



# List of Papers

James Dwyer McGee FRS

Imperial College Archives

## INTRODUCTORY NOTE

Emeritus Professor J D McGee was born at Canberra, Australian Capital Territory, in 1903. He held the chair of Applied Physics at Imperial College from 1954-71, becoming a Fellow of the Royal Society in 1966. In his retirement he was appointed a Senior Research Fellow in the Physics Department.

When he left Imperial College in 1980 he presented the collection of papers listed here to the college archives. There is no restriction on access to them.

J Pingree  
December, 1986

## ADDENDUM

Professor James Dwyer McGEE died on 28th February 1987

List of correspondence and papers of Professor J D McGee

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- 1/1 Biographical information. miscellaneous personal correspondence
- 1/2 Lectures.
- 1/3 History of electronic imaging. 57 [6] ff, 20 photographs.  
Typescript. [1978?]
- 1 **BAUM, William Alvin (1924- )**. Mount Wilson and Palomar  
Observatories.  
Manufacture of projectors and graticules. Includes correspondence  
with Stanley Jeffers, L Rheinberg of Graticules Ltd and H W & G  
Hobbs. 13/4/61 - 7/7/69
- 2 **BAUM PROJECTOR**  
Correspondence on sales, finances of experimental microprojector:  
with H W & G Hobbs, and others. 15/3/62 - 23/3/66  
  
G Hobbs died February 1966.
- 3 **BAUM PROJECTOR DRAWINGS**  
Baum projector parts and drawings supplied by H W Hobbs.  
Typescript, 4ff; holograph list, 9ff. 35 drawings (copies).  
1962-66.
- 4 **BLACKETT, Patrick Maynard Stuart, Baron Blackett of Chelsea**  
(1897-1974)  
Imperial College Physics department and other matters. Proposal  
for microwave group at the College, 21/1/59; correspondence on  
Anglo Australian Observatory, 1967; memorandum by JDM on the  
present state of development and availability of image tubes,  
1/5/67. 7/10/55 - 19/1/72  
  
see also ROYAL SOCIETY
- 5 **BOWDEN, Bertram Vivian Baron Bowden of Chesterfield.**  
(1910- )  
Correspondence on research work and workers etc. 18/1/55 -  
31/12/63
- 6/1 **BRITISH FOOD MANUFACTURING INDUSTRIES RESEARCH ASSOCIATION**  
Two letters each from Clifford L Walters and Geoffrey S D Weir on  
joint research on the detection of the oxidative deterioration of  
foods by the chemiluminescence emitted. 25/10/76 - 11/2/77

- 7           **CAMBRIDGE. The University**  
Award of DSc. degree to JDM. Includes lists of publications on  
'The Physics of photo electronic devices'. 7/8/64 - 3/5/65
- 8           **CARNEGIE INSTITUTE OF WASHINGTON**  
Appointment of JDM as Research Associate of the Institution in  
recognition of his work on the development of image tubes for  
astronomy; letters from the President, Caryl Parker Haskins, the  
Director, Merle A Ture, and others; Associateship renewed for  
three years, 6 May 1963 and 1 September 1966; award of grant for  
production of sample tubes of Lenard window type, 21/11/62.  
18/1/60 - 25/3/77
- 9           **CARNEGIE INSTITUTE OF WASHINGTON. Grants**  
Correspondence with Imperial College Research Contracts Section on  
administration of the grant for work on Lenard image tubes;  
appointment of staff etc. 28/11/62 - 20/5/69
- 10          **ELECTRICAL AND MUSICAL INDUSTRIES LTD. 25th T V Anniversary**  
Papers on celebration, 19 July 1967. Invitation, copy of early  
papers by Alan Dower Blumlein 15 November 1937, and C O Browne,  
20 November 1937; photographs etc.
- 11          **SHOENBERG MEMORIAL LECTURE**  
Papers relating to the Memorial Lecture, 'The life and work of Sir  
Isaac Shoenberg, 1880-1963' given by JDM on 4 February 1971, for  
the Royal Television Society, at the Institution of Electrical  
Engineers. Includes proof of lecture, correspondence with Dr  
Elisabeth Shoenberg, photographs taken at the lecture. 1970-71
- 12          **GABOR, Dennis (1900-1979)**  
General correspondence, 24/5/56 - 8/12/72  
  
see also 14, 23/1. 28/3, below
- 13/1-13     **IMPERIAL COLLEGE**
- 13/1         Correspondence with successive Rectors, Sir Patrick Linstead and  
Lord Penney; information for the Rector's Bulletin etc. 1955-71.
- 13/2         **IMPERIAL COLLEGE, Catholic Society**  
Correspondence. 1963-73
- 13/3-13     **IMPERIAL COLLEGE, Physics Department**
- 3, 4         Administration, timetables, teaching arrangements. Two  
files. 1954-65, 1966-72.
- 5            Professors' meetings, Agenda, minutes. 16/10/69 -  
12/10/70
- 6            Heads of Groups meetings. Agenda, minutes. 12/11/70 -  
5/6/72

- 7 Appointment of personnel, research assistants etc; nominations for Fellowships of Imperial College and Royal Society. 22/12/64 - 27/7/70
- 8 Staff meetings: Astronomy group, etc, minutes, agenda. 11 March 1970 - 6 December 1971
- 9 Postgraduate courses. Correspondence, lists of students, lectures etc. 11/10/60 - 25/9/69
- 10 Future of Applied Physics, personnel etc. Correspondence with Professor P T Matthews, etc. 1/3/71 - 6/12/72
- 11 Image intensifiers. Miscellaneous papers and reports. 1956
- 12 Image intensifier. Enquiries and general correspondence. 1958-69
- 13 "Drift tube: Bergs," correspondence with E H Cooke-Yarborough of the UKAEA, and Professor William John Granville Beynon of the University of Wales, in cooperation over work on drift tube research of A D Berg. 29/5/- 20/11/64
- 14 **INSTITUTION OF ELECTRICAL ENGINEERS**  
Reviews, referee's reports etc. Notes on early days in television research, 26/11/59. Discussion of application for membership of G M Cescotti, 1962-3. Letters from Professors Gabor and Tustin. 26/11/54 - 31/12/68
- 15/1 **INSTITUTE OF PHYSICS**  
Work for the 'Journal of Scientific Instruments.' Review article on photoelectronic devices for reports on progress in physics. 31/12/65 - 23/2/76
- 16 **INSTRUMENT TECHNOLOGY LTD**  
Manufacture of Spectracon tubes. Letters on royalties from SRC, etc. 17/11/69 - 10/8/76  
  
see also NATIONAL DEVELOPMENT CORPORATION LTD, KPB/1/23/1
- 16/1 **INSTRUMENT TECHNOLOGY LTD**  
Correspondence, 1969-76
- 17 **INTERNATIONAL ASTRONOMICAL UNION**  
Meetings of Commission 9, on image tube, at general assemblies

of the IAU in 1970, 1973, 1976; possible colloquium on astronomical instruments in 1970; correspondence with Professor Nicholas Kurti, of the Hooke Committee of the Royal Society. 1967-76

- 18 **KITT PEAK NATIONAL OBSERVATORY, Arizona USA**  
 Consultant astronomer on image tube technology; principally correspondence with former student, J Ralph Powell, appointed as Assistant Astronomer, on his research in this field, supply and use of Spectracon etc. Letters from Arthur Allen Hoag, William C Livinston, Roger C Lynds, and Merle F Walker. 28/4/66 - 12/10/77
- 19 **LALLEMAND, Andre ( -1978)**  
 Arrangements for JDM to visit French laboratory; for IAU meeting at Brighton, 1971, and other occasions. 30/6/55 - 12/6/78  
see also INTERNATIONAL ASTRONOMICAL UNION
- 20 **LIPSON, Henry Solomon (1910- )**  
 Congratulations on appointment to chair; replacement of camera tube in electronic equipment in Physics Department, Manchester University; one letter from Dr A V Hanson. 28/7/55 - 8/6/67
- 21 **MOUNT WILSON AND PALOMAR OBSERVATORIES**  
 Correspondence with H W Babcock, (Director), William A Baum, Edwin W Dennison, George W Preston and others on joint experimental work on image tube; installation of Spectracon on the 200 inch telescope etc. 19/2/65 - 21/10/71  
see also BAUM, William A
- 22 **NATIONAL PHYSICAL LABORATORY**  
 Staff vacancies; work on panel of the Light Division; (report of visit, 9/9/64); arrangements for colloquia. 1963-69
- 23/1 **NATIONAL RESEARCH DEVELOPMENT CORPORATION**  
 Various patents. NRDC meeting at IC, 8/3/66; letter from Professor Gabor, 17/6/66. 8/2/55 - 1/6/73
- 23/2  
 Correspondence on Patent no.1115481 'Improvements in or relating to electron image intensifier tubes', granted to NRDC 8 December 1965, assigned to JDM 26 October 1976. Correspondence on manufacture of Spectracon tubes by Instrument Technology Ltd. Copy of American patent no.3470380 30 September 1969. One file, 1975-78.  
see also INSTRUMENT TECHNOLOGY LTD
- 24 **NUDELMAN, Sol (1922- )**  
 Publication by Plenum Press of 'Photoelectronic imaging devices

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devices' edited by Professor S Nudelman and L M Biberman.  
Arrangements for lectures at Rhode Island Summer School,  
invitation to write on history of the television camera. 15/12/69  
- 3/5/76

- 25           **RADIO CORPORATION OF AMERICA**  
Visits by members of staff to IC; terms of consultancy, 1955-68.
- 26/1,2       **ROYAL GREENWICH OBSERVATORY**  
IC Group project on design and development of an optical system  
suitable for use with an image tube for use on a telescope conde  
Spectrograph; application for SRC grant; recruitment of staff;  
appointment of Astronomer Royal, observations with Spectracon in  
South Africa, progress with Spectracon at observatory.  
Correspondence with the Astronomer Royal, Sir Richard Woolley.  
2 folders. 23/1/62 - 8/12/75
- 27           **ROYAL OBSERVATORY, Edinburgh**  
Supply and use of experimental equipment etc. Letters from  
H E Butler, M J Smyth. 28/2/62 - 9/11/70
- 28/1-7       **THE ROYAL SOCIETY**  
28/1       Recommendations for the Paul Instrument Fund; letters from  
Professor Nicholas Kurti, on behalf of the Hooke Committee, asking  
for suggestions for topics for science lectures. 2/3/67 -  
16/11/72
- 28/2       Paul Instrument Fund Committee. JDM's reports as assessor on  
Diffraction Grating Ruling Engine research at Aberdeen University  
by Reginald Victor Jones and H L S Holbourn. Professor William  
Edward Curtis, joint assessor. 19/9/56 - 7/3/60
- 28/3       Paul Instrument Fund. 'Hull project,' JDM assessor.  
Correspondence, reports on research of Profesor George Frederick  
John Garlick of Hull University on phosphors and photoconductors.  
15/7/57 - 11/12/64
- 28/4       Royal Society Soiree, 7 May 1970: exhibit by JDM of 'Cascade image  
intensifier.' 26/2/70 - 27/7/70.
- 28/5       Southern Hemisphere Telescope Committee. Possible sites for  
telescope: letters from B J Bok, Mount Stromlo Observatory. Three  
photographs of a suggested site at Mt. Woodroffe, Central  
Australia. 17/3/- 5/7/65

see also BLACKETT, Patrick Maynard Stuart

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- 28/6 Paul Instrument Fund: Professor Frederick Caleana Williams, assessor. Correspondence with the Royal Society etc, on grants to JDM, for construction of a TV system for X ray image intensification, in 1960, further grants for works on a dynamic electron image storage tube. 22/2/60 - 4/8/77
- 28/7 Grants for Joyce-Loebel microphotometer to JDM, from Scientific Investigations Grant-in Aid. Letters from Professor William Hunter McCrea. 24/2/67 - 25/7/74
- 29 **SALFORD. Royal College of Advanced Technology**  
later University of Salford  
JDM's work as External Examiner in electrical engineering; advice on appointments; work on transit tube. Letters from James H Calderwood, K A Kao. 24/2/60 - 25/4/67
- 30/1 U S A. National Aeronautics and Space Administration  
Visit to George C Marshall Space Flight Center, 1961. Photograph of JDM with local group in Guidance and Control. One folder.
- 30/2 Use of television in space research. Letters from Ernest J Ott, Technical Assistant, Astronomy. 16/7/63 - 5/1/65
- 31/1-9 **WALKER, Merle F (1926- )**  
Long and detailed correspondence on installation of Spectracon etc. at Lick Observatory. 9 folders. 20/1/62 - 31/7/79
- 32 Miscellaneous correspondence.