

Jeremy J. RAMSDEN – brief Curriculum Vitae

Contact details

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Present posts

(1) Member of the Board of Governors, Integrated Nano Science & Commodity Exchange (INSCX), Barrington House, Alderley Edge, UK (appointed May 2010) (with an executive role as Chief Technical Officer from January 2012).

(2) Honorary Professor of Nanotechnology, University of Buckingham, UK (appointed Sept. 2012).

Education

Undergraduate: Fitzwilliam College, Cambridge University, England. Fields of study: mathematics, physics, chemistry, cell biology, biochemistry. B.A. (1977); M.A. (1981).

Postgraduate: Institute of Chemical Physics, Swiss Federal Institute of Technology, Lausanne (EPFL). Dissertation title: "Electronic properties of small semiconductor aggregates" (thesis advisor: Prof. Michael Grätzel). Dr ès Sc. (1985).

Postdoctoral: Department of Chemistry, Princeton University, USA. Work on infrared and Raman spectroscopy to elucidate the structure and dynamics of haem proteins, and on cellular automata for protein folding (1985–1986).

Previous posts (inverse chronology)

[2002–2012] Chair of Nanotechnology, Cranfield University, UK.

[2003–2009] Research Director for Bionanotechnology, Cranfield University at Kitakyushu, Japan.

[1994–2012] Private (Honorary) Professor for Biophysical Chemistry, University of Basel.

[1994–2002] Head, Lab. for Surface Biochemistry, Biocenter/Dept Chem., University of Basel.

[1993] Visiting Scientist, Laboratory for Chemical Engineering, Swiss Federal Institute of Technology, Zürich (ETHZ).

[1988–92] Researcher (group of Prof. G. Schwarz), Department of Biophysical Chemistry, Biocenter, University of Basel, Switzerland.

[1987] Visiting Scientist, Inst. Biophysics, Biocenter, Hungarian Academy of Sciences, Szeged.

[1977–81] Staff Scientist, Research & Engineering Centre, Ilford Limited, Brentwood, Essex, England (manufacturer of photographic film and paper).

Fellowships (inverse chronology)

[May 1991] Swiss National Science Foundation, to General Physics Institute (FIAN), USSR Academy of Sciences, Moscow.

[March–October 1990] Swiss National Science Foundation, to Frumkin Institute of Electrochemistry, USSR Academy of Sciences, Moscow.

[September 1989] Swiss National Science Foundation, to General Physics Institute (FIAN), USSR Academy of Sciences, Moscow.

[May 1985] Swiss National Science Foundation, to Central Research Institute of Physics (KFKI), Hungarian Academy of Sciences, Budapest.

Miscellaneous

Conference Chairmanships:

2nd International Workshop on Random Sequential Adsorption, Basel (June 1994);
1st International Workshop on Molecular Recognition at Surfaces, Basel (Nov 1995);
2nd International Workshop on Molecular Recognition at Surfaces, Basel (July 1997);
International Conference on Biophysical Chemistry of Interfaces, Basel (Nov 1998);
3rd International Workshop on Molecular Recognition at Surfaces, Basel (Nov 1999);
NATO Advanced Research Workshop "Complexity and Security", Tbilisi (March 2007);
Workshop on Inhalable Toxic Chemicals on Board Aircraft, Cranfield University (October 2011).

Visiting Professorships:

Inst. Matemática, Univ. Nacional del Sur, Bahía Blanca, Argentina (summer semester 1995);
Département de Biologie, Université de Rouen, France (winter semesters 2000/1 & 2001/2) ;
Department of Physics, State University of Tbilisi, Georgia (winter semester 2000/1);
Experimental Medicine Research Institute (KOKI), Hungarian Academy of Sciences, Budapest (winter semester 2001/2);
Department of Environmental Engineering, University of Kitakyushu, Japan (2005/6);
Division of Biosystems, Tokyo Medical and Dental University, Japan (winter term 2008).

Professional and Learned Societies, etc.:

Member, Biophysics Section, Swiss Biochemical Society;
Member, Atelier de réflexion «Génomique cognitive», Genopole, Evry, France;
Member, Mathematical Association of America;
President, Collegium Basilea (Institute of Advanced Study), Basel, Switzerland;
Fellow, Institute of Materials, Minerals and Mining, London, UK;
Academician Secretary, Order of Natural Sciences & Engineering, Euro Mediterranean Academy of Arts & Sciences;
Fellow, Union of Pure & Applied Chemistry (IUPAC).

Learned Journals:

Editor-in-Chief, *Journal of Biological Physics and Chemistry*;
Editor-in-Chief, *Nanotechnology Perceptions: a Review of Ultraprecision Engineering and Nanotechnology*.

Other:

1993–present: Cofounder and Director of the MEMOCS (membrane-coated optical grating coupler sensors for medical applications) European Network of Excellence (received the Eureka Seal of Excellence in 1993);
2008–present: Various rôles in the International Standards Organization (ISO) Technical Committee 229 (Nanotechnologies);
2010–present: member of the Advisory Council of the Shota Rustaveli State University, Batumi, Georgia.

Publications

Over 200 research articles; ca 10 reviews; 5 book chapters (including encyclopaedia articles); 2 patents; 12 books.