

## **Curriculum Vitae**

Dr RICHARD PETER TAYLOR

### **Qualifications**

PhD Mineral Physics St Andrews 2013

BSc Hons (first class) in Gemmology and Applied Mineralogy Kingston 2009

FGA Fellow by examination of Gemmological Association of Great Britain 1981

DGA Diamond Grading Diploma Gemmological Association of Great Britain 1990

RJ Dip Retail Jewellers Diploma (National Association of Goldsmiths) 1980

### **Memberships**

MIEW Member of the institute of expert witnesses 2014

FIRV Fellow Member of the Institute of Registered Valuers 2009 (1987)

FNAG Fellow of the National Association of Goldsmiths 2001

MAE Practising member of the Academy of Experts 1995

FHEA Fellow of the Academy of higher education 2011

FGS Fellow of the Geological Society 2013

AMRICS Associate member of the Royal Institute chartered surveyors 2014

Member of the London Diamond Bourse 2016

### **Current Positions**

Managing Director & senior Consultant Taylor & Co Ltd

Director /Company Secretary Perry Riding for the Disabled Association

### **Experience Includes**

1996-2005 Founding Owner / Managing Director, of a jewellery service company Safeguard, it became the largest jewellery valuation company in UK, and to the best of my knowledge the world. Offices in Birmingham, London and, New York.

I sold the company in 2005 its customers included all major UK multiple retailers representing over 1000 retail shops equivalent to over 50% of the traditional retail jewellery shops in the UK. Customers included Mappin and Webb, Watches of Switzerland, Goldsmiths group, Signet group, Beaverbrooks, JJ Ruddell, David Robinson and F Hinds. In the US, customers included Tiffany, Sterling, and Avon. I successfully launched an international gem and diamond Grading Laboratory in UK, by 2005 it was the largest Gemmological Lab in UK.

1997-2001 Managing Director of jewellery design Company set up for the Signet group PLC. Initially as consultant and then on a 1 year rolling part time contract. The

company serviced the groups 600+ retail stores, with a bespoke jewellery design and manufacturing service.

Progressive management positions within several Multiple Jewellery Retailers  
Responsible for sales and latterly purchasing and marketing policy and performance.  
1992-1993 General Manager in Jewellery Manufacturing and Import Company Kartel  
with overall responsibility for sales, stock control, work processing, import, export  
and performance

International Consultant with contracts in North and South America Africa and  
Europe.

1990-1992 Consultant for a chain of auctioneers.

1996 Expert witness for Police and insurance companies in civil and private litigation  
cases around the U.K.

Trained and experienced in role of joint expert

2014-2017 Lecturer Birmingham City University Valuation science & Advanced  
Gemmology

2013-2019 Distinguished Visiting Professor China University of Geosciences  
Academy of Gem Sciences

2013-2019 Honorary Research Fellow The University of St Andrews

### **Employment History**

1977-1978 Management trainee with Zale's Corporation

1978-1979 Geoffrey Richard Group retail shop manager Cardiff

1979-1980 Opened new shop for Walker and Hall Ltd.

1980-1981 Area manager Herbert Wolf Group

1982-1985 General Manager group of Retail Jewellers 'Eustance Group' responsible  
to non-executive board of directors for all aspects of business management and  
performance.

1985-1987 General Manager Jewellery manufacturers included relocating whole  
operation to Birmingham

1987-2005 P.J.S. Ltd (latterly Safeguard Quality Assurance Ltd.) Director, Valuer,  
and Company consultant. The largest company of jewellery valuers in the UK  
Taylor & Co 2005- present

Birmingham City University 2014- 2019

China University of Geosciences 2013- 2019

### **Reviewer**

Philosophical magazine and philosophical magazine letters

NJbMin

Naturwissenschaften

Applied surface science

Journal of gemmology

## **Guest lectures and presentations**

Colour and luminescence in minerals Birmingham University Feb 2010-04-14  
Birmingham University  
Defect and luminescence systems in Diamond Birmingham University April 2010  
Birmingham University  
EXAFS and TROD XANES investigation into substitutional and lattice defect structures in feldspar 17th February 2011 Kingston University  
EXAFS and TROD XANES investigation into substitutional and lattice defect structures in feldspar May 2011 Birmingham University  
Lecturer on undergraduate module understanding geology The University of St Andrews Lecturer 2012 and 2013  
Assistant Course coordinator and Tutor 'Great Ideas' cross-disciplinary undergraduate module 2012,2013 the University of St Andrews  
Keynote speaker 2013 Conference on Raman and Luminescence Spectroscopy in the Earth Sciences (coral) conference Vienna  
Organiser & principal lecturer CPD day for gemmologists The University of St Andrews 2013  
Institute of registered valuers 2013 Loughborough university  
Institute of registered valuers 2014 Loughborough university  
Oral presentation the De Beers diamond conference Warwick University 2013  
Poster presentation the De Beers diamond conference Warwick University 2014  
Invited keynote speaker gemmology conference Wuhan 2015  
Guest Lecturer jewellery, gems, diamonds and watches in Forensic science Kings college London 2019  
Keynote speaker October 2014 at the GIC annual conference Wuhan China  
Invited annual graduate lecture series China University of Geosciences 2013 -2018

## **Other Roles**

Assistant editor Earth Sciences Versita Open Access Books Program 2013  
Member of European luminescence dating research group HAZARD 2012  
CIBJO conference delegate 3 years 2001-2004

## **Publications:**

TAYLOR, R. P., FINCH, A. A., MOSSELMANS, J. F. W. & QUINN, P. D. 2013. The development of a XEOL and TR XEOL detection system for the I18 microfocuss beamline Diamond light source. Journal of Luminescence.  
A KARATUTLU, W R LITTLE, A V SAPELKIN, A DENT, F MOSSELMANS G CIBIN AND R TAYLOR 2012. OD-XAS and EXAFS: Structure and Luminescence in Ge Quantum Dots. XAS Research Review, 2.  
ANDREI V. SAPELKIN, D. B., WILLIAM LITTLE, ALI KARATUTLU, KOSTYA TRACHENKO, ANDY DENT, FRED MOSSELMANS, GIANANTONIO CIBIN,

RICHARD TAYLOR 2012. Origin of Photoluminescence in Ge Quantum Dots. Nature Nanotechnology in review.

MOSSELMANS, J. F. W., TAYLOR, R. P., QUINN, P D., FINCH, A. A., CIBIN, G., GIANOLIO, D., SAPELKIN, A. V. 2012. A time resolved microfocus XEOL facility at the Diamond Light Source. Journal of physics: conference series, JPCS159R1.

KING, G. E., FINCH, A. A., ROBINSON, R. A. J., TAYLOR, R. P. & MOSSELMANS, J. F. W. 2011. The problem of dating quartz 2: Synchrotron generated X-ray excited optical luminescence (XEOL) from quartz. Radiation Measurements, 46, 1082-1089.

### **Conference abstracts**

TAYLOR R.P., Finch. A. A., MOSSELMANS J.F.W., DONALDSON C. H. XAFS of trace elements in gem quality feldspar. In: IMA 2010, 2010 Budapest. IMA.

TAYLOR, R. P. Mosselmans., J.F.W. FINCH, A.A. QUINN, P.D. 2011 Time resolved luminescence of framework silicates. In: Goldschmidt, Prague. Mineralogical Magazine 2011.

TAYLOR R.P., Finch. A. A., MOSSELMANS J.F.W., QUINN P.D. Applications of Fluorescence in Gemology, GIA symposium California May 2011 Gems and gemology June 2011

TAYLOR R.P., MOSSELMANS J.F.W., Finch. A. A., QUINN P.D. X-ray Luminescence of Framework Silicates, Prague Goldschmidt 2011 Mineralogical Magazine, Vol. 75 (3), 2011

TAYLOR R.P., Finch. A. A., MOSSELMANS J.F.W., QUINN P.D Time Resolved Fluorescence of Framework Silicates ECMS conference September 2011 ESMS Potsdam.

TAYLOR R.P., Finch. A. A., MOSSELMANS J.F.W., QUINN P.D. Microfocus X ray and laser fluorescence, analytical and mapping techniques, on heterogeneous minerals Goldschmidt 2012 Mineralogical Magazine

Richard P. Taylor Pre-owned prestige watches Retail jeweller January 2014

Richard P. Taylor Diamonds gemstones and jewellery, it's all about value, isn't it? Solicitors Journal February 2014

Richard P Taylor Synthetic diamonds facts and figures October 2018 British Jeweller

Richard P Taylor Synthetic diamonds facts and figures December 2018 British Jeweller

Richard P Taylor Synthetic diamonds facts and figures January 2019 British Jeweller

### **Publications Refereed**

Joint Referee for Kibar et al Chemical and Optical Investigation of The Anatolian Amethyst crystals having Five Representative Shades of Purple Colour.

Philosophical magazine and philosophical magazine letters.

Referee for M. Hatipoglu Spectral, electron microscopical, and chemical characteristics of the gem-quality silica-rich massive rhodonite, Menderes-Izmir, Turkey NJbMin

Referee Green Luminescing Hyalite opal from Zacatecas Mexico The Journal of Gemmology

Referee the testing of Jet samples using ion beam analysis Gems and gemmology

**Guest lectures and presentations**

Colour and luminescence in minerals Birmingham University Feb 2010-04-14

Birmingham University

Defect and luminescence systems in Diamond Birmingham University April 2010

Birmingham University

EXAFS and TROD XANES investigation into substitutional and lattice defect structures in feldspar 17th February 2011 Kingston University

EXAFS and TROD XANES investigation into substitutional and lattice defect structures in feldspar May 2011 Birmingham University

Keynote speaker 2013 Conference on Raman and Luminescence Spectroscopy in the Earth Sciences (coral) conference Vienna

Organiser & principal lecturer CPD day for gemmologists The University of St Andrews 2013

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