

<u>MS827/A</u>	<u>BIOGRAPHICAL AND PERSONAL</u>	<u>1928-1974</u>
MS827/A/1	Miscellaneous biographical notes prepared for conferences, publications etc. Letters to Principal (RHC) reporting activities of Tolansky and the Physics Department (various dates). Letters to Max Perutz describing Tolansky's early work with Lawrence Bragg and A.Fowler.	n.d.
MS827/A/2	Miscellaneous printed obituaries and tributes. Includes memoir by R.W.Ditchburn and G.D.Rochester, Biographical Memoirs of Fellows of the Royal Society, Volume 20, 1974, pp. 429 - 455.	1974
MS827/A/3	Correspondence between Robert W.Ditchburn and Mrs Tolansky regarding his memoir of Tolansky	1973
MS827/A/4	Typescript of broadcast talk for 'Science Magazine', BBC European Division, by Professor L.Pincherlo, on Tolansky's work in interferometry	1946
MS827/A/5	Armstrong College (Durham) Calendar (1932-1933), giving details of Scholarships and Prizes won by Tolansky. Miscellaneous. examination papers taken or set by Tolansky.	1928-1943
MS827/A/6	Invitations and correspondence regarding the Chair of Experimental Physics, Hebrew University of Jerusalem, and Chair of Experimental Physics, Hebrew Institute of Technology, Haifa	1952
MS827/A/7	Miscellaneous greeting cards	n.d.
MS827/A/8-9	Miscellaneous letters of condolence on death of Tolansky	c1973
MS827/A/10	Miscellaneous photographs of Tolansky, colleagues and collaborators; interferometric photographs.	n.d.

MS827/A/11	Personal files, dealing with family, tax and insurance policies, social engagements, greetings and acknowledgments etc Includes correspondence regarding the appointment to Chair of Physics, Royal Holloway College	1946-1960
MS827/A/12	Personal files, dealing with family, tax and insurance policies, social engagements, greetings and acknowledgments etc	1961-1967
MS827/A/13	Personal files, dealing with family, tax and insurance policies, social engagements, greetings and acknowledgments etc	1968-1970
MS827/A/14	Personal files, dealing with family, tax and insurance policies, social engagements, greetings and acknowledgments etc.	1971-1973
MS827/A/15	Personal files, dealing with family, tax and insurance policies, social engagements, greetings and acknowledgments etc Includes correspondence arising from Tolansky's death, obituaries, memorial services, lists of mourners and guests, circulation of information to journals and colleagues, etc	1973
MS827/A/16	Correspondence between biographers and Mrs Tolansky Miscellaneous biographical material assembled for Royal Society biographical memoir, by R.W.Ditchburn & G.D.Rochester	n.d.
MS827/A/17	Miscellaneous tributes & reiniscences of Tolansky by colleagues and others; some of these were quoted or used in part in the memoir Miscellaneous biographical material assmbled for Royal Society biographical memoir by R.W.Ditchburn & G.D.Rochester	n.d.
MS827/A/18	Miscellaneous correspondence on details of Tolansky's life & career. Miscellaneous biographical material assembled for Royal Society biographical memoir, by R.W.Ditchburn & G.D.Rochester	n.d.

**MS827/A/19 Information & bibliographical details of Tolansky's n.d.
publications (especially in diamond journals).**

<u>MS827/B</u>	<u>ROYAL HOLLOWAY COLLEGE, DEPARTMENT OF PHYSICS</u>	<u>1946-1970</u>
	Papers and correspondence regarding the administration of the Department of Physics at Royal Holloway College	
MS827/B/1	General Correspondence	1956-1958
	Correspondence concerning equipment and supplies, research grants, students's examinations and careers, along with progress reports on research completed and in progress.	
MS827/B/2	General correspondence	1959-1960
	Correspondence regarding equipment and supplies, research grants, students' examinations and careers, along with progress reports on research completed and in progress.	
MS827/B/3	Correspondence with Principal and other college authorities regarding electricity supply for physics laboratories.	1946-1951
MS827/B/4	Correspondence with Admiralty, Metropolitan-Vickers, Ministry of Supply, W.Edwards & Co. and college authorities regarding a vacuum evaporating plant for the Department of Physics.	1946-1951
MS827/B/5	Miscellaneous references and reports	1954-1963
MS827/B/6	Miscellaneous correspondence concerning applications to work in Tolansky's laboratory	1954-1956
MS827/B/7	Miscellaneous correspondence concerning applications to work in Tolansky's laboratory	1960-1967
	Includes offers to lecture in Tolansky's laboratory (1967)	

MS827/B/8 Miscellaneous correspondence on visits to and by 1954-1970
Tolansky

Includes correspondence with:

W.Edward & Co. (Vacuum Equipment) (1954)

R.Sharp, Industrial Diamond Bureau (1965)

Edward Eisner, Bell Telephone (1965)

G.Malinowski (1969-1970)

Ronald E.Kagarise (1963)

Jean Blaise (1963)

<u>MS827/C</u>	<u>NOTEBOOKS AND WORKING PAPERS</u>	<u>1935-1969</u>
MS827/C/1-	Laboratory notebooks	c1940-1946
7	<p>Notebooks, many with loose papers, containing tentative dates suggested by Dr. V.I. Little (7 notebooks) (1940-1944)</p> <p>Observations, notes, calculations and ms drafts for articles or short communications, diagrams etc for work on high resolution spectroscopy</p>	
MS827/C/8	University of Manchester examination answer book	1942
	<p>Contains miscellaneous drafts and notes on crystal structure, high resolution spectroscopy etc.</p> <p>Appendix to 'Introduction to Atomic Physics' (Longman Green, 1942).</p>	
MS827/C/9	Notes on books and articles read	n.d.
MS827/C/10	Miscellaneous drawings, diagrams and calculations.	n.d.
MS827/C/11	Miscellaneous loose working papers	n.d.
MS827/C/12	Working papers on Nuclear Spin. Loose.	1935
MS827/C/13	Work on Nuclear Spin	n.d.
	<p>Envelopes of observations and calculations of fine structure in arc spectrum.</p> <p>Envelope with ms of paper 'The Nuclear Spin of Iodine II'</p>	
MS827/C/14	Working papers, notes and calculations concerning Nuclear Spin. Ms draft for ' The Nuclear Spin of Iodine III;	n.d.

MS827/C/15	Working notes and calculations for 'Iodine Part VI Perturbation'. Ms drafts for 'The Nuclear Spin of Iodine IV'. Loose page headed 'The nuclear magnetic moment of Copper'.	n.d.
MS827/C/16	Miscellaneous notes and calculations dealing with work on Newton's Rings, fringes and interferometric experiments.	n.d.
MS827/C/17	Miscellaneous notes, calculations and drafts dealing with work on Mica.	n.d.
MS827/C/18	Miscellaneous papers, notes, drafts, diagrams and proofs dealing with work on Mica and multiple-beam interferometry (with J.Brossell), includes ms drafts of 'The Theory of multiple-beam interference' and 'Theory of multiple-beam localised fringes'.	1945
MS827/C/19	Working papers and notes on medieval jewels, especially diamonds. (Perhaps for paper 'Some folklore and the history of diamond')	1961
MS827/C/20	Miscellaneous printed source material collected by Tolansky on early history of diamond polishing and optical instruments.	n.d.
MS827/C/21	Miscellaneous notes, correspondence and material concerning lunar dust.	1969

MS827/D PUBLICATIONS**1926-1973**

Not all manuscripts survive of Tolansky's large output of published work. Many of the later articles and book reviews are accompanied by correspondence, of scientific or personal interest, with colleagues or editors; an indication of this has been made where appropriate.

MS827/D/1 Scientific articles and reports 1935

The nuclear spin of iodine. I. Fine structure in the first spark spectrum. Proc Roy. Soc.Lond.A.149 (communicated by Sir Lawrence Bragg). Typescript with ms corrections.

MS827/D/2 Scientific articles and reports 1936

(with E.Lee) Fine structure in the (2d) series limit terms of the I⁺ spectrum. Proc. Phys. Soc. 48. (communicated by Sir Lawrence Bragg). Typescript text & diagrams with ms corrections

MS827/D/3 Scientific articles and reports 1936

(with E.Lee) The sputtering of large-aperture Fabry-Perot interferometer mirrors. J.Scient. Instrum. 13. Typescript with Ms. corrections & additions.

**MS827/D/4-
5 Scientific articles and reports 1945**

The topography of crystal faces. I. The topography of a (100) face of a left-handed quartz crystal Proc.R.Soc.Lond. A 184. II. The topography of cleavage faces of mica & selenite. Proc.R.Soc.Lond. A 184. (communicated by Sir Lawrence Bragg). Typescripts with ms corrections.

MS827/D/6	Scientific articles and reports	1945
	New contributions to interferometry, with applications to crystal studies. J.Scient.Instrum.22. typescript with Ms corrections	
MS827/D/7-14	Scientific articles and reports	n.d.
	New contributions to interferometry. Parts I - VIII. Phil. Mag. 34 - 37; 2 versions of some sections, others incomplete. Typescript with ms corrections.	
MS827/D/15	Scientific articles and reports	1946
	Further interferometric studies with mica. New multiple-beam fringes and their application. Proc.R.Scoc.Lond. A 186. (communicated by Sir Lawrence Bragg). Typescript with ms corrections	
MS827/D/16	Scientific articles and reports	1946
	Low-order multi-beam interferometry. Proc.phys.Soc. 58. Typescript with ms corrections.	
MS827/D/17	Scientific articles and reports: 'Cleavage of selenite and mosaic structure' (with A.Khamsavi)	1946
	Typescript with ms corrections.	
MS827/D/18	Scientific articles and reports	1946
	'The intensity efficiency of the Fabry-Pérot interferometer both in transmission and reflection'. Physica s'Grav. 12. Typescript with ms corrections.	
MS827/D/19	Scientific articles and reports	1947
	'The reflectivity of speculum metal' (with W.K.Donaldson) . J.Scient. Instrum. 24	

- MS827/D/20 Scientific articles and reports 1947**
- (with P.G.Morris) An interferometric study of the miscas. Mineralog. Mag.28 (communicated by G.F.Claringbull). Heavily corrected typescript.
- MS827/D/21 Scientific articles and reports 1949**
- Further applications of multiple-beam interferometry. Sci. Progress, 37. Typescript with ms corrections. (This article is not listed in the bibliography of the Royal Society biographical memoir.)
- MS827/D/22 Scientific articles and reports 1950**
- (with N.Barakat) New localised multiple-beam interference fringes formed with curved thin sheets. Proc.phys.Soc. B 53 Collaborator's ms.
- MS827/D/23 Scientific articles and reports 1952**
- A high resolution surface- profile microscope. Nature, London 169. Manuscript
- MS827/D/24 Scientific articles and reports 1952**
- (with D.G.Nickols) Interferometric studies of hardness test indentations: investigations on tungstons, carbide, steel, duraluminium and tin. Phil Mag. 43. Typescript with ms corrections
- MS827/D/25 Scientific articles and reports 1952**
- A light-profile microscope for surface studies. Z.Electrochem.56. Typescript with ms corrections

- MS827/D/26 Scientific articles and reports 1952**
- The properties of metallic coatings produced by evaporation and splutterings. J.Electrodep. tech.Soc. 28
Typescript with ms corrections in another hand.
- MS827/D/27 Scientific articles and reports 1953**
- (with M.Omar) Observations on slip found in a diamond.
Phil.Mag. 44. Manuscript.
- MS827/D/28 Scientific articles and reports 1953**
- The surface of diamonds. Ind. Diam.Rev. 13. Heavily corrected typescript and reprint
- MS827/D/29 Scientific articles and reports 1953**
- The microtopography of diamond surfaces. Research 6. Manuscript.
- MS827/D/30 Scientific articles and reports 1953**
- Shadow microscopy for measurement of height. Nature,London 171. Typescript with corrections.
- MS827/D/31 Scientific articles and reports 1954**
- (with A.Halperin) Oriented ring cracks in diamond. Proc. phys.Society B.67 Manuscript, and typescript with Ms. corrections
- MS827/D/32 Scientific articles and reports 1954**
- (with V.R.Howes) Optical studies of ring cracks on glass. Proc.physics Society B.67 Manuscript, Referees' reports, proof of published paper.

- MS827/D/33 Scientific articles and report 1954**
- (with M.Omar and N.S.Pandya) The etching of diamond. I. Octahedron faces. Proc.R.Soc.London A 225. Manuscript, and typescript with Ms. corrections
- MS827/D/34 Scientific articles and reports 1954**
- (with N.S.Pandya) The etching of diamond II. Cleavage, dodecahedron and cube faces. Proc.Royal Society London A 225 Typescript with ms corrections.
- MS827/D/35-36 Scientific articles and reports 1955**
- (with V.R.Howes) Pressure crack figures on diamond faces. I. The octahedral face. II. The dodecahedral and cubic faces. Proc. R.Society London A 230. Manuscripts, corrected typescripts, calculations, photographs for plates.
- MS827/D/37 Scientific articles and reports 1956**
- A simple workshop technique for a rapid comparative grading of surface roughness. Lab. Pract. 5. Manuscript.
- MS827/D/38 Scientific articles and reports 1957**
- The microstructure of dodechedral faces of diamond.I.Natural faces. II.Etching experiments. Manuscript. Perhaps draft for work with S.Emara published in Proc Royal Society London A 239
- MS827/D/39 Scientific articles and reports 1957**
- (with V.R.Howes) Induction of ring cracks on diamond surfaces. Proc.Physics Society B.70

- MS827/D/40- Scientific articles and reports 1957**
41

(with A.R.Patel) Etching of crystal cleavages. I Mica II. Diamond octahedral cleavages. Proc.R.Society London A 243 Typescript with Ms corrections
- MS827/D/42 Scientific articles and reports 1958**

La microscope a trois dimensions. Manuscript for lecture with slides, in French. See Three dimensional microscopy J.Electron.Control 4.
- MS827/D/43 Scientific articles and reports 1958**

(with A.Halperin & S.Emara) On the occurrence of slip in diamond. Phil.Mag 3. Typescript with Ms. corrections
- MS827/D/44 Scientific articles and reports 1961**

Comparative optical and interferometric studies on synthetic diamonds. Proc.R.Society London A 263. Typescript with Ms. corrections photographs for plates, authors proof.
- MS827/D/45 Scientific articles and reports 1964**

(with E.R.Harrison) Growth history of a natural octahedral diamond. Proc.Royal Society London A 279. Typescript with Ms corrections, photographs for plates.
- MS827/D/46 Scientific articles and reports 1964**

The optical microscope today. Lab. Practice 13. Manuscript

- MS827/D/47 Scientific articles and reports 1965**
- The microstopographies of surface. (Evening Discourse at the Royal Institution, 19 Feb 1965) Proc.R.Institution Great Britain 40 Typescript with Ms corrections
- MS827/D/48 Scientific articles and reports 1965**
- Multiple-beam superposition fringes. Lab Practice 13 Manuscript; includes letter from Tolansky to Editor on the new technique described in the article.
- MS827/D/49 Scientific articles and reports 1966**
- The birefringence of natural diamond; paper read at Diamond Conference, July 1965. See note: Birefringence of diamond Nature, London 211
- MS827/D/50 Scientific articles and reports 1966**
- Birefringence of diamond; manuscript & typescript of a contribution to Science. Includes correspondence with editor in which Tolansky discusses his work on diamond, and the report, which he had originally intended to submit to Nature, London; also a note to Dr. Custers (de Beers Diamond Corporation) This article is not listed in the Bibliography of the Royal Society Biographical Memoir.
- MS827/D/51 Scientific articles and reports 1966**
- The teaching of interference fringes localisation. Physics education 1 Manuscript, and correspondence with editors.
- MS827/D/52 Scientific articles and reports 1966**
- The Woman physics student. Typescript with Ms corrections of contribution to a book on the status of women, to be published by The Six-Point Group; includes correspondence with Chairman. Not listed in the Bibliography of the Royal Society Biographical Memoir.

- MS827/D/53 Scientific articles and reports 1965-1967**
- (with H.Komatsu) Adundance of type II diamond. Science N.Y. 157. Manuscript, heavily revised typescript; includes correspondence with collaborators, editors and colleagues on research findings and photographs. (The paper was orginally considered for Nature, London)
- MS827/D/54 Scientific articles and reports 1968**
- Review of Physics Exhibition. Nature, London 217. Manuscript.
- MS827/D/55 Scientific articles and reports 1969**
- (with M.A.Rawle-Cope) Adundance of type II diamond amongst natural micro-diamonds. Ind. Diamond Rev. Manuscript; includes correspondence with editor, & Ms. of shorter version of paper, read at Diamond Conference, Bristol, 1968
- MS827/D/56 Scientific articles and reports 1969**
- Complex curvilinear designs from pendulums. Leonardo, 2; includes corresponceswith editors.
- MS827/D/57 Scientific articles and reports 1969**
- Measurement of elastic recovery in hardness indentation testing. Lab. Practice. 18. Typescript with Ms. corrections; includes correspondence with editors Technicas de Laboratorio re publication of Spanish translation of paper.
- MS827/D/58 Scientific articles and reports 1969**
- (with M.A.Rawle-Cope) Type II adundance in natural micro-diamonds. Materials Res. Bull. 4. Manuscript; includes correspondence with editors.

- MS827/D/59 Scientific articles and reports 1968 - 71**
- The Jewish contribution to modern physics. Encyclopedia Judaica, 13. Typescript also a shortened version 'The contribution of the Jew to physics' and correspondence with editors 1968 - 71 including Tolansky's discovery of a diamond in the shape of Morgan David.
- MS827/D/60 Scientific articles and reports 1969**
- Lunar diamonds? Manuscript with a note 'For Lab. Practice' Not listed in the Bibliography of Royal Society Biographical Memoir.
- MS827/D/61 Scientific articles and reports 1970**
- Multiple-beam interferometry in elementary teaching. Physics Education 5. Manuscript, typescript, correspondence with editors
- MS827/D/62 Scientific articles and reports 1970**
- The smoothness of glass surfaces. Sci. Glassblowers JI. Manuscript, typescript, correspondence with editor.
- MS827/D/63 Scientific articles and reports 1970**
- Interferometric examination of small glassy spherules and related objects in a 5-gram lunar dust sample. Geochimica et Cosmochimica Acta, 1970, Supplement I. Author's proof.
- MS827/D/64 Scientific articles and reports 1970**
- Glass spherulees in moon dust. Jena Review, 1970; manuscript, correspondence with editors including Tolansky's description of his colour photographs of moon dust (also see J/20)

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| MS827/D/65 | Scientific articles and reports | 1970 |
| | Further studies of Premier Mine small diamonds. typescript with Ms. note 'Report sent to Diamond Conference 1970' Not listed in the Bibliography of the Royal Society Biographical Memoir. | |
| MS827/D/66 | Scientific articles and reports | 1971 |
| | Moon Dust. (Evening Discourse at the Royal Institution, 20 February 1970) Proc. Royal Institution Great Britain, 44. Typescript with Ms. corrections | |
| MS827/D/67 | Scientific articles and reports | 1971 |
| | Goethe on interferometry. Nature, London 229. Correspondence, reprint of published work. | |
| MS827/D/68 | Scientific articles and report | 1971 |
| | (with M.Theyer) Bismuth oxid reflecting films for multiple-beam interferometry on steels. Lab. Practice 20. Typescript with Ms. corrections, correspondence with editor. | |
| MS827/D/69 | Scientific articles and reports | 1972 |
| | White-light multiple-beam interference fringes. Lab. Practice 21. Typescript with Ms. corrections, correspondence with editors. | |
| MS827/D/70 | Scientific articles and reports | 1972 |
| | The earliest diamond rock-drill. Israel Diamonds, 5. Typescript correspondence with editor. | |

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| MS827/D/71 | Scientific articles and reports | 1972 |
| | Lunar glass: Interferometric evidence for low-temperature shock. Science N.Y 176. Two versions of the paper (typescript) correspondence with editors. | |
| MS827/D/72 | Scientific articles and reports | 1972 |
| | The moon landings: Apollo 11 and 12. Astronomy and Space, PP. 1-15 Typescript. | |
| MS827/D/73 | Scientific articles and reports | 1972 |
| | Two typescript articles: Will diamonds be found on the Moon? and Type II micro-diamonds from South Africa; these articles weresent for publication in Industrial Diamond Annual, Volume II; includes correspondence with editors. Not listed in the Bibliography of the Royal Society Biographical Memoir. | |
| MS827/D/74 | Scientific articles and reports | 1973 |
| | Adundance of type II in South Africa diamonds. Diam. Res. Typescript with revisions. | |
| MS827/D/75 | Scientific articles and reports | n.d. |
| | 'Brief synopsis of lecture on synthetic diamons & other synthetic minerals' Ms. | |
| MS827/D/76 | Scientific articles and reports | n.d. |
| | Untitled paper on non-destructive testing of metal. Ms. | |

MS827/D/77	Scientific articles and reports	n.d.
	Untitled draft for paper on cleavage planes of mica & selenite.	
MS827/D/78	Scientific articles and reports	1963
	Article research worker on interferometric studies on very pure silicon carbide crystals; Tolansky corrected and rewrote the entire article for submission to Acta Crystallographica. Ms	
MS827/D/79	Scientific articles and reports	n.d.
	Miscellaneous drafts	
MS827/D/80-82	Scientific articles and reports	n.d.
	Miscellaneous reports on research projects undertaken by Tolansky and collaborators.	
MS827/D/83-84	Scientific articles and reports	n.d.
	Miscellaneous publications and reports by pupils & collaborators.	
MS827/D/85	Obituaries and reminiscences of colleagues	1966-1967
	Fritz Zernike. (Biog.Mem.Fellows of the Royal Society, 13, 1967, 393 -402) Correspondence with collaborators, colleagues, relatives; Ms draft & corrected typescript of Memoir. See also Royal Society files H/10	

MS827/D/86	Obituaries and reminiscences of colleagues	1967
	Correspondence with S.Akasofu re volume of tribute to Sydney Chapman on his 80th birthday; includes Tolansky's reminiscences of Chapman 1925 - 31	
MS827/D/87	Obituaries and reminiscences of colleagues	1969
	Correspondence with S.Keith Runcorn re 80th birthday dinner for W.E.Curtis, and with George D.Rochester re memoir of Curtis; includes Ms. contribution to Memoir by Tolansky.	
MS827/D/88	Obituaries and reminiscence of colleagues	1972
	Short Ms. memoir of Harry T. Flint by Tolansky, and related correspondence.	
MS827/D/89	Abstracts and book reviews	1950-1969
	Abstracts. Tolansky wrote abstracts of articles, in English, French and German, on Crystallography, Interferometry, Optics etc. for Science Abstracts, and Chemical Abstracts. Several manuscript examples have been retained, together with miscellaneous correspondence with editors.	
MS827/D/90	Book review. Max von Laue; History of Physics	1947
MS827/D/91	Book Reviews. P.Freedman: The Principle of Scientific research	1947
MS827/D/92	Book review. R.C.Johnstone: An Introduction to molecular spectra	1949
MS827/D/93	Book review. R.W.Ditchburn: Light	1963
MS827/D/94	Book review. J.Bronowski: Insight	1964

MS827/D/95	Book review. Edited by J.Burles: Diamond abrasives and tools	1964
MS827/D/96	Book Review. W.Krug et al: Contributions to interference microscopy (2 reviews)	1964
MS827/D/97	Book review. G.Causey: Electron microscopy	1962
MS827/D/98	Book review. T.L.Squires: Introduction to microwave spectroscopy	1963
MS827/D/99	Book review. A.R.Stokes: The Theory of the optical properties of inhomogenous materials	1963
MS827/D/100	Book review: 'Advanced methods of crystallography', edited by G.N.Ramachandran.	1964
MS827/D/101	Book review: 'Using the microscope' by A.L.E.Barron.	1965
MS827/D/102	Book reviews: 'Techniques for electron microscopy', edited by D.H.Kay.	1965
MS827/D/103	Book review: 'Advances in X-Ray analysis' (Volume 18) by W.M.Mueller et al	1965
MS827/D/104	Book review: 'Radiation damage in crystals' by L.T.Chadderton	1965
MS827/D/105	Book review: 'Optical pumping:an introduction' by R.A.Berheim	1965
MS827/D/106	Book review: 'Developments in applied spectroscopy' (Volume 4), edited by C.W.Davis.	1965
MS827/D/107	Book review: 'Instrumental methods of analysis' by H.H.Welland et al	1965
MS827/D/108	Book review: 'Dislocations' by J.Friedel	1964

MS827/D/109	Book review: 'Visual Illusions' by M.Luckiesh	1965
MS827/D/110	Book review: 'Development in applied Spectroscopy' by L.R.Pearson & E.L.Grove	n.d.
MS827/D/111	Book review: 'Infrared band handbook', edited by H.A.Szymanski	1966
MS827/D/112	Book review: 'Practical hints on absorption spectrometry' by J.R.Edisburg	1966
MS827/D/113	Book review: 'Ultraviolet spectra of elastometers & rubber chemicals' by V.S.Fikhtengolts et al	1966
MS827/D/114	Book review: 'Electron microscopy of thin crystals' by P.B.Hirsch et al	1965
MS827/D/115	Book review: 'The Electron microprobe', edited by T.D.McKinley et al	1966
MS827/D/116	Book Review: 'Advances in X-ray analysis', edited by G.R.Mallett et al	1966
MS827/D/117	Book Review: 'The Education of a physicist', edited by S.C.Brown & N.Clarke	1966
MS827/D/118	Book review: 'Spectroscopic Tricks', edited by L.May	1967
MS827/D/119	Book review: 'The nature of personal adaptation' by Irvin Rook	1967
	Includes letter from publishers to Tolansky	

- MS827/D/120** **Book review: 'Which? in secondary schools', published by the Consumers Association** **1967**
Includes correspondence with the Consumers Association regarding Tolansky's unfavourable review of this book.
- MS827/D/121** **Book review: 'Science & technology of industrial diamond', edited by J.Burls (2 volumes)** **1967**
Substantial essay-review with correspondence
- MS827/D/122** **Book review: 'Scanning electron microscopy' by P.R.Thornton** **1968**
- MS827/D/123** **Book review: 'Spectroscopy & structure of metal chelate compounds' by K.Nakamoto & P.J.McCarthy** **1968**
- MS827/D/124** **Book review: 'Elements of X-ray crystallography' by L.V.Azaroff:** **1968**
Includes letter by Tolansky to editor commending book
- MS827/D/125** **Book review: 'Tables of spectra lines of neutral & ionised atoms' (English translation) by A.R.Striganov** **1968**
Includes letter of congratulation from Tolansky to author.
- MS827/D/126** **Book review: 'Lecture notes on the use of the microscope' by R.Barer** **1968**
- MS827/D/127** **Book review: 'The Microscope' by G.H.Needham** **1969**
- MS827/D/128** **Book review: 'Lasers' by R.Brown** **1969**
- MS827/D/129** **Book review: 'Defects & radiation damage in metals' by M.W.Thompson** **1969**

MS827/D/130	Book review: 'The Design of optical spectrometers' by J.F.James & R.S.Sternberg	1969
MS827/D/131	Book review: 'Interference of light' by J.Sladkova	1968
MS827/D/132	Book review: 'Infrared spectroscopy' by J.E.Stewart	1970
MS827/D/133	Book review: 'Essential physics for Ordinary level' by T.B.Akrill et al	1970
MS827/D/134	Book review: 'Development in applied spectroscopy', edited by E.L.Grace	1970
MS827/D/135	Book review: 'Experiments in fibre physics' by R.B.Beevers	1970
MS827/D/136	Book review: 'Daylight & its spectrum' by S.T.Henderson	1970
MS827/D/137	Book review: 'Surface & colloid science' (Volume 3), edited by E.Matijevic	1971
MS827/D/138	Book review: 'School physics', edited by Haber-Schram et al	1971
MS827/D/139	Book review: 'New Optics' by Vasco Ronchi	1972
	Includes correspondence with editor	
MS827/D/140	Book review: 'The physical methods of chemistry' (Volume 1), edited by A.Weissburger & B.W.Rossiter	1972

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| MS827/D/141 | Book review: 'The scientist and you' by Maurice Goldsmith

Press cutting | n.d. |
| MS827/D/142 | Books: 'Hyperfine structure in line spectra and nuclear spin' (2 editions)

Author's manuscript, contained in 25 University of Manchester Examination answer books, numbered 1-25 by Tolansky, many with his indication of contents. | 1935-1947 |
| MS827/D/143 | Books: 'Hyperfine structure in line spectra and nuclear spin' (2 editions)

Authors corrected typescript with extensive ms corrections and additions. | 1935-1947 |
| MS827/D/144 | Books: 'Hyperfine structure in line spectra and nuclear spin' (2 editions)

Author's ms additions, revisions & preface for 2nd edition, with some working papers and related offprints. | 1935-1947 |
| MS827/D/145 | Books: 'Hyperfine structure in line spectra and nuclear spin' (2 editions)

Revised author's proof of 2nd edition. | 1935-1947 |
| MS827/D/146 | 'High resolution spectroscopy'

Author's corrected ms and diagrams | 1947 |
| MS827/D/147 | Books: 'Introduction to atomic physics'

Author's ms and typescript numbered additions | 1942-1963 |

MS827/D/148	Books: 'Multiple-beam interferometry of surface and films'	1948
	Miscellaneous ms & typescript drafts & diagrams	
MS827/D/149	Books: 'Interference microscopy for the biologist'	1968
	Ms of preface & table of contents	
MS827/D/150	Books: 'Modern revolutions in optics'	1969
	Author's ms of preface for Japanese translation. Correspondence with Dr. Ichiro Sunagawa, Tolansky's former pupil, who made the translation.	
MS827/D/151	Books: 'Matter in motion'	n.d.
	Ms draft & outlines for volume A1 'Penguin Panorama of Science'; includes publisher's list of titles & authors projected for the series.	
MS827/D/152	Books: Interferometry	1968
	Ms drafts of introduction & miscellaneous chapters of work on interferometry. (perhaps for Multiple-beam interferometry 1968 D.148)	
MS827/D/153	Books: Interference	n.d.
	Miscellaneous drafts on interference	
MS827/D/154	Books: Reviews	n.d.
	Miscellaneous printed reviews of Tolansky's books	

- MS827/D/155** **Miscellaneous writings: 'Women in physics' from the Science Festival Supplement** n.d.
- MS827/D/156** **Miscellaneous writings: 'The AUT report on university expansion' (article for publication in The Times)** 1949
Includes two annotated copies of the AUT report
- MS827/D/157** **Miscellaneous writings: 'The effect of conscription on the universities'** n.d.
- MS827/D/158** **Miscellaneous writings: 'The growth & development of the Jewish population of Newcastle'** 1926-1929
With ms heading: 'This report was written in the summer of 1926. It was submitted for and was awarded the Gladstone Memorial Prize (1929) at the (then) Armstrong College, Durham University. The present article is effectively the original essay, with a few stylistic improvements.'
- MS827/D/159** **Miscellaneous writings: Scripts and transcripts of broadcasts** 1963-1968
1. 'A new theory for the structure of snowflakes' (15 April 1963)
2. 'Talking about science: Athletic records' (27 May 1963) 3.
'Snowflake symphonies' (22 December 1967)
4. 'Mozart. Account of a very remarkable young musician' (8 May 1967)
5. 'Extracts from 'Ten O'Clock' (on Apollo 7) (22 October 1965)
6. 'Diamond on the Moon' (20 September 1965)
7. 'Is there a radiation risk from luminous wristwatches?' (n.d.)
- MS827/D/160** **Bicentenary Lecture on Thomas Young, to be given at the Royal Institution (May 1973)** 1973
Includes invitation to give lecture and working papers

MS827/D/161	Bicentenary Lecture on Thomas Young, to be given at the Royal Institution (May 1973) Ms notes, draft of lecture, notes on demonstrations & experiments for lecture left unfinished at Tolansky's death	1973
MS827/D/162	Work on music, especially Jewish music in the Bible. 'Chazanuth. The art of Synagogue music'; typescript with ms corrections, perhaps for article or broadcast talk	n.d.
MS827/D/163	Work on music, especially Jewish music in the Bible. 'Some notes on musical instruments in the Old Testament' Drafts, notes, transcriptions from Hebrew, ms & corrected typescript.	1969
MS827/D/164	Work on music, especially Jewish music in the Bible. Typescript for talk or article on Jewish cantillation First page missing	n.d.
MS827/D/165	Work on music, especially Jewish music in the Bible. Ms. 'Notes on musical instruments in the Bible. Thirty types identified.'	n.d.
MS827/D/166	Work on music, especially Jewish music in the Bible. Miscellaneous working papers on early instruments, musical pitch & timbre, early gramophone recordings etc.	n.d.
MS827/D/167	Work on music, especially Jewish music in the Bible. Miscellaneous notes for lectures, on music, folklore, diamonds, sociology, relativity, energy supplies, optical illusions, dream analysis, colour, witchcraft etc.	n.d.
MS827/D/168	Work on music, especially Jewish music in the Bible. Article on cantillation (incomplete, unpublished) and related correspondence.	n.d.
MS827/D/169	Miscellaneous photographs, figures, diagrams, captions etc. for publications.	n.d.

<u>MS827/E</u>	<u>COMMITTEES AND ADVISORY BODIES</u>	<u>1952-1973</u>
MS827/E/1	Committees of London University: ICI Research Grants and Fellowships Applications for grants, statements of research projects, correspondence with colleagues and officials. Includes Tolansky's appointment as member of Turner & Newall Research Fellowships Committee (1950-1953) and his reports on fellows' work. See report on Dr. Rosalind Franklin (16 June 1953)	1952-1959
MS827/E/2	Committees of London University: Sir John Cass College (later City of London Polytechnic) Correspondence regarding Tolansky's service as representative of London University on College Council of Sir John Cass Foundation, on City Of London Polytechnic Formation Committee. (1969), on COL Polytechnic Academic Council (1970). Tolansky resigned from pressure of work (February 1972)	1967-1973
MS827/E/3	Committees of London university. Birkbeck College. Correspondence regarding Tolansky' appointment as representative of London University on Governing Body for Birkbeck College.	1972
MS827/E/4	Committee of London University. Shorter miscellaneous correspondence. Regarding the Appointing Committee for the Readership in Physics at QMC (1955); the Special Advisory Board for Crystallography(1966); Special Advisory Board in Astronomy (1965-1969) and Intercollegiate neutroactivity (declined) (1972).	1955-1972
MS827/E/5	Institute of Physics: Education Group Correspondence regarding Tolansky's appointment to this group Committee, its activities & conferences (Physics in Schools 1950).	1949-1954

- MS827/E/6 Department of Scientific and Industrial Research 1959-1967**
- Papers concerning the Science Research Council, Research Grants Committee, Physics Sub-Committee, including miscellaneous correspondence on applications for research grants and on Tolansky's application to participate in analysis of lunar dust, and his proposed investigation (1966-1967).
Tolansky served on this committee from its inception. (See also NASA files H/38 - 44)
- MS827/E/7 Kingston College of Art: Miscellaneous papers 1955-1968**
- MS827/E/8 Surrey County Council, Education Committee 1958-1959**
Richmond Institute of Further Education.
- MS827/E/9 National Gallery 1952-1972**
- Papers regarding the Honorary Advisory Scientific Committee on effect of light & pigmentation on pictures in Gallery. Includes 2 letters on light profile (1952).
- MS827/E/10 Inter-University Council for Higher Education 1962-1963**
Overseas
- Invitations to serve on appointment boards
- MS827/E/11 Scientific Advisory Committee on Laboratory Practice 1959**
- Correspondence concerning the Committee.
- MS827/E/12 Royal Society of Arts 1950-1965**
- Miscellaneous correspondence; includes Tolansky's corrected proof of his Dr Mann Juvenile Lecture (December 1964 - January 1965) and miscellaneous reviews.
Tolansky served on Council of the Society between 1957-1962 and 1970-1973, as Chairman of the Examinations Committee 1961-1962, as Chairman of the Joint Committee of the Society and London Chamber of Commerce.

MS827/E/13 Royal Society of Arts

1966-1973

Miscellaneous correspondence including Tolansky's corrected proof of his Dr. Mann Juvenile Lectures (December 1964 - January 1965) and miscellaneous reviews.

Tolansky served on Council of the Society between 1957-1962, and 1970-1973, as Chairman of the Examination Committee 1961-1962, as chairman of the Joint Committee of Society and London Chamber of Commerce.

<u>MS827/F</u>	<u>EXTERNAL EXAMINING</u>	<u>1947-1973</u>
MS827/F/1	Bradford Institution of Technology (later University of Bradford) Correspondence regarding the examination for diploma in applied physics, syllabus, draft question paper, scripts, reports etc.; later for applied physics course, Hons & Ordinary	1961-1971
MS827/F/2	University of Durham Correspondence regarding theses	1959
MS827/F/3	University of Leicester Correspondence regarding Tolansky's service as external examiner and assessor	1964-1967
MS827/F/4	University of Nottingham Correspondence regarding theses	1960-1962
MS827/F/5	Miscellaneous reports on theses Andhra University, India (1959-1962) Punjab Engineering College, India (1959) Karnatek University, Dharwar (1959)	1959-1962
MS827/F/6	University of London Miscellaneous correspondence on physics examining and theses (during Tolansky's service as Chairman of the Board of Staff Examiners in Physics).	1959-1962

MS827/F/7 Royal University of Malta

1964-1973

Correspondence, drafts of question papers etc.

MS827/F/8 Gemmological Association of Great Britain

1963-1973

Correspondence on diploma course on gem diamonds at the Birmingham School of Jewellery and Silversmithing

**MS827/F/9-
10 Civil Service Commission**

1947-1969

Correspondence on setting and marking of papers, drafts of papers set by Tolansky and miscellaneous references and recommendations.

<u>MS827/G</u>	<u>CONFERENCES, DEMONSTRATIONS AND EXHIBITIONS</u>	<u>1947-1973</u>
MS827/G/1	Correspondence with colleagues and officials in Germany. Conference of German Physical Society in the British Zone, Gottingen, with reports by Tolansky, and his paper 'Physics in the German Universities' (September 1947) Correspondence on students and equipment and invitation to lecture at the Conference on Crystal Surface, Berlin (1952).	1947-1952
MS827/G/2	Colloquium on the optical properties of solid thin films, Marseilles (19 - 23 April 1949) Includes Tolansky's summary of papers read and report on colloquium	1949
MS827/G/3	First European earth and planetary physics colloquium, Reading, (30 March - 2 April 1971) Correspondence with organisers & collaborators, with Tolansky's drafts of talks schedule.	1970-1972
MS827/G/4	Miscellaneous correspondence with colleagues regarding invitations to conferences and papers read.	1946-1973
MS827/G/5	Miscellaneous exhibition of research projects, photographs, along with correspondence with colleagues & organisers. International Union of Crystallography, Moscow (1966) University of Sussex (1966) International Union of Crystallography, Stonybrook (1969) Quekett Microscopical Club (1970) Institute of Contemporary Arts (1970-1971) Council of Industrial Design (1971) Devices Instruments Ltd. (1971)	1966-1971

MS827/G/6 International Conference on Synthetic Diamonds, Kiev 1971-1972

MS827/G/7 Festival of Britain 1949-1951

Correspondence regarding exhibition in science section of quartz oscillators, diamond crystals, cleavage planes, and photographs from Tolansky's laboratory.

MS827/G/8 Miscellaneous correspondence regarding conference, visits and publications (mainly with French colleagues) 1950-1958

Especially regarding the Colloques Internationaux du C.N.R.S, Marseilles 1945, and 'Reactions superficielles des gaz sur les metaux', Paris, 1956. Includes some scientific correspondence

MS827/H SCIENTIFIC CORRESPONDENCE**1932-1973**

Professor Tolansky conducted an extensive correspondence with scientific colleagues, instrument and equipment manufacturers, learned and professional societies and the like. His special interest in surface topography of diamond and many other structures brought him numerous enquires from the research department of industrial and manufacturing concerns. In addition, his many publications and his contributions to radio and television programmes involved him in correspondence with editors, journalists, producers and members of the general public. Tolansky dealt very conscientiously with this varied correspondence and many of his replies contain reports on work in progress in his laboratory or elsewhere, or matters of general personal or scientific interest. Wherever possible, an indication of information of this kind appears in the itemised list below. Not all correspondents are indexed, since in several cases the incoming letter has been lost and only Tolansky's reply remains. Known correspondents are listed on the relevant files, and in the index.

MS827/H/1 From K.Murakawa**1932**

Regarding hyperfine structures.

MS827/H/2 Correspondence with colleagues, instrument manufactures and officials regarding work in Tolansky's laboratory at Manchester during and after World War II, and later at Royal Holloway College
 Work on diamonds, mica, crystalline and metallic surfaces.

1943-1957

MS827/H/3 Correspondence with Adam Hilger Ltd. later Hilger & Watts

1936-1963

Regarding supply and specification of optical flats, slit projection microscope and other equipment for research at Manchester and RHC, mainly quartz, diamond and other crystals. Also includes technical correspondence on construction and performance of equipment.

MS827/H/4 Royal Society 1936-1947

Correspondence with colleagues and officials regarding work in progress, allocations of research support and equipment, exhibitions, publications (8 envelopes, 4 folders)

MS827/H/5 Royal Society 1948-1952

Includes correspondence concerning Tolansky's election to the Society and appointment to the Board of the National Physical Laboratory.

MS827/H/6 Royal Society 1953-1955

Includes correspondence concerning Tolansky's appointment to Executive Committee of National Physical Laboratory.

MS827/H/7 Royal Society 1953-1956

Correspondence with colleagues and officials regarding work in progress, allocations of research support and equipment, exhibitions, publications (8 envelopes, 4 folders).

MS827/H/8 Royal Society 1956-1957

Correspondence with colleagues and officials regarding work in progress, allocations of research support and equipment, exhibitions and publications (8 envelopes, 4 folders).

MS827/H/9 Royal Society 1958-1965

Correspondence with colleagues and officials regarding work in progress, allocations of research support and equipment, exhibitions and publications (8 envelopes, 4 folders). Includes material regarding Tolansky's appointment to the Physics Sectional Committee.

- MS827/H/10 Royal Society 1966-1967**
- Correspondence with colleagues and officials regarding work in progress, allocations of research support and equipment, exhibitions, publications etc. 8 envelopes, 4 folders. Includes invitation to write biographical memoir of Frits Zernike. Also see D/85
- MS827/H/11 Royal Society 1968-1974**
- Correspondence with colleagues and officials regarding work in progress, allocations of research support and equipment, exhibitions, publications etc. (8 envelopes, 4 folders). Includes invitation to write biographical memoir of Sir Venkata Raman, and correspondence on lunar dust material & reading colloquium. See also G/3, H/38 - 44
- MS827/H/12-14 Miscellaneous correspondence 1945-1951**
- On Vickers projecton microscope, supply and specification of equipment, Tolansky's study of crystal growth by interferometric methods, his suggestions for improvements to equipment for 'light-slit' profiles and other matters in microscopy.
Includes related printed material and typescripts of Tolansky's articles on high- resolution profile microscopy (3 folders)
- MS827/H/15 Correspondence on Mica 1946-1972**
- Correspondence with colleagues, research departments and others concerning optical and electrical properties of mica, natural and synthetic mica, Australia mica etc., with reports by Tolansky on his researches. (See also H/23, H/24.)
- MS827/H/16 Royal Institute 1948-1973**
- Correspondence on equipment, exhibitions and lectures. Includes invitation and preliminary correspondence on Thomas Young Bicentenary Lecture to have been given by Tolansky in May 1973 (Tolansky died March 1973) (See also D/160,161).

MS827/H/17	Interferometric studies of quartz	1948-1952
	Correspondence with colleagues, research laboratories, Panel on Crystallisation, Ministry of Supply and others regarding research on multiple-beam interferometry and quartz oscillators. Includes report on research findings.	
MS827/H/18	Kodak Ltd	1949-1950
	Correspondence on slides and photographs of quartz crystals.	
MS827/H/19	Correspondence with British Coal Utilisation Research Council, National Coal Board and others on Tolansky's investigation of coal by interferometry.	1949-1956
MS827/H/20	Sparcatron Ltd	1955-1966
	Correspondence on smoothing of metal surfaces, analysis of samples by Tolansky and hardness tests on boron carbide.	
MS827/H/21	Correspondence from D.G.Nickols on paper written in collaboration with Tolansky, with diagrams and part of ms draft (See also D/24).	n.d.
MS827/H/22	Correspondence with colleagues and industrial research laboratories on interferometric examination of miscellaneous surface finishes with diamond turning tools.	n.d.
MS827/H/23	Scientific and personal correspondence, mainly with American colleagues.	1950-1951
	Mainly concerning mica.	
MS827/H/24	Scientific and personal correspondence, mainly with American colleagues.	1951
MS827/H/25	Scientific and personal correspondence, mainly with American colleagues.	1952-1953

MS827/H/26 Scientific and personal correspondence, mainly with American colleagues. 1954-1958

MS827/H/27 Scientific and personal correspondence, mainly with American colleagues. 1959-1960

MS827/H/28 Scientific and personal correspondence, mainly with American colleagues. 1962-1964

MS827/H/29-37 Work on Diamonds 1952-1973

Scientific and other correspondence with mining corporations, suppliers and dealers in diamond, gemmologists, academics, colleagues, museums and publishers concerning Tolansky's work on natural and synthetic diamond, marine diamond, meteoric diamond, micodiamond, Type 1 and Type 2 diamond, history of natural and synthetic diamond; arrangements for annual Diamond Conferences (1952-1973); periodic reports on diamond in progress at RHC; report on papers on diamond submitted for publication; miscellaneous publications on diamond, especially with contributors to special number of *Laboratory Practice on Diamonds in Industry* (1967) (organised and supervised by Tolansky).

Includes mss of the following papers or articles by Tolansky:

'Early Historical Uses of Diamond Tools' Oxford Conference (1966)

'Studies on de Beers Synthetic Diamonds': notes at Cambridge Conference (1969-1971)

Preface to 'Diamonds' by Eric Bruton. 9 folders.

MS827/H/38 NASA Lunar Samples Research Programme. 1970-1972

Correspondence includes, among general administrative matters, considerable scientific information on Tolansky's research techniques and results.

MS827/H/39	NASA Lunar Sample Research Programme.	n.d.
	Notes and reports on Moon Dust samples from Apollo 11 & 12, with photographs of interferometric examinations.	
MS827/H/40	NASA Lunar Sample Research Programme	n.d.
	Miscellaneous printed matter circulated to investigators; particulars of planning teams, allocation of work & materials, arrangements for despatch of lunar dust, press releases and official photographs.	
MS827/H/41-44	NASA Lunar Sample Research Programme	1967-1973
	Correspondence with NASA officials, colleagues and collaborators, publishers, newspapers and members of the general public etc. The correspondence was continued by V.I.Little after Tolansky's death. H/41 (1967-1968) H/42 (1969) H/43 (1970) H/44 (1971 -1973)	
MS827/H/45	Letters from F.Paschen	1932-1937
	Testimonial for Tolansky (1932) Two autograph letters on state on German science (1932-1937)	
MS827/H/46	Correspondence with Charles Singer concerning Jewish scientists	1955-1956
MS827/H/47	Correspondence with George L.Kehl regarding microphotography	1957
MS827/H/48	Correspondence with S.A.Ramsden concerning the Zeeman and Stark effect in published data on Zeta.	1958-1960
MS827/H/50	Correspondence with B.J.Mason concerning crystal structures.	1958
MS827/H/51	Correspondence with A.R.Patel and M.S.Joshi regarding diamond structure	1959-1960

MS827/H/52	Correspondence with K.Burgherr concerning silicon carbide crystals	1959
MS827/H/53	Correspondence with D.G.Murchison regarding directional hardness techniques	1959
MS827/H/54	Correspondence with M.J.Merrick (Furniture Development Council) concerning surface roughness measurements on timber by light-profile microscope.	1957-1959
MS827/H/55	Correspondence with J.R.Hoch; including 'recipe; for activated charcoal 'given to me by W.E.Curtis.....and I believe goes back to Dewar'	1959
MS827/H/56	Correspondence with Anthony Michaelis, Dame Kathleen Lonsdale and others on an early book on crystallography	1959
MS827/H/57	Correspondence with H.E.C.Parsons (Tate & Lyle) concerning sugar crystals	1959
MS827/H/58	Correspondence with E.Hedges and W.Hoare (Tin Research Institute) regarding the metallurgical applications of crystallography	1959
MS827/H/59	Correspondence with R.S.Bradley regarding on diamond research	1959
MS827/H/60	Correspondence with O.S.Heavens concerning line spectra and gratings	1959-1960
MS827/H/61	Correspondence with W.J.R.Merren (Pilkington Bros.) concerning interferographs of float glass	1959
MS827/H/62	Correspondence with E.K.Robinson (St. Peter's York) regarding oscillators	1959
MS827/H/63	Correspondence with O.Darbyshire concerning high resolution fringes	1959
MS827/H/64	Correspondence with E.Hedges, J.G.Wood, S.Keith Runcorn, D.W.Collinson, W.Sucksmith and others concerning cleavage and magnetic moments in diamond	1959

MS827/H/65	Correspondence with miscellaneous colleagues on special science supplement for the Times Educational Supplement	1959-1960
MS827/H/66	Correspondence with W.J.R.Merren (Pilkington Bros.) surface measurement of float glass.	1963
MS827/H/67	Correspondence with Dr. F.Guido Canepa, includes some scientific correspondence on interferometric examination of biological structures Includes some scientific correspondence on interferometric examination of biological structures	1963-1970
MS827/H/68	Correspondence with J.F.Danielli concerning the significance and use of interferometry in biological studies	1964
MS827/H/69	Correspondence with John N.Howard concerning an article submitted by Tolansky for publication in applied optics. Includes note on Tolansky's conversation with Lord Rayleigh on high resolution instruments (4 January 1965)	1962-1965
MS827/H/70	Correspondence with Sir Gordon Sutherland regarding optical illusion photography	1965
MS827/H/71	Correspondence from G.Kretschmer concerning the symmetry of snow crystals	1966
MS827/H/72	Correspondence on El Greco's astigmatism	1966
MS827/H/73	Correspondence on early diamond rock-drills.	1965-1966
MS827/H/74	Correspondence with Science Museum, on Barton's buttons and moon marbles	1966-1970
MS827/H/75	Correspondence from W.Bardsley regarding commercial crystals in electronics industry	1967
MS827/H/76	Correspondence on fluorescence in diamonds	1967

MS827/H/77	Correspondence from Gilbert Hatley concerning the early phase-contrast microscope	1968
MS827/H/78	Correspondence with H.H.Hopkins, with report on current activities in optics at Royal Holloway	1968
MS827/H/79	Correspondence with C.I.Phillips regarding an early reflecting microscope	1968
MS827/H/80	Correspondence on the microscopy work of J.P.Thieri.	1968
MS827/H/81	Correspondence on optical illusions with the children of Grantchester School, Cambridgeshire	1969
MS827/H/82	Correspondence with Otto Frisch concerning Mozart and lunar glassy spherules	1970
MS827/H/83	Correspondence with Harold Burge concerning blood-pressure gauges	1970-1972
MS827/H/84	Correspondence on optical illusions in the ancient Greek temples	1970
MS827/H/85	Correspondence on work on Goethe's theory of colour	1970
MS827/H/86	Correspondence with Patrick Moore regarding lunar samples	1971
MS827/H/87	Correspondence with C.Arnold Beevers regarding snow crystal structures	1971
MS827/H/88	Correspondence with B.Ariel regarding angular and linear velocity, and concerning Russian translation of Tolansky's books	1971
MS827/H/89	Correspondence on earth's magnetic fields	1971

MS827/H/90	Correspondence on 'musical stone'	1971
MS827/H/91	Correspondence on collapsars	1971
MS827/H/92	Correspondence on fringes in Michelson-Morley experiment.	1971
MS827/H/93	Correspondence with GEC Semiconductors regarding silicon carbide crystals for interferometric studies	1971
MS827/H/94	Correspondence with D.A.Spencer concerning optical filtering	1971-1972
MS827/H/95	Correspondence on diamond faces	1972
MS827/H/96	Correspondence with E.W.Nester regarding the work of Van Cittert and the Leeuwenhoek microscope	1972
MS827/H/97	Correspondence with Mrs. C.E.Arregger, on 'Concise Dictionary of Optics' and value of multiple-beam interferometry	1972
MS827/H/98	Correspondence on infrared sensitive material	1972
MS827/H/99	Correspondence on sulphur dioxide testing	1972
MS827/H/100	Correspondence with E.Stuart Kirby, on Russian translation of Tolansky's 'Modern revolution in optics', and Kirby's proposed book on diamonds in Russia	1972-1973
MS827/H/101	Correspondence with M.M.Brewer (Unilever Research) on interferometric examination of polished and abraded teeth	1972-1973
MS827/H/102	Miscellaneous scientific correspondence (not indexed).	1952-1972

MS827/H/103 Correspondence with members of the Royal Family 1955-1970

From Princess Alice Countess of Athlone, on Tolansky's research, and condolence on his death (1955-1973).

From Sir Edward Ford, accepting Tolansky's presentation of his book on diamonds to H.M. The Queen (1961).

From H.R.H. Prince Philip, on moon marbles (1970).

MS827/J PUBLICATIONS CORRESPONDENCE 1942-1973

Correspondence with publishing houses, arranged alphabetically, regarding Tolansky's books, publishing schedules, proofs, diagrams and charts, arrangements for foreign translations, reprints and some also include his reports on MSS submitted for reading and advice. Names of correspondents are not included in the index unless material of special scientific or personal interest is involved.

MS827/J/1 Academic Press 1969-1970

Regarding multiple-beam interference microscopy of metals.

MS827/J/2 Edward Arnold Ltd. 1967-1969

Regarding Microstructure of surfaces (1968)

MS827/J/3 Bild der Wissenschaft 1965-1968

Regarding Tolansky's articles 'Diamonds in Industry' (Diamanten für die Technik, Bild Wissenschaft, 3, 181-189), and 'Diamonds on the Moon'

MS827/J/4 Dover Publications and Clarendon Press 1965-1970

Regarding reprinting of Multiple-beam interferometry of surfaces and films.

MS827/J/5 Encyclopedia Britannica International Ltd. 1967-1973

Regarding Tolansky's articles for the Encyclopedia concerning holography, interferometers and kaleidoscopes. Includes ms drafts of articles.

MS827/J/6-13 Longman, Green & Co. Ltd (now Longman Group) 1942-1972

General correspondence on Tolansky's books; includes letters of congratulations and scientific comment from colleagues, and Tolansky's readers reports on MSS. 8 envelopes in 4 folders.

J/6 (1942-1947)

J/7 (1948-1950)

J/8 (1951-1954)

J/9 (1955)

J/10 (1956-1960)

J/11 (1961-1966)

J/12 (1967-1968)

J/13 (1970-1972)

MS827/J/14 Methuen & Co. Ltd. 1947-1962

General correspondence on Tolansky's books; includes Tolansky's reader's reports on mss, among them an unfavourable report on Frederick Soddy's proposed book 'Real alchemy and the release of atomic energy'.

Also contains correspondence regarding:

High resolution spectroscopy (1947)

Hyperfine structures in line spectra and nuclear spin (n.d.)

History and use of diamond (1962)

The strategic diamond (not accepted)

MS827/J/15 John Murray (Publishers) Ltd. 1966-1968

MS827/J/16 Oliver & Boyd Ltd. 1967-1971

Regarding 'The strategic diamond' (1968)

MS827/J/17 Penguin Books Ltd. 1960-1973

Regarding:

Penguin Science survey A (1963) (article on optical illusions)

Penguin Science Survey A (1965) (article on diamonds)

Modern revolution in optics (1969)

- MS827/J/18-19 Pergamon Press Ltd. and Veneda Publishing Co. 1956-1971**
- General correspondence on Tolansky's books' includes Tolansky's reader's reports on MSS submitted. Regards Optical illusions (1964) and Curiosities of light waves and light rays (1964)
- MS827/J/20 Carl Zeiss 1964-1970**
- Correspondence regarding permission to reproduce Zeiss interference micrographs for Tolansky's book, Interference microscopy for the biologist (1968). articles for Jena Review, Barton's buttons - a curiosity in the history of optics (1968) and Glass spherules in Moon dust (1971). (Also see D/64)
- MS827/J/21-24 General correspondence with publishers and editors, journalists, colleagues and members of the general public. (not indexed) 1954-1973**
- J/21 (1954-1963)
J/22 (1964-1967)
J/23 (1968-May 1971)
J/24 (June 1971-January 1973)
- MS827/J/25 Miscellaneous requests from publishers and editors for books or articles to be written by Tolansky 1952-1971**
- MS827/J/26 Miscellaneous invitations to Tolansky to review publications 1959-1971**
- MS827/J/27 Miscellaneous correspondence on books and articles referred to Tolansky 1959-1972**
- MS827/J/28 Miscellaneous correspondence with NATURE on articles submitted for advice 1968-1970**
- MS827/J/29 Miscellaneous correspondence on articles submitted to Industrial Diamond Review. 1968-1971**

MS827/K LECTURES, BROADCASTS AND TELEVISION APPEARANCES 1947-1973

**MS827/K/1- BBC and ATV broadcasts and television appearances. 1950-1973
6**

Miscellaneous correspondence with producers and presenters of programmes, members of the general public etc. Includes various scripts, outlines for talks and programmes. Much of the correspondence has scientific interest of a popular kind. The index is selective.

Correspondents are listed on file and general index. (6 envelopes in 3 folders)

K/1 (1950-1959)

K/2 (1960-1964)

K/3 (1965)

K/4 (1966)

K/5 (1967-1969)

K/6 (1971-1972)

**MS827/K/7- Lectures, addresses and talks 1947-1973
15**

Tolansky lectured and demonstrated extensively on his researches to many types of audiences: learned societies, student scientific and other clubs, youth groups, local oratories etc. His skills and adaptability as a lecturer are abundantly attested in the correspondence. (9 folders)

K/7 (1947-1951)

K/8 (1952-1955)

K/9 (1956-1960)

K/10 (1962-1964)

K/11 (1965-1966)

K/12 (1967-1969)

K/13 (1970)

K/14 (1971)

K/15 (1972-1973)