Dr Krzysztof K. K. Koziol *Eng (Chem), MSc (Chem), PhD (Mat Sci), FCPS, FCSAR*

Date of Birth: 30th May 1977

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Academic appointments

From Jan 2011	Pembroke College, University of Cambridge Director of Studies in Natural Sciences Director of Studies in Materials Science
From Jan 2011	Pembroke College, University of Cambridge Elected as Fellow
From Oct 2010	International Society of Nanoscience, Founder and President
From Oct 2008	Department of Materials Science, University of Cambridge, Cambridge, UK Royal Society University Research Fellow
2006 - 2008	Department of Materials Science, University of Cambridge, Cambridge, UK Research Associate: *"High performance carbon nanotube fibres"*

Entrepreneurial activities

From Oct 2014	CAMETICS Cambridge Advanced Metals Ltd, United Kingdom Co-founder and Executive Director (www.cametics.com)
From Jan 2014	GASPLAS AS, Norway Executive Director (www.gasplas.com)
From Jan 2014	EnPlas Ltd, United Kingdom Executive Director
From Aug 2013	Cambridge Solar Nanotechnology Ltd, United Kingdom Co-founder and Executive Director
From Aug 2012	FGV Cambridge Nanosystems Ltd, United Kingdom Co-founder and Executive Director (www.cambridgenanosystems.com)
From April 2012	Energy Fluids Ltd, United Kingdom Co-founder and Director (www.energy-fluids.com)
From Nov 2010	Cambridge Consulting Laboratory Ltd, United Kingdom Founder and Director
From July 2009	Advanced Green Nanotechnologies Sdn. Bhd., Malaysia Co-founder and Director (www.kaitosol.com)

Education

2001-2005	University of Cambridge, Magdalene College, Cambridge, UK Ph.D. studies: *"Carbon nanotube polymer scaffolds"*
1996-2001	Department of Chemistry, Silesian University of Technology, Gliwice, Poland M.Sc. in Chemistry (First Class Honours)
Oct 2000-Sept 2001	Faculty of Engineering, University of Kiel, Kiel, Germany Final year of study for M.Sc. and research for the master thesis
July 2000-Sept 2000	Department of Chemistry, King's College London, London, UK Visiting student on 'IAESTE-ICI' research scholarship
Feb 1999-Aug 1999	Faculty of Medicine, St. George's Hospital Medical School, London, UK Visiting student in Socrates-Erasmus Program
1992-1996	Secondary School, Katowice, Poland Secondary school certificate ('A' level equivalent in Maths, Further Maths, Physics & Chemistry))

Scholarships and Awards

- Royal Society University Research Fellowship awarded in 2008
- Oppenheimer Research Fellowship awarded in 2008
- First prize in the "Science Close-Up" of Daily Telegraph Visions of Science competition in 2004
- Overseas Research Students (ORS) Award in 2001
- University of Kiel visiting student scholarship, Oct 2000-Sept 2001, Kiel, Germany
- The International Association for the Exchange of Students for Technical Experience-Imperial Chemical Industries (IAESTE-ICI) visiting student scholarship, 2000, London, UK
- Socrates-Erasmus visiting student scholarship, 1999, London, UK
- Annual scientific scholarships from Silesian University of Technology in Poland for outstanding studies (1996-2001)
- Runner up of National Level Tournament for Young Physicists of Poland, 1995, Poland
- Distinction for secondary school level research project entitled: *"Influence of nourishment content on the Lactobacillus acidophillus metabolism"* in The Biological Tournament, 1994, Poland

Teaching Experience

2010 – date	Department of Materials Science, University of Cambridge, Cambridge, UK Lecturer for the undergraduate Part III
2010 – date	Department of Materials Science, University of Cambridge, Cambridge, UK Backup Lecturer for the undergraduate Part IA
2009 – 2013	Department of Materials Science, University of Cambridge, Cambridge, UK Lecturer for the Nanomaterials course, MPhil programme
2009 – 2012	Department of Materials Science, University of Cambridge, Cambridge, UK Part II undergraduate supervisor for C14 course on Polymer Processing
2002 – date	Department of Materials Science, University of Cambridge, Cambridge, UK Part III/MPhil/MSc research project supervisor
2003 – 2005	Department of Materials Science, University of Cambridge, Cambridge, UK Demonstrating in the first and second year undergraduate practicals
2000 – 2001	Faculty of Engineering, University of Kiel, Kiel, Germany Supervising and demonstrating part of the international masters program
1996 – 2000	Department of Chemistry, Silesian University of Technology, Gliwice, Poland Supervisions in chemistry, physics and mathematics

Research Experience

Oct 2008 – date	Department of Materials Science, University of Cambridge, Cambridge, UK *"New Generation Conductor"*, Royal Society Research Fellow
May 2008 – Oct 2008	Department of Materials Science, University of Cambridge, Cambridge, UK Formula 1 (Mercedes/McLaren) consultant
Jan 2006 – May 2008	Department of Materials Science, University of Cambridge, Cambridge, UK Post doctoral appointment: *"High performance carbon nanotube fibres"*
Oct 2001 – Dec 2005	Department of Materials Science, University of Cambridge, Cambridge, UK PhD studies: *"Carbon nanotube polymer scaffolds"*
Oct 2000 – Sept 2001	Faculty of Engineering, University of Kiel, Kiel, Germany Master thesis: *"Autodispersion of noble metal nanoclusters into polymers by vapour – induced crystallisation method"*
July 2000 – Sept 2000	Department of Chemistry, King's College London, UK Research projects: "Synthesis of organic compounds for catalytic reactions" *"Organometallic synthesis of 7-Nitro-2-phenyl-4,5-dihydro-3H-benzo[b]azepine"*
Feb 1999 – Aug 1999	Faculty of Medicine, St.George's Hospital Medical School, London, UK Research project: *"Cell membrane transport mechanisms"*

Languages

English (fluent), Polish (as a native language), German, Russian

Interests and activities

- Fellow of the Cambridge Philosophical Society (Since 2002)
- Fellow of the Cambridge Society for the Application of Research (Since 2002)
- Member of the Institute of Materials, Minerals and Mining (Since 2002)
- Member of the Polish Society of Chemistry (Since 1996)
- Member of the Polish Astronomic and Astronautics Society (Since 1993)
- Laser Officer in the Department of Materials Science, University of Cambridge (Since 2010)
- Senior treasurer of the Cambridge CNT Society (2007-2012)
- Co-organizer of the CNT@Cambridge Symposium (2007), (2008), (2009) Cambridge, UK
- Co-organizer of the International Conference on Diffusion in Solids and Liquids (2010), France
- Co-organizer of the International Conference on Diffusion in Solids and Liquids (2011), Portugal

Publications

More than 100 peer reviewed scientific articles, 2 book contributions and 16 patents. H-index: 19

First paper in the area of carbon nanotubes:

"*Polystyrene grafted multi-walled carbon nanotubes*", Chemical Communications 18, 2074 (2002). M. Shaffer, K. Koziol

First paper in the area of graphene:

"*Three-dimensional carbon nanowall structures*", Applied Physics Letters 90, 123107 (2007). A. Chuang, J. Robertson, B. Boskovic, K. Koziol

Research Leadership

Dr Krzysztof Koziol is the Head of Electric Carbon Nanomaterials Group, Director of Advanced Carbon Nanostructures Laboratory and Management Group Member in the Centre for Doctoral Training in Graphene Technology in Cambridge Graphene Centre.
Dr Koziol is also coordinating two large European Research Council funded flagship projects.

Short Bio

Dr Krzysztof Koziol is a scientist, inventor, entrepreneur and mentor. He is currently The Royal Society Research Fellow, Pembroke College Fellow and Oppenheimer Research Fellow, based in the Department of Materials Science and Metallurgy, University of Cambridge, where he is leading Electric Carbon Nanomaterials Research Group. He graduated with a first class honours degree in Chemistry from Silesian University of Technology in Poland in 2001, and subsequently with a PhD in Materials Science from Cambridge University. His areas of expertise are nanotechnology & energy, carbon nanotubes, graphene, synthesis of nanomaterials, design of catalysts for carbon nanotube formation, chirality control of carbon nanotubes, carbon nanotube based fibres and wires. Dr Koziol pioneered controlled synthesis approach to carbon nanotubes and graphene, developed synthetic routes for chirality control of carbon nanotubes, catalyst-free gas phase production of graphene, continuous manufacturing of highly aligned carbon nanotube based electric wires and first ever carbon based electrical machines (including electric motor and electrical transformer).
For more information about the research of Dr Koziol's group, please visit: www.kkoziol.org