

Dr. Petr Kilian

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Employment:

08/2016 – now Senior Lecturer, University of St Andrews University, UK
2009 – 2016 Lecturer, University of St Andrews University, UK
2005 – 2009 EaStCHEM Academic Fellow, University of St Andrews, UK
2000 – 2005 Postdoctoral Research Fellow, University of St Andrews, UK
1999 – 2000 Technical Sales Representative, Bruker GmbH in Czech Republic
1998 – 1999 Royal Society & NATO Postdoctoral Research Fellow, Loughborough University, UK

Qualifications:

1998 PhD in Inorganic Chemistry, Masaryk University, Brno, Czech Republic
1994 MSc in Inorganic Chemistry (with distinction), Masaryk University
1992 BSc in Chemistry (with distinction), Masaryk University

Professional Activity:

- Member (Group leader) of European Phosphorus Sciences Network and European Network on Smart Inorganic Polymers
- Visiting fellowship at University of Bonn (May 2014)
- Associate editor for Cogent Chemistry journal
- Refereeing for ACS, RSC, Wiley, Elsevier
- Refereeing for DFG, Polish National Science Centre, Bragg Institute (Australia), Nanyang University Singapore
- Fellow of the Royal Society of Chemistry (FRSC)
- St Andrews University Teaching Excellence award (2014)
- Best Teacher in Chemistry Award (Honours Classes, 2014-2015)

Grant awards:

Stable Phosphorus Centred Radicals and Odd Electron Bonds – EPSRC, First Grant Scheme, £206,427.

Interdisciplinary Workshop in Synthesis and Catalysis (as co-investigator) – EPSRC, Overseas Travel Grants, £11,621.

Zero-waste process for organophosphite plastic additives – Thermphos International (industrial sponsor) and EPSRC, New Academics CASE, £83,319.

Examining a proposed unusual hydride position in an organophosphorus-arsenic compound – Neutron diffraction beamtime at ANSTO (Australia), \$AU 25,200.

European Phosphorus Sciences Network – travel grant ca £3,000.

Supervised PhD Students, Postdoctoral Fellows etc.:

Bethany Lawson, CDT Criticat PhD student (09/2015 – now); prior to that Honours research project student (2013-2014), *Synthetic Studies on Crowded Organophosphorus Compounds*

Thomasine Curzon, CDT Criticat PhD student (09/2016 – now)

Lu-Tao Zhang, CSC funded PhD (09/2016 – now), supervised jointly with Prof J. D. Woollins

Emma Barker, Honours Research Project Student (2017/18)

Eden Portman, Honours Research Project Student (2017/18)

Boris Bosilkov, Honours Research Project Student (2017/18)

Laurence Taylor, PhD student (10/2013 – 09/2017), thesis *Eliminations Across the peri-Gap: peri-Substitution as a Means to Promote Kinetically Disfavoured Reactivity*

Iris Martyn (Summer Project 2017)

Phillip Nejman, PhD student (10/2013 – 02/2017), supervised jointly with Prof J. D. Woollins, thesis *A Synthetic and Structural Investigation of Pnictogen and Chalcogen peri-Substituted Naphthalenes*

Rachel Doyle, Honours Research Project Student (2016/17), *A Synthetic and Spectroscopic Study of the Coordination Chemistry of a Bis(acenaphthyl) Stibine Ligand*

Zachary Davis, Honours Research Project Student (2016/17), *Coordination Chemistry of a peri-Substituted Diphosphane*

Francesca Christie, Honours Research Project Student (2016/17, supervised jointly with Dr B Chalmers

Brian Chalmers, EPSRC+ Postdoctoral Fellow (09/2015-08/2016); prior to that PhD student (09/2011 – 04/2015), thesis *A Synthetic, Spectroscopic and Structural Examination of Phosphorus, Arsenic and Antimony peri-Substituted Acenaphthenes*; prior to that Honours Research Project Student 2010-2011)

Sara Saez, Visiting doctoral fellow (March-July 2016), home institution Instituto de Tecnología Química (UPV-CSIC) and Universidad Politécnica de Valencia, Spain

Claire Brodie, Honours Research Project Student (2015/16), *Synthetic and Structural Studies on Bonding and Repulsion in peri-Supported Phosphine-Stiboranes*

Philip Pickett, Honours Research Project Student (2015/16), *Synthesis and Reactions of Thiol Acenaphthenes*

Sarah Macdonald, Honours Research Project Student (2014/15), *Synthetic Studies on Peri-Substituted Phosphines*

Christina Meigh, Honours Research Project Student (2014/15), *A Synthetic and Spectroscopic Study of Sterically Encumbered Phosphine-Stibines*

Peter Coburger, Overseas MSc Diploma Project (2015), jointly supervised with Prof Evamarie Hay-Hawkins; prior to that Overseas Summer Project (2014), home institution University of Leipzig, Germany

Jan Bergsch, Overseas MSc Inorganic Project (2015), home institution Munich University, Germany

Ines Lindner, Overseas Master Project Student (2014), home institution University of Freiburg, Germany

Mark Carter, Honours research project student (2013-2014), *Synthetic Routes Towards Perbromates*

Dagmar Micikova, IAESTE exchange student (2013)

Brian Surgenor, graduated PhD student (10/2008 - 07/2013), thesis *The Synthesis and Reactivity of a Sterically Unhindered Phosphanylidene-Phosphorane & the Reduction of 1,3,2,4-Dithiadiphosphetane-2,4-Disulfides to Primary and Tertiary Phosphines*, co-supervisor with Prof J. D. Woollins)

Matt Ray, graduated PhD student (02/2010 – 07/2013), thesis *Synthesis and Reactivity of Peri-Substituted Phosphines and Phosponium Cations*

Conor Fleming, graduated PhD student (10/2008 – 03/2013), thesis *Geminally Bis(supermesityl) Substituted Phosphorus Compounds and a Study of 5,6-Substituted Acenaphthenes*

Joanna Prentis, Honours research project student (2012-2013), *Synthetic Studies in Peri-Substituted Acenaphthenes*

Walker Prentke, Honours research project student (2011-2012), *Synthetic Study into Reduction of Dithiadiphosphetane Disulfides*, co-supervisor Prof. M. Bühl

Upulani Somisara, graduated PhD student (1/2007 – 06/2011), *Synthetic Studies into Phosphorus and Arsenic Peri-Substituted Naphthalene*

Kenneth Armstrong, graduated PhD student (10/2007 – 05/2011) *Catalytic Synthesis of Organophosphate Plastics Additives from White Phosphorus*

Michael Gorzkowski, Honours research project student (2010-2011), *Investigations into Novel Fluorenylphosphines and Their Derivatives*

Liam Bisett, Honours research project student (2009-2010), *Novel Synthetic Strategies Towards Tertiary Phosphines*

Amy Looi, Summer Placement and Honours research project student (2009-2010), *Novel Synthetic Strategies Towards Tertiary Phosphines*

Dr. Piotr Wawrzyniak, EPSRC Postdoctoral Fellow (01/2007 – 03/2009), *Synthesis of Phosphorus Centred Radicals*

Karolina Korzycka, IAESTE exchange student (2008)

Jiao Xu, Honours research project student (2007-2008), *Novel Synthetic Strategies Towards Tertiary Phosphines*

David Newton, Honours research project student (2006-2007), *New Synthetic Routes to 1,8-Diphospha Naphthalenes*

Administration (main duties):

Head of Inorganic Section (2017 – now)

Postgraduate Taught (PGT) Coordinator (2014 – now).

Convenor of Postgraduate Studies (2011 – now).

Director for postgraduate teaching and member of Postgraduate Committee (School of Chemistry), 8/2007-now.

School of Chemistry Library Representative, 6/2010-now.

Member of Teaching Committee, Special Circumstances Committee, PG committee, Library Users Group Member and Library Representative, Athena Swan committee, Open Access Steering Group member, Deputy Chemicals Safety Database Administrator (university wide)

Teaching:

Lecturing various aspects of Main Group Chemistry and trends in periodical table.

Tutoring inorganic and general chemistry components for a range of courses.

Honours Inorganic Laboratory course convener and demonstrator.

Academic Monitor for External Placement of Honours student.

External Examiner and Examination Committee Convener/Internal Examiner for the degree of Ph.D.

Supervisor and assessor to Honours Research Projects.