

**CURRICULUM VITAE**  
**Dr RICHARD PETER TAYLOR**

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**Skills and strengths**

Experienced valuer with international practice extensive experience in expert work and consultancy

Extensive experience of board membership and chairmanship in both commercial and public service environment.

A successful track record of managing acquisitions and business development in UK and internationally.

Recognised for innovation and restructuring within academia with numerous successful research tenders and collaborations.

Demonstrated commercial successes within industry, established leadership and management skills  
I am an effective communicator with the ability to lead, inspire, motivate and develop the staff to meet the commercial demands of a project or company.

I have extensive presentation experience, and strong interpersonal skills, and can act as an effective facilitator.

I have an extensive network within academia and commerce including researchers and innovation academics within their field. I am a team player at heart believing success is best achieved through collaborative and team work through enthusiasm and commitment to working together with a common goal.

During my period at the Diamond Light Source I designed, built, and successfully deployed a unique time resolved fluorescence spectrometer system on the I18 microfocus beamline. I also organised an innovatory joint research project with the UK EPSRC Laser facility

Samaritan 1990- 1994 developed the ability to discuss challenging subjects in stressful circumstances  
Foster carer in conjunction with my wife from 2007-2011

Director/ secretary Perry RDA charity 2017 £1,300,000+ responsibilities development project, restructuring governance and funding.

**Current Positions**

Chairman and Consultant Taylor & Co Ltd  
Director/charity secretary Perry Riding for the disabled (RDA)  
STEM ambassador Staffordshire and Shropshire

**Other Roles**

Director/secretary of Perry Riding for the Disabled 2017-present  
Assistant editor Earth Sciences De Gruyter Open Access Books Program 2013 - present  
Member of European luminescence dating research group HAZARD 2012 - present  
CIBJO conference delegate 3 years 2001-2004

### **Experience Includes**

Senior management positions within several Multiple Jewellery Retailers. Rapid progression to senior management and Director Level Responsibilities included sales, purchasing, marketing policy and overall company performance.

General Manager in Jewellery Manufacturing and Import Company with overall responsibility for sales, stock control, work processing, import, export and performance.

Founder and Chairman of service company Safeguard Quality Assurance Limited, leading it to become the largest specialist company in its field in the UK, with Offices in Birmingham, London latterly New York

Managing Director of jewellery design Company servicing the Signet group PLC providing the groups 600+ retail stores, with a bespoke jewellery design and manufacturing services.

Managing director of repair and manufacturing workshops servicing over 700 retail jewellers

Founder and chairman of International Consultancy working with numerous blue-chip PLC's.

International Consultancy delivering government projects in the Middle east and Africa.

Consultant Practice in the UK including expert witness practice providing expert reports on value, authenticity, and compliance under TS legislation for solicitors, police, HM Revenue and Customs, insurance companies and other financial institutions.

Authored and delivered a series of specialist lectures for post graduates for The China University of Geosciences every year June 2014 -2018. Successfully created and delivered a new CPD course for Gemmologists at the University of St Andrews (2014)

I created developed launched a new BSc honours degree at Birmingham City University (2014-2017)  
Lecturer Birmingham City University in the School of Jewellery

Jewellery adviser to the Royal Family Qatar

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

Director/secretary of Perry RDA where I have made a significant impact in success of major project for a major new building project.

### **Qualifications**

PhD Mineral Physics St Andrews 2013

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

FGA Fellow of the Gemmological Association of Great Britain 1981

DGA Diamond Grading Diploma Gemmological Association of Great Britain 1990

RJ Diploma (National Association of Jewellers) 1980

FHEA Fellow of the Academy of higher education 2011

### **Memberships**

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

FNAG Fellow of the National Association of Goldsmiths 2001

MAE Practicing member of the Academy of Experts 1995

FGS Fellow of the Geological Society 2013

MIEW Member of the institute of expert witnesses

Member of the Scottish gemmological association

Member of the society of expert witnesses

Member of the mineralogical association of GB

Member of the Russell society

Member of the mineralogical society of American

### 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  
1997-2007 non-executive chairman Patches Ltd  
1987-2005 P.J.S. Ltd (latterly Safeguard Quality Assurance Ltd.) Chairman, and Company consultant. The largest company of jewellery valuers in the UK and USA  
2014-2017 Birmingham City University Lecturer Advanced gemmology and valuation science  
2014-2019 Honorary Post-Doctoral Research Fellow, The University of St Andrews  
2014-2019 Distinguished Visiting Professor The China University of Geosciences Wuhan China

### Guest lectures and presentations

Colour and luminescence in minerals Birmingham University Feb 2010 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  
Joint Course coordinator and Tutor 'Great Ideas' cross-disciplinary undergraduate module 2012,2013 the University of St Andrews  
Loughborough course tutor 2012 and 2013 NAG IRV conference  
Keynote speaker 2013 Conference on Raman and Luminescence Spectroscopy in the Earth Sciences (coral) conference Vienna  
Principal Lecturer CPD day luminescence spectroscopy The University of St Andrews 2013  
Keynote speaker October 2014 at the GIC annual conference Wuhan China  
Oral presentation the De Beers diamond conference Warwick University 2013  
Poster presentation the De Beers diamond conference Warwick University 2014

### 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** 2014. Origin of Photoluminescence in Ge Quantum Dots. Nature Scientific Reports.

MOSSELMANS, J. F. W., **TAYLOR, R. P.**, QUINN, P D., FINCH, A. A., CIBIN, G., GIANOLIO, D., SAPELKIN, A. V. 2012. A time resolved microfocuss 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.

HATCH, SABINA M. SAPELKIN, ANDREI CIBIN, GIANNANTONIO **TAYLOR, RICHARD** DENT, ANDREW BRISCOE, JOE DUNN Investigating the source of deep-level photoluminescence in ZnO nanorods using optically detected x-ray absorption spectroscopy Journal of Applied Physics 2013 114-15

SABINA M. SAPELKIN, ANDREI CIBIN, GIANNANTONIO **TAYLOR, RICHARD** DENT, ANDREW BRISCOE, JOE DUNN Structural Origin of Light Emission in Germanium Quantum Dots cond-matter mes Hall September 2013 <http://arxiv.org/abs/1309.3951>

**Taylor. Richard** diamonds gemstones and jewellery, Solicitors Journal, December 2014

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

Finch, Adrian A\*, King Georgina E, Taylor Richard P Mosselmans JFW Dose Rate and Lifetime Dependence of Quartz XEOL

**Taylor Richard,** Synthetic diamonds analysis The Jeweller September 2018

**Taylor Richard,** Back to the Future -Synthetic gemstones in the past can we learn any lessons for the future? The Jeweller November 2018

**Taylor Richard,** The challenges and science behind the screening and testing for synthetic and treated Diamonds. The Jeweller January 2019

### **Conference abstracts**

**Taylor RP,** Finch AA X-ray excited spectroscopy and thermoluminescence studies in diamond De Beers conference 2015

**Taylor RP,** Finch AA FLIM imaging in diamond De Beers conference 2013

Taylor RP, Finch AA keynote speaker TR and CW imaging in minerals and gems Corals conference Vienna 2013

**Taylor RP** Fluorescence testing in gemstones conference workshop NAJ IRV conference Loughborough 2014

**Taylor RP** Fluorescence in gemstones conference workshop NAJ IRV conference Loughborough 2013

**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

**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. Applications of Fluorescence in Gemology, GIA symposium California May 2011Gems and gemology June 2011

**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. Time Resolved Fluorescence of Framework Silicates ECMS Conference September 2011 ESMS Potsdam.

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

Finch, Adrian A1\*, King Georgina E2,1, **Taylor Richard** P3,1,4, Mosselmans JFW4 Dose Rate and Lifetime Dependence of Quartz XEOL 2016 UK Luminescence conference

### **Reviewer**

Philosophical magazine and philosophical magazine letters

NJbMin

Naturwissenschaften

Journal of Gemmology

Gems and jewellery

Gems and gemmology