. Cell/Chargers  
to 1<sup>st</sup> floor**

**Location: Cabinets, stair-well bldg 4-6 landing Gnd**

Inv. No.	Description	Remarks
186	Bottle type Bichromate Cell. Two flat carbon electrodes with one flat zinc electrode between. Cylindrical glass bottle 8.5cm diameter, with moulded cap, brass terminals and rod for raising zinc electrode. Overall height 25cm, 33cm with electrode raised. EMf is 2.03 volts	Electrolyte typically – 2 parts Sulphuric Acid (by weight) 1 part Bichromate of Potash, 12 parts water. Cell has fairly constant voltage, low resistance and high current capacity. Zinc consumed by local action when cell not at work and must be raised. Electrolyte initially orange, with bluish tint when exhausted.
187	Battery Charger, transformer with glass electrolytic cell rectifier on metal base 14x 7 cm, 13cm high overall. Nameplate:– Balkite Trickle Charger Serial No. 6677. Fansteel Products Co. Inc., North Chicago, ILL. Pat USA May 27 1924. AC V 210-230, 50-60 cycles, Watts 14. Rate Amps 0.65-0.5. Batteries 4-6 V.	Electrolytic cell has moulded cap holding electrodes. Cap marked – Balkite rectifier Type C-5A. Electrode material not known but typically aluminium in solution of ammonium sulphate or magnesium in a solution of one of the alkaline fluorides. Return electrode is usually lead. External leads cut short.

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**INVENTORY of GRAHAM BEARD MEMORIAL COLLECTION – JULY 1991**

**Item. Cell/Chargers**  
**2<sup>nd</sup> floor**

**Location: Cabinets, stair-well bldg 4-6 landing 1<sup>st</sup> to**

<b>Inv. No.</b>	<b>Description</b>	<b>Remarks</b>
188	Battery Charger, transformer and vacuum tubes. In cylindrical pressed metal case, 14cm diameter, 15cm high. Nameplate:– Philips Battery Charger No. 450 Made in Holland. 235-245 V, 40-100Hz Charge 1-3 cells (2-6 volts)at a rate of about 1.3 A 'Valves 451 and 452 must be used'	Case needs clean up and refinishing.



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**INVENTORY of GRAHAM BEARD MEMORIAL COLLECTION – JULY 1991**

**Item. Lamps/Fittings**  
**2<sup>nd</sup> floor**

**Location: Cabinets, stair-well bldg 4-6 landing 1<sup>st</sup> to**

Inv. No.	Description	Remarks
189	Siemens carbon filament lamp in original packing.	
190	Cosmos drawn wire filament lamp in original packing.	
191 192 193 194 195 196 197 198 199 200 201 202 203 204	14 house service pattern lamps of carbon, straight wire and coiled wire filaments mounted in various stands and fittings	Inv. Nos. 203, 204 have 4 pin radio valve type bases, only suitable for base down operation. Suggests these are Barretters rather than straight wire filament lamps.

**Department of electrical and Computer Systems Engineering**

**INVENTORY of GRAHAM BEARD MEMORIAL COLLECTION – JULY 1991**

**Item. Lamps/Fittings  
to 1<sup>st</sup> floor**

**Location: Cabinets, stair-well bldg 4-6 landing Gnd**

<b>Inv. No.</b>	<b>Description</b>	<b>Remarks</b>
205 206 207	3 unmounted house service pattern lamps.	
208	Philips Australia 1000w, 240-250v, lamp. Giant Edison screw base.	Contemporary production.
209 210	12v, 32CP automotive type lamp, small BC base, with socket Ditto, no socket.	
211	32v, 1000w high power aviation lamp. Westinghouse USA V1/428160. Two copper cylindrical contacts. Mounted in stand.	
212	Rotary wall switch, porcelain and brass	
213	Bayonet double adaptor, porcelain and brass	

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**INVENTORY of GRAHAM BEARD MEMORIAL COLLECTION – JULY 1991**

**Item. Electrostatic Equipment**  
**to 1st floor**

**Location: Cabinets, stair-well bldg 4-6 landing Gnd**

<b>Inv. No.</b>	<b>Description</b>	<b>Remarks</b>
214	Glass plate electrostatic machine for generating electrostatic charge. Glass plate 23 inches diameter.	Descriptive card
215	Universal discharger – pair of metal tongs with insulating handle.	Descriptive card
216	Clamp for puncturing cards with an electric spark.	Descriptive card
217	Gold leaf electroscope.	Descriptive card
218	Crooke's tube – mounted on stand.	Descriptive card
219	Insulated stand – wooden top glass legs	Descriptive card
220	Part of carbon arc lamp	Descriptive card
221 222	Handle of universal discharger Ditto	Descriptive card

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**INVENTORY of GRAHAM BEARD MEMORIAL COLLECTION – JULY 1991**

**Item. Valve Radio Receivers  
to 1<sup>st</sup> floor**

**Location: Cabinets, stair-well bldg 4-6 landing Gnd**

<b>Inv. No.</b>	<b>Description</b>	<b>Remarks</b>
223	Skeleton Leyden jar – dismountable interior and exterior metalwork.	No specific card
224	Leyden jar with diamond patterned foil/	Reference on general card on Leyden jars
225 226 227 228 229	Leyden jars with plain fixed foil – various sizes.	General descriptive card
230	Small wooden box with two terminals and sliding contact.	No card. Function not known.
231 232	4cm dia. cloth covered metal plate with wooden handle 5cm ditto	No card

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**INVENTORY of GRAHAM BEARD MEMORIAL COLLECTION – JULY 1991**

**Item. Valve Radio Receivers  
to 1<sup>st</sup> floor**

**Location: Cabinets, stair-well bldg 4-6 landing Gnd**

<b>Inv. No.</b>	<b>Description</b>	<b>Remarks</b>
233	Small candlestick on cigar box. .2 contacts in box.	No card
234	Cylindrical glass tube 5cm dia. 9.5cm long on wooden base. Brass cap with vent and electrodes top and bottom	Function no known. No card
235	Volta Meter. Cylindrical glass bowl 11cm dia. with 2 electrodes in bottom, mounted on wooden base.	Descriptive card.
236	Slide wire unit scaled 0-17 (cm) with pointer instrument scaled 25-0-25. No 6951, lamp socket and switch and key.	Function not known. No card. Instrument movement and range selector know both jammed.
237	Small glass flask with metal top.	Function not known. No card.