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 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 ABO_4 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 $LiNbO_3/LiTaO_3$ 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 Collaborat-ive 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.

(36) This paper probably finds the final explanation of piezoelectricity in PZT ceramics.

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

Oral history for IEEE interviewed by R. Whatmore https://ethw.org/Oral-History:Mike_Glazer 2018

Interviews for Indian TV https://www.youtube.com/watch?v=rSETTUSbLFU and http://tinyurl.com/ycpb6njf IUCr Congress Hyderabad, India 2017

Video of Bragg Lecture & Friday Evening Discourse at Royal Institution "The Wondrous World of Perovskites" https://www.youtube.com/watch?v=v9bMEUr2II4 2017

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 2013 (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 Welcome Trust http://www.ndm.ox.ac.uk/part-2-the-history-of-structural-biology 2014

Press Release for IUCr International Year (http://www.iycr2014.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" 2105

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

CMMP97[1], Exeter: "Optical Properties and Crystal Structures" 1997

BCA Industrial Group: "The Future of X-ray Diffraction" 1997

Bragg Lecture: "Crystals Make Light Work" at BCA[2] Newcastle 1994

RSC[3], Durham: "X-ray Diffraction. Can you Swear by your Results?" 1993

IOP[4], Lancaster: "X-ray Diffraction. Can you Swear by your Results?" 1993

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

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

BCA, Nottingham: "The Powder Diffraction Facility at the Daresbury Laboratory" 1984

4'th EPS[5] General Conference, York: "X-ray Crystallography using White Radiation from Synchrotrons" 1978

[5] European Physical Society

International

ICTP, Trieste: “Then, now and …?”
https://www.youtube.com/watch?v=vawmc_AFeYQ
2019

Mathcryst School, Bogotá, Colombia 2018

Argentinian Crystallographic Association School on Phase Transitions. 3 Lectures 2018

Argentinian Crystallographic Association “Structural Studies of $PbZr_{1-x}Ti_xO_3$: From Average to Local Order” 2018

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 Czochralski?” 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

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: Birefingence 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

IMF9[6], Seoul: “Tutorial in modern crystal optics and ferroic phase
EMF[7]: 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

IUCr[8], Beijing: "The Journal of Applied Crystallography" 1993

DYSPROSO, Lunteren: "Optical Activity and Crystal Structures" 1993

ECM[9]-14, Enschede: "Throwing Light on Crystals" 1992

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

IUCr, Bordeaux: 1990
(a) "The Teaching of Crystal Properties to Physics Undergraduates"
(b) "Chiral-polar Properties and Chiral-polar Crystal Structures"

ECM-11, Vienna: 1988
(a) "Phase Transitions"
(b) "The Use of Polarisabilities in Determining Optical Activity"

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

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

Editor-in-chief of IUCr Newsletter	2018-
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)	2014-2017
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, Officer 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
	Board Member of Ukrainian Journal of Physical Optics 2000 -
Other	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 21 employees and most of the products are exported. In addition, we have been writing powder diffraction search-match software, which is used in Panalytical diffractometers. Oxford Cryosystems 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 have resold it to Judges Ltd.

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 in my research group. 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.

Glazer, A.M. and S. Pramatus. (1968). Habit changes in mixed crystals of phenazine and n-oxyphenazine. *Nature*, **218**, 1246.

1969 Gougoutas, J.A., J.C. Clardy, A.M. Glazer, L. Lessinger and S. Singh. (1969). Single crystal reactions and transformations of 2-iodobenzoyl peroxides. *Acta Cryst.*, **A25**, S232.

1970 Glazer, A.M. (1970). IV. Mixed crystals of phenazine and n-oxyphenazine: Refinement of crystal structures. *Phil. Trans. Roy. Soc.*, **266A**, 593.

Glazer, A.M. (1970). V. Variation of physical properties with composition of phenazine-n-oxyphenazine mixed crystals. *Phil. Trans. Roy. Soc.*, **266A**, 623.

Glazer, A.M. (1970). VI. Short-range order in n-oxyphenazine and in mixed crystals of phenazine-n-oxyphenazine. *Phil. Trans. Roy. Soc.*, **266A**, 635.

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.

Bett, N. and A.M. Glazer. (1972). A high-temperature apparatus for accurate single crystal and powder X-ray studies. *J. Phys.*, **E5**, 1178.

(2) Glazer, A.M. (1972). The classification of tilted octahedra in perovskites. *Acta Cryst.*, **B28**, 3384.

Glazer, A.M. (1972). A technique for the automatic recording of phase transitions. *J. Appl. Cryst.*, **5**, 420.

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1973 Glazer, A.M. and H.D. Megaw. (1973). Studies of the lattice parameters and domains in the phase transitions of $NaNbO_3$. *Acta Cryst.*, **A29**, 489.

Glazer, A.M. and H.D. Megaw. (1973). The structure of sodium niobate at 600 C, and the cubic-tetragonal transition in relation to soft-phonon modes. *Phil. Mag.*, **25**, 1119.

1974 Ahtee, M. and A.M. Glazer. (1974). Phase transitions in sodium niobate-potassium niobate solid

solutions. *Ferroelectrics*, **7**, 93.

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Glazer, A.M. and K. Ishida. (1974). Cation displacements and octahedral tilts in $NaNbO_3$: Pt I Determination from X-ray difference reflections. *Ferroelectrics*, **6**, 219.

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.

Glazer, A.M. (1975). Recent applications of ferroelectrics, *The Encyclopaedic Dictionary of Physics*, (Pergamon)

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Ahtee, M. and A.M. Glazer. (1976). Lattice parameters and tilted octahedra in sodium-potassium niobate solid solutions. *Acta Cryst.*, **A32**, 434.

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(4) Bordas, J., I.H. Munro and A.M. Glazer. (1976). Small-angle scattering experiments on biological materials using synchrotron radiation. *Nature*, **262**, 541.

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(5) Clarke, R. and A.M. Glazer. (1976). Critical phenomena in ferroelectric crystals of lead zirconate-titanate. *Ferroelectrics*, **14**, 695.

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(7) Bourdillon, A.J., A.M. Glazer, M. Hidaka and J. Bordas. (1978). High-resolution energy-dispersive diffraction using synchrotron radiation. *J. Appl. Cryst.*, **11**, 684.

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