



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 of the Institute of Registered Valuers 2009 (1987)
FNAJ Fellow of the National Association of Jewellers 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
Member of the Scottish gemmological association
Member of The academy of experts
Member of the institute of expert witnesses
Member of the society of expert witnesses

Current Positions

Partner and Consultant Taylor & Co Ltd
Honorary Research Fellow The University of St Andrews
Lecturer Birmingham City University The Valuation science & Advanced Gemmology
Distinguished Visiting Professor China University of Geosciences Academy of Gem Sciences

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. Presented Three week lecture series in China June 2015

I successfully launched an international gem and diamond Grading Laboratory in UK, by 2005 it was the largest Gem Lab in UK.

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 Kartel with overall responsibility for sales, stock control, work processing, import, export and performance

International Consultant with experience in North and South America Africa and Europe Asia.

Consultant for a chain of auctioneers.

Expert witness clients include solicitors Police insurance companies and major financial institutions in civil and private litigation cases around the U.K. and internationally
Trained and experienced in role of joint expert

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

Guest lectures and presentations

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
Assistant Course coordinator and Tutor 'Great Ideas' cross-disciplinary undergraduate module 2012,2013 the University of St Andrews
Loughborough 2012 and 2013 NAG IRV conference
Invited 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
Invited 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 2013

Conference abstracts

Taylor RP, Finch AA X-ray excited spectroscopy and thermoluminescence studies in diamond **De Beers conference 2014**

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 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