

CURRICULUM VITAE



Professor RICHARD PETER TAYLOR

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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 Jewellers) 1980

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

FHEA Fellow of the Academy of higher education 2011

FGS Fellow of the Geological Society 2013

Associate Member of RICS Royal institute of chartered surveyors

Member of the Scottish gemmological association

Member of the institute of expert witnesses

Member of the society of expert witnesses

Member of the mineralogical association of GB

Member of the Russell group

Member of the mineralogical society of American

Member of the geological society of America

Current Positions

Honorary Post-Doctoral Research Fellow, The University of St Andrews

Lecturer Birmingham City University The science of Valuation & Advanced Gemmology

Distinguished Visiting Professor China University of Geosciences Academy of Gem Sciences

Director and Consultant Taylor & Co Ltd

Experience Includes

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 with over 1000 retail shops representing approximately 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 Gem Lab in UK offices in Birmingham London and New York.

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.

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

Founder and MD of International Consultancy working with blue chip PLC's.

Consultant for auctioneers.

Expert witness practice with clients include Solicitors, Police, Insurance companies and major financial institutions in civil, criminal and private litigation throughout the U.K. and internationally. Trained and experienced in role of single joint expert.

Created and presented three-week lecture series for China university of geosciences June 2014/ 2015/ 2016 with 2017 scheduled.

Successfully created and delivered a new CPD course for gemmologists at the University of St Andrews (2014)

Skills and strengths

A track record of high quality innovation activity is demonstrated throughout my commercial successes within industry, my leadership and management skills where honed. I had to be an effective communicator with the ability to lead inspire and motivate and develop the companies staff to meet the commercial demands of a growing company. Presentation skills strong interpersonal skills and the ability to act as an effective facilitator were essential.

I gained from my time in industry experience of the leadership of innovation initiatives including staff development and support in managing change and its associated challenges.

I have a growing network of contacts with other universities, 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 working together with a common goal.

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

Reviewer

Philosophical magazine and philosophical magazine letters

NJbMin

Naturwissenschaften

Journal of Gemmology

Gems and jewellery

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

Other Roles

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

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 microfocus 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.

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>

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

Richard Taylor Colour communication in gemmology (in review) 2017

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 2011 Gems 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