

Curriculum Vitae

Personal Details

Surname Glazer
Christian Names Anthony Michael
Address Talmont House, Barford Road, Bloxham, OX15 4EZ, UK
Date of birth May 1 1943
E-mail address Glazer@physics.ox.ac.uk
Daytime Telephone/fax 01865 272290
Evening Telephone 01295 722913
Languages In decreasing order of ability:
Italian, French, Polish, German, Russian
Hobbies Flying
(Private Pilot's License with Instrument Rating and Night Rating).

Education

School Christ's College Finchley
Dates 1954-1964
Lower Qualifications General Certificate of Education
(Ordinary Level, London)

- Physics 1959
- Chemistry 1959
- Pure Mathematics 1959

- English Language 1959
- German 1959
- French 1959
- Biology 1959

Higher Qualifications (1) General Certificate of Education(Advanced Level, London)

- Physics 1962
- Chemistry 1962
- Pure Mathematics 1962

(2) Scottish Universities Entrance Board

- Physics 1962
- Chemistry 1962
- Pure Mathematics 1962

First Degree Queen's College (University of St.Andrews), Dundee, Scotland

Dates 1962 – 1965

- Physics, Chemistry, Mathematics 1962
- Chemistry 1963
- Chemistry 1964

Degree obtained B.Sc. (Hons) 2(1)

Second Degree University College London

Dates 1965 – 1968

Supervisor Professor Dame Kathleen Lonsdale

Thesis Structures of Mixed Crystals of Organic Compounds

Degree obtained Ph. D. Crystallography

Other Degrees M.A. (Cambridge) 1974

M.A. (Oxford) 1976

Other Titles M.Inst.P. 1970-2013

F.C.S. (Fellow of the Chemical Society) 1970

Emeritus Professor of Physics (Oxford) 2010

Emeritus Fellow of Jesus College Oxford 2010

Employment

Industrial	(1) Elliott Automation, Borehamwood	1962
	Quality control in the Airborne Computing Division	
	(2) Aziende Chimiche Riunite, Rome, Italy	1964
	Organic Synthesis	
	(3) Kodak, Harrow	1965
	New materials for colour processing	

Postdoctoral	(1) Chemistry Dept., Harvard University, USA	
	Research Fellow	1968 -1969
	Study of solid-state topotactic reactions: with Professor J.Z.Gougoutas	
	(2) Cavendish Laboratory, Cambridge	
	SRC Research Fellow	1969 - 1970
	SRC Research Assistant	1970 - 1972
	Study of high-temperature phase transitions in ferroelectric and antiferroelectric pseudosymmetric crystals: with Dr. H.D.Megaw	
	(3) Cavendish Laboratory, Cambridge	
	Senior Assistant In Research	1973-1976
	Head of Crystallography Laboratory & Director of Wolfson Unit For Study of Dielectric Materials	1973-1976

In 1976 I transferred my entire research group/equipment and group records from Cambridge to Oxford.

Present Employment	Emeritus Professor of Physics, Clarendon laboratory, Oxford	2010-
	Emeritus fellow of Jesus College Oxford	2010-
	Visiting Professor at Warwick University	2010-
	Lecturer in Physics, Clarendon Laboratory, University of Oxford	1976 -2010
	Official Fellow and Tutor, Jesus College, Oxford	1976 -2010
	Appointed to the Title of Professor	1996 -

University and College

University Lectures and Classes Given

Undergraduate Lectures

(Cambridge)	Group Theory (3rd year Crystalline State)
(Oxford)	Gases at Low Pressures(2nd year)
	Thermodynamics (2nd year)
	Revision lectures on Thermodynamics (3rd year)
	Introduction to the solid state (3rd year)
	Condensed Matter Option (4th year)

Undergraduate Demonstrating

(Oxford)	General physics (1st year)
	Computing (1st year)
	General physics (2nd year)
(Cambridge)	General physics (2nd year)
	Crystalline state (1st year)

Graduate Lectures

(Cambridge)	Group theory
	Introduction to the Renormalization Group, with N. Srinivasan and M. Green.
Oxford	Group theory of the solid state

Graduate Supervision

The following is a list of all Ph.D. students that I have supervised at Cambridge and at Oxford.

- Whatmore, R.W.** Structural phase transitions in modified lead zirconate.
University of Cambridge. (1976)
- Jan, N.** Approximate methods in the study of critical phenomena.
University of Cambridge. (1978)
- Mabud, S.A.** Phase transitions in ferroelectric perovskites.
University of Cambridge. (1978)
- Guimaraes, D.M.C.** Ferroelastic properties and phase transitions in lead orthophosphate.
University of Cambridge. (1979)
- David, W.I.F.** Structural phase transitions in ferroic ABO₄ crystals.
University of Oxford. (1981)
- Allen, S.** Phase transitions in proustite.
University of Oxford. (1983)
- Singh, S.** Phase transitions in dicalcium lead propionate.
University of Oxford (1983)
- Brown, R.H.** The growth of ferroelectric LiNbO₃/LiTaO₃
for surface-acoustic wave devices.
University of Oxford. (1983)
- Mariathasan, J.W.E.** Ferroelastic phase transitions in scheelite crystals.
University of Oxford. (1983)
- Groves, P.** Order/disorder phase transitions in complex perovskite compounds.
University of Oxford. (1984)
- Thomas, P.A.** Optical activity in crystals.
University of Oxford. (1987)
- El-Mallah, H.** The structures and physical properties of certain perovskite crystals.
University of Oxford. (1988)
- Nealon, T.A.** The properties of ferroelectric relaxors.
University of Oxford. (1989)
- Moxon, J.R.L.** A high accuracy universal polarimeter for crystal optics research.
University of Oxford. (1990)
- Renshaw, A.R.** An investigation of the optical properties of crystals by polarimetry.
University of Oxford. (1990)
- Gomes, E.** Relationship between optical activity and crystal structures.
University of Oxford. (1990)
- Tebbutt, I.J.** Optical activity and crystal structure.

- University of Oxford. (1991)*
- Williams, C.** Structure/property relationships in a polymorphic nonlinear optical crystal.
University of Oxford. (1992)
- Roberts, A.L.U.** Structural investigations of high temperature superconductivity in cuprates.
University of Oxford. (1993)
- Mayo, S.C.** The structure and properties of nonlinear optical crystals.
University of Oxford. (1993)
- Lingard, R.J.** Optical activity in the presence of linear birefringence.
University of Oxford. (1994)
- Corker, D.L.** Structure-property relationships in new non-linear optical borates.
University of Oxford. (1995)
- Arzt, S.** Measurements of optical activity and absolute optical chirality in birefringent crystals.
University of Oxford. (1995)
- Lewis, J.** A new optical imaging system for microscopy.
University of Oxford. (1998)
- Reeve, W.** New crystals in the double phosphate series.
University of Oxford. (1999)
- Geday, M.** Birefringence imaging microscopy.
University of Oxford. (2001)
- Zekria, D.** Structures and phase transition in PMN-PT
University of Oxford (2004)
- Pajdzik, L.** Three-dimensional birefringence imaging
University of Oxford (2007)
- Zhang, N.** Lead free piezoelectrics based on sodium potassium niobate
University of Oxford (2009)
- Duncan-Jones, G.** New algorithms in powder diffraction
University of Oxford (2011)

University Examining

Finals Examiner	1981-1983
Finals Examiner	1992
Finals Examiner	2001-2003

University Administration

Graduate Admissions for whole of Physics	1985-1991
Director of Graduates for Condensed Matter Physics	1991-1994, 2003-2009
Director of Undergraduate Project Scheme	1981-1985

Undergraduate Teaching for College

Tutorials in Physics (mainly thermodynamics, statistical mechanics and solid state physics)
1976-

Occasional tutorials in Physics for Worcester College

College Administration

Member of Governing Body	1976-2010
College committees (Academic, Domestic)	1976 -2010
Entrance examinations in Physics	1976 -
Tutor for Graduates	1989 – 1995
Tutor for Graduates	2002 – 2003
Acting Vice-Principal	Trinity Term 2008

Advanced Study and Research

Summary of Research

Interests

Crystallography and phase transitions of materials of industrial interest, powder diffraction, disorder, x-ray diffraction techniques, optical properties of crystals, symmetry, instrumentation.

Brief summary of past work

I have been interested in crystals since the age of seven, when I found my first natural mineral. This early interest remained with me and eventually took me into the field of crystallography. The broad philosophy of the major part of my research activity has been the study of the relationship between physical properties of crystals and their crystal structures. In other words, I have been interested in what precisely in the crystal structure leads to a particular property. This subject is important both academically and technologically, since many of the properties are of use in industry. In the main, these properties are what can be termed ferroic properties: particularly, ferroelectric and ferroelastic. The materials I have studied have their importance for their electrical and optical behaviour. As a result, I have been able to have a fruitful collaboration with industry. Much of my work has been in the field of phase transitions, because it is at the phase transition that the properties change most dramatically, as does the crystal structure. By studying both together one can then obtain an idea of the relationship between the two. My group is one of the very few crystallography groups in the world that combines both crystal structure studies with physical property measurements at the same time.

I have also been interested in new techniques. Thus in the early days of synchrotron radiation work, I was one of perhaps half a dozen scientists establishing the key fundamental experiments by which synchrotron radiation could be used in crystallography. Similarly, I have built several novel types of instrument, both in x-ray diffraction (e.g. continuous-recording camera for the study of phase transitions, low and high-temperature apparatus) and in physical property measurements (e.g. automatic birefringence measurements, universal polarimeter, and very recently a new form of imaging system for a microscope, which we have patented). Some of these inventions have commercial significance, and as mentioned elsewhere, led to the establishment of Oxford Cryosystems.

Major External Grants

1972-1977	Wolfson Foundation	Wolfson Unit for the Study of Phase Transitions in Dielectric Materials (transferred with me from Cambridge in 1976)
1979	SRC	X-ray studies of phase transitions in ferroic materials at different temperatures
1979-1982	SRC	Simultaneous high-pressure/high-temperature studies of ferroic crystals
1980-1981	SRC	An x-ray diffractometer for high-pressure/temperature studies of phase transitions in ferroic crystals
1981-1985	SERC	Powder diffraction with synchrotron radiation
1983-1986	SERC	Relationship between crystal structure and optical properties
1985	SERC	Automatic powder diffractometer for materials research
1985-1988	SERC	Crystal structure analysis from powder diffraction
1985-1988	Joint Research Scheme ICI	Crystal structure analysis from powder diffraction
1985-1988	SERC	Powder diffraction using synchrotron radiation and the spallation neutron source

1986	JOERS	Materials for low cost optical isolators
1987	SERC	Visiting Fellowship for J. Kobayashi
1987-1988	SERC	Powder diffraction from zeolites
1987-1990	SERC	Optical rotation in inorganic crystals
1988	ALCAN	Growth of potassium titanyl phosphate crystals
1988-1991	MOD	Structures of high-temperature superconductors
1989-1990	SERC	X-ray scattering studies of structures, structural phase transitions, surfaces and low dimensional structures (shared with R A Cowley)
1989-1991	SERC	Study of new electrooptic crystals for linear and non-linear applications
1990-1992	BT Research	Investigation of KTP derivatives
1990-1993	ORC Collaborative Research program	New optoelectronic materials
1994-1996	SERC	Role of crystal structure in periodic domain inversion (shared with Dr. P. A. Thomas, Warwick)
1995-1997	EPSRC	Structures and physical properties of perovskite PZT-based materials (shared with Prof. R. W. Whatmore, Cranfield)
1997-1998	EPSRC	Novel experiments on optical crystals
1998-2001	EPSRC	A-site substituted perovskites (shared with Dr. P.A. Thomas, Warwick)
2002-2005	EPSRC	Structures and properties of relaxor-related perovskites
2003-2006	EPSRC	Three-dimensional birefringence imaging
2006-2007	EPSRC	Three-dimensional birefringence imaging (cont.)
2008-2011	EPSRC	Crystallography and properties of lithium niobate-tantalate solid solutions: towards novel optically isotropic, electrically polar materials
2008-2012	EPSRC-NSF	Materials World Network: Nanoscale Structure-Property Relationships in Lead Free Morphotropic Phase Boundary Piezoelectrics

Important scientific research publications from the Glazer Group

(Numbers refer to those marked on attached publication list at end)

(1) The first time the so-called M3 soft mode had been identified at a phase transition and the final solution of the high-temperature structures of sodium niobate.

(2) The derivation of all the ways in which tilts of oxygen octahedra can occur in perovskites. This led to the discovery of hitherto unknown perovskite structures. The notation developed in

this paper is now accepted internationally as a means of classifying these important structures. About 100 requests for reprints were received.

(3) The first dynamic experiment on x-ray topography using synchrotron radiation.

(4) The first use of x-ray energy-dispersive techniques with synchrotron radiation. This paper was the subject of an article in *The Times* and was invited for presentation at a *Conversazione* of the Royal Society.

(5) The discovery of a tricritical point in the industrially important material lead zirconate-titanate.

(6) The first time that it was demonstrated that solid-state detectors could give meaningful intensity data with powder diffraction, in this case using synchrotron radiation.

(7) The first time that the use of a scanning crystal was used to produce very high-resolution energy-dispersive diffraction patterns

(8) The first time that structures could be refined from energy-dispersive powder diffraction patterns, in this case using synchrotron radiation.

(9) The only published case of a phase transition studied by birefringence measurements as a function of temperature and hydrostatic pressure.

(10) The development of a very sensitive automatic instrument for studying optical changes in crystals at phase transitions.

(11) The discovery of a crystal which consisted of microregions of opposite chiralities.

(12) The first demonstration of structure refinement from x-ray powder diffraction patterns taken with a Debye-Scherrer camera.

(13) A demonstration that Laue photographs taken with synchrotron radiation could be used to refine crystal structures.

(14) I was the subject of a *New Scientist* interview.

(15) The development of a very stable device for cooling small single crystals in an x-ray beam. This has led to the low-temperature device currently marketed by Oxford Cryosystems.

(16) The derivation of a computer program that enables optical activity to be calculated from the crystal structure.

(17) In this paper we finally solved a long-standing problem in the physics of crystal optics, namely the structural origin of optical activity (the effect was discovered in 1811 and its structural origin had remained unclear until this paper). We received 174 requests for reprints of this paper. My work on optical activity was the subject of a *New Scientist* interview (14) published in October 1984 before this work had been completed.

(18) One of the first papers on *ab initio* structure determination from powders, in this case using synchrotron radiation. For this work, Dr McCusker was the recipient of the Barrer Award of the British Zeolite Association as well as the Physical Crystallography Award of the Institute of Physics.

(19) The first complete analysis of the so-called HAUP technique for measuring optical rotation in the presence of linear birefringence.

(20) The prediction of the high-temperature phase symmetry of the important non-linear optic crystal KTP, later confirmed by others.

(21) The first demonstration that circular and linear dichroism can be extracted from the HAUP technique.

(22) & (23) The first explanation of twinning in KTP and the first determination of absolute chirality in a non-uniaxial crystal.

(24) The first complete structure determination of lead zirconate. This is also the first case of a perovskite crystal with a disordered oxygen framework. Lead zirconate is a member of one of the most important solid-solution series, PZT, used in piezoelectric and pyroelectric transducers.

- (25) A new method of measuring optical rotation in the presence of birefringence using a tilting stage. This method is much less expensive than the HAUP technique and some 100 times faster.
- (26) A new imaging technique for separating birefringence from orientation. This effectively turns the earlier rotating-analyser method into an imaging microscope.
- (27) A neutron study of the important PZT material with the first model published of local short-range order at the Pb site. This important finding has subsequently been used to explain structures at the morphotropic phase boundary.
- (28) The imaging system is used to perform the first separation of magnitude and orientation in a conoscopic image, thus showing Airy's spiral for an optically active crystal.
- (29) (30) A modern use of the traditional universal microscope stage which enables us to obtain precise three-dimensional birefringence information.
- (31) Won prize for best poster on Mineralogical Crystallography by the European Mineralogical Union.
- (32) The final solution (?) to a long-standing problem about the structure of PZT. Editor's recommendation.
- (33) The observation for the first time of curious temperature dependent stripes in lithium tantalate and mixed lithium tantalate-niobate crystals.
- (34) The first neutron study of PZT single crystals.
- (35) The discovery of a new phase boundary in the important piezoelectric material PZT and an explanation of its high piezoactivity. This paper has been given the Spriggs Award 2015 by the American Ceramic Society.

Other Relevant Information

Awards

National Medal of Polish Education for services to the OCHSPS	Warsaw	1992
E-MRS Professor Jan Czochralski Award and Medal plus Plenary Lecture	Warsaw	2012
Spriggs Award of the American Ceramic Society	Columbus, Ohio	2015

Public Engagement

Cheltenham Science Festival		2015
“The Two Braggs” University College London		2015
“Kathleen Lonsdale & Helen Megaw” International Women’s Day at Warwick University		2015
The Big Bang Fair, Birmingham		2015
“The Crystal World” lecture to IOP Kent		2014
Public lecture “Crystal World” to Oxford Alumni		2014
Film on the Braggs’ Legacy for Diamond Light Source at http://www.diamond.ac.uk/Home/News/LatestNews/02-09-14.html		2014
Cheltenham Science Festival		2014
The Big Bang Fair, Birmingham		2014
“The Crystal World” lecture to Magdalen School Oxford		2014
Catalogue of Two Braggs Exhibition http://www.tandfonline.com/doi/suppl/10.1080/0889311X.2013.861634/suppl_file/gcry_a_861634_sm5538.pdf also http://www.amg122.com/twobraggs		2014
Podcast for Royal Society of Chemistry (http://www.rsc.org/chemistryworld/2014/01/podcast-january-2014)		2014
Filmed interview for Wellcome Trust http://www.ndm.ox.ac.uk/part-2-the-history-of-structural-biology		2014
Press Release for IUCr International Year http://www.iucr2014.org/about/media-kit		12 Dec 2013
Inside Science BBC Radio 4 (http://www.bbc.co.uk/programmes/b03kv273)		12 Dec 2013
Assisted with “Crystals” Exhibition at Oxford Museum of History of Science		Dec 2013 – March 2014
“The Two Braggs” public lecture at Oxford Museum of History of Science		2013
“Oxford Cryosystems” with Kat Orman, BBC Radio Oxford		2013
Organized “The Two Braggs Exhibition” at Warwick University		2013
“Bragg on the Braggs” with Melvyn Bragg BBC Radio 4 http://www.bbc.co.uk/programmes/b0383vb0		13 Aug 2013
“The Two Braggs”, Agilent Ltd Users Group		2013
Big Bang Fair, London		2013
“Crystal World”, Teacher’s conference for IOP Oxford		2012
Crystallography: “In Our Time”, BBC Radio 4 (http://www.bbc.co.uk/programmes/b01p0s9s)		29 Nov 2012
“Crystal World” open lecture for Oxford Science week		2012
Schools Lecture, Oxford: “The Crystal World”		2001
Essay on “Public and Media Attitudes to Science”, Today Program, BBC		1995

Some Major Invited Lectures & Occasions

UK	Bragg Lecture at BCA Lancaster	
	“The Wondrous World of Perovskites”	2017
	Bragg Lecture & Friday Evening Discourse at Royal Institution	
	“The Wondrous World of Perovskites”	2017
	RSC History Group at Royal Institution	
	“Influence of the Braggs on X-ray Crystallography”	2015
	St. Annes College oxford, neutron School	
	“Legacy of the Braggs”	2015
	Lipson Centennial Liverpool	
	“Henry Lipson: His Role in Crystallography”	2015
	BCA York	
	“Into Deep Space”	2015
	Rank Prize Fund Grasmere:	
	“Seeing is Believing: Birefringence Microscopy”	2009
	Wellcome Trust: Invited to open exhibition	
	“From Atoms to Patterns”	2008
	BCA Lancaster: Lonsdale Lecture	
	“Crystals Under the Microscope”	2006
	BCA Industrial Group	
	"Crystallographic Patents & Seeding"	2005
	BCA2005 Loughborough	
	"Tutorial Session on Phase Transitions"	2005
	Scottish Microscopical Society	
	"Birefringence Imaging Microscopy"	2004
	BCA2004 Manchester:	
	"Advanced Aspects of Symmetry"	2004
	EMF2003, Cambridge:	
	“The Morphotropic Phase Boundary: My Part in its Downfall”	2003
	Ferroelectrics UK 2003, Belfast:	
	“The Morphotropic Phase Boundary: My Part in its Downfall”	2003
Chemical Crystallography Group (BCA), Bristol:		
"Incommensurate Diffraction as an End Member of Disorder"	1997	
CMMP971, Exeter:		
"Optical Properties and Crystal Structures”	1997	
BCA Industrial Group:		
"The Future of X-ray Diffraction "	1997	
Bragg Lecture:		
"Crystals Make Light Work" at BCA2 Newcastle	1994	
RSC3, Durham:		
"X-ray Diffraction. Can you Swear by your Results?"	1993	
IOP4, Lancaster:		
"X-ray Diffraction. Can you Swear by your Results?"	1993	

¹ Condensed Matter Physics Meeting
² British Crystallography Association
³ Royal Society of Chemistry
⁴ Institute of Physics

IOP, Manchester: "X-ray Diffraction. Can you Swear by your Results?"	1993
BCA, Liverpool: "X-ray Diffraction. Can you Swear by your Results?"	1992
IOP, Warwick: "X-ray Diffraction. Can you Swear by your Results?"	1992
BCA, Exeter: "Schools Lecture on Symmetry"	1990
Physical Properties and Thermodynamic Behaviour in Minerals Conference, Cambridge: "Linear and Circular Birefringence and Crystal Structure"	1988
BCA, Nottingham: "The Powder Diffraction Facility at the Daresbury Laboratory"	1984
4th EPS5 General Conference, York: "X-ray Crystallography using White Radiation from Synchrotrons"	1978

International

AIC School Rimini, Italy "Polymorphism, stability and phase transitions in crystals" Three lectures	2016
E-MRS Fall Meeting Warsaw "Diffuse scattering in lead zirconate and PZT"	2015
9th Asian Meeting on Ferroelectrics, Shanghai, China "The Missing Boundary in PZT Found at Last"	2014
E-MRS Fall Meeting Warsaw "The Missing Boundary in PZT Found at Last"	2014
IMF13 International Meeting on Ferroelectricity "Who was Jan Czocharlski?" Krakow, Poland	2013
Symposium: Grants for Excellent Graduate Schools. "The Two Braggs" Waseda University, Tokyo, Japan	2013
Swiss Physical Society. "The Two Braggs" Zurich	2012
6EWPM Workshop on Piezoelectric Materials "The crystal structures of PZT" Montpellier	2012
EMF2011 European Meeting on Ferroelectricity. Bordeaux, France: "So where are we with the crystal structures of PZT?"	2011
IWLLFM-2010 Meeting on Lead-free Piezoelectrics held in my honour in Shanghai, China	2010
E-MRS Fall Meeting Warsaw, Poland: Symposium held in my honour.	2010

⁵ European Physical Society

Aspen Center for Physics: Advances in the Fundamental Physics of Ferroelectrics and Related Materials.	2010
Pittsburgh MS & T Conference: "The structures of rhombohedral PZT"	2009
Virginia Tech: "The structures of rhombohedral PZT. The final solution?"	2009
Chairman of Plenary session at IUCr. Osaka	2008
Vilnius: "The structural controversy in PZT"	2008
Darmstadt: Workshop on the Morphotropic Phase Boundary	2008
ECM Leeuven: Birefringence Imaging and Proteins	2006
U. di Milano: Six lecture course "Crystal Optics"	2006
ECM Durban: "The scientific life of Helen D. Megaw"	2003
University of Katowice, Poland: "The Morphotropic Phase Boundary: My Part in its Downfall"	2003
1st School on Raman Scattering, Les Houches: "Optical birefringence studies"	2002
IMF10 Madrid: "The Braggs"	2001
University of Kyushu, Japan: "Birefringence imaging at phase transitions"	2000
University of Fukuoka, Japan: "Birefringence imaging at phase transitions"	2000
ECM Nancy: "Teaching crystallography to reluctant physicists"	2000
IUCr Glasgow: "Birefringence imaging at phase transitions"	1999
German Crystallographic Association, Hamburg: "New crystal optical techniques"	1997
Gregori Aminoff Symposium, Stockholm: "Incommensurate as an End Member of Disorder", in presence of His Majesty King of Sweden	1998

IMF96, Seoul:	
“Tutorial in modern crystal optics and ferroic phase	1995
EMF7: Nijmegen:	
"Optical Rotation in Crystals"	1995
Gordon Conference on Phase Transitions in Non-metallic Solids, Volterra:	
"Optical Activity and Crystal Structures"	1994
Norwegian Physical Society, Rondabblik:	
"Crystal Optics and Structures"	1994
IUCr8, Beijing:	
"The Journal of Applied Crystallography"	1993
DYSPROSO, Lunteren:	
"Optical Activity and Crystal Structures"	1993
ECM9-14, Enschede:	
"Throwing Light on Crystals"	1992
IUCr, Bordeaux:	
(a) "The Teaching of Crystal Properties to Physics Undergraduates"	
(b) "Chiral-polar Properties and Chiral-polar Crystal Structures"	1990
ECM-11, Vienna:	
(a) "Phase Transitions"	
(b) "The Use of Polarisabilities in Determining Optical Activity"	1988
ECM-10, Wroclaw:	
"The Role of Crystal Optics in the Study of Phase Transitions"	1986
ECM-9, Torino:	
"Is the Left Always Right?"	1985
IUCr, Hamburg:	
"Anomalous Behaviour of Physical Properties at Phase Transitions"	1984
X'th Conference on Applied Crystallography, Kozubnik, Poland:	
"High and Low-temperature X-ray Continuous-recording Experiments at Phase Transitions"	1980
ECM-5, Copenhagen:	
"Birefringence Experiments on Phase Transitions in Ferroic Crystals"	1979
IUCr, Warsaw:	
"Energy-dispersive Methods with Synchrotron Radiation"	1978
Wiggler Meeting, Frascati:	
"X-ray Diffraction with Synchrotron Radiation"	1978
IUCr, Kyoto:	
"High-temperature Phase Transitions in Sodium Niobate and the Use of Tilting Schemes in the Solution of Perovskite Structures"	1972

6 International Meeting on Ferroelectricity
7 European Meeting on Ferroelectricity
8 International Union of Crystallography
9 European Meeting of Crystallography

Invited International Research Fellowships/Professorships

University/ Dept	Host	Period	Year
Waseda University, Tokyo, Japan: Physics	Prof. J. Kobayashi	1 month	1985
Uppsala University, Sweden: Chemistry	Prof. J.O. Thomas	3 months	1986
ANU, Canberra, Australia: Chemistry	Dr. T.R. Welberry	3 months	1992-1993
Waseda University, Tokyo, Japan: Physics	Prof. Y. Uesu	2 weeks	2007
Warwick University	Visiting Professorship	2011	2016
Polytechnic of St. Petersburg	Prof. S. Vakhrushev	2 weeks	2016

Major Conferences Organized

International Union of Crystallography Congress Glasgow (member of organizing committee)	1999
BCA, Oxford	1989
ECM, Oxford (member of organizing committee)	1977
Helped W.H. Taylor plan 80th birthday celebrations for W.L. Bragg	1970

Invited International Examinations

Ph. D.	Department of Physics, Ecole Centrale Paris	2004
	Department of Physics in Bilbao, Spain	1994
	Department of Physics in Nijmegen, Netherlands	1995
	Department of Applied Chemistry, Geneva, Switzerland	1995
Professorship	Department of Chemistry, Stockholm, Sweden	2001
	Department of Physics, Oulu, Finland	2005

Societies

Physics	Institute of Physics	1970 -2013
	American Institute of Physics	1969 -
Crystallography	American Crystallographic Association	1969 -
	British Crystallographic Association	1982 -
Chemistry	Chemical Society	1969 -

General	Royal Institution of Great Britain	1980 -
Minerals	Mineralogical Society	1999-

Major External Committees

Crystallography

IUCr representative to the Executive Committee of the International Council for Scientific and Technical Information (ICSTI)	2015-
Elected Vice-President of the International Union of Crystallography (IUCr)	2014-
Consultant to the Commission on Crystallographic Nomenclature of the IUCr	2011-
Member of International Scientific Advisory Committee of the Electronics Division of the American Ceramics Society	2009-
Member of CCLRC Materials and Engineering Facility Access Panel	2004-2006
President of British Crystallographic Association	1996 –2000
Past President of British Crystallographic association, Office of Council	2000-2001
Member of Finance Committee of the International Union of Crystallography	1996 –2002
Chairman of Promotions Committee of the International Union of Crystallography	1996 –2002
Physical Crystallography Group (Inst. of Physics)	1980-1990
Chairman	1987-1990
Chairman of Chemical Crystallography Selection Committee at ISIS, Rutherford Laboratory	1985-1987
Chemistry Selection Committee at ILL, Grenoble	1990 –1995
appointed Chairman	1995 – 1997
Journals Commission of the International Union of Crystallography (IUCr)	1985 –2000
Committee on Nomenclature of the IUCr.	1990 –1997
Royal Society member of the British National Committee for Crystallography	1982-1987
UK delegate to the IUCr	1987-1990, 1996
Synchrotron Radiation Facility Committee of SERC	1979-1981

General Academic

In 1982 Prof. Z. Pelczynski, Dr. K. Wilkes and I established the Oxford Colleges Hospitality Scheme for Polish Scholars (OCHSPS). Since then I have also been a member of the Soros Committee and a governor and treasurer of the Stefan Batory Trust.

Member of Physics College of EPSRC 1996-2002
Honorary Member of British Crystallographic Association 2005-

Publishing Activities

Editorship of International Journals	Editor-in-Chief of PHASE TRANSITIONS	1979-2004
	Co-Editor of JOURNAL OF APPLIED CRYSTALLOGRAPHY	1985 – 1990
	Editor-in-Chief	1990 – 2000
Other	Board Member of Ukrainian Journal of Physical Optics	2000 -
	Member of Book Series Committee of IUCr with Clarendon Press	
	Member of Board of Reports in Progress in Physics	
	Co-editor of Condensed Matter News	
	Science adviser to Gordon and Breach Science Publishers	

Industrial Activities

Oxford Cryosystems

In 1986 I set up with J. Cosier a partnership to market low-temperature apparatus for crystallographers. This product has secured the market lead and our firm, Oxford Cryosystems, is now the world's leading manufacturer of such equipment. We have 10 employees and most of the products are exported. In addition, we have been writing powder diffraction software for a Japanese company. More recently, I have been supervising the development and marketing of a new software product for PC's, Crystallographica, a programming language for crystallographers, solid state physicists, chemists and materials scientists. This was launched at the beginning of 1996. Oxford Cryosystems has also supported a student in my group to design and build a new microscope imaging system. Oxford Cryosystems was acquired by Ferraris PLC on August 1st 2000 and then by Bionostics Inc. (USA). In 2010, we bought the company back and now I am a part owner.

Consultancy For several years I was a consultant for the Allen Clark Research Centre (Plessey Ltd)

Expert Witness I have acted as expert witness and consultant a number of patent cases, mainly dealing with pharmaceuticals

Publications

Introduction

The following is a complete list of all publications of myself and others working with me.

They are given in year order.

Papers marked with a number in parentheses are those of special mention.

Listing

- 1968** Glazer, A.M. and S. Pramatus. (1968). Refractive indices of mixed crystals of phenazine and n-oxyphenazine. *Nature*, **217**, 58.
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- 1970** Glazer, A.M. (1970). IV. Mixed crystals of phenazine and n-oxyphenazine: Refinement of crystal structures. *Phil. Trans. Roy. Soc.*, **266A**, 593.
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- 1972** **(1)** Ahtee, M., A.M. Glazer and H.D. Megaw. (1972). The structures of sodium niobate between 490 and 575 C, and their relevance to soft-phonon modes. *Phil. Mag.*, **26**, 995.
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- Ishida, K. and A.M. Glazer. (1974). Cation displacements and octahedral tilts in NaNbO_3 :Pt II Relationship between birefringence and structure. *Ferroelectrics*, **6**, 293.
- 1975** (3) Bordas, J., A.M. Glazer and H. Hauser. (1975). X-ray topography of phase transitions using synchrotron radiation. *Phil. Mag.*, **32**, 471.
- Clarke, R. and A.M. Glazer. (1975). Critical phenomena in ferroelectric crystals of lead zirconate-titanate. *Acta Cryst.*, **A31**, S194.
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