

# Curriculum Vitae



<b>Name</b>	<b>Dr Radu RAUTIU</b>
<b>Title</b>	<i>PhD MSc DIC FCMI</i>
<b>Position</b>	<i>Associate Head of Project Management ((flexi-retired)</i>
<b>Organisation</b>	<b>IMPERIAL COLLEGE, Enterprise Division, Research Project Management</b>
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## HIGHER EDUCATION

<b>University or Institution</b>	<b>Degree(s)/ Qualifications</b>	<b>Subject Area</b>	<b>Dates</b>
Chartered Management Institute (UK) & Open University, UK	<b>Diploma in Management Studies – Level 5</b>	<i>Management of operations and processes</i>	2005-2006
Imperial College London, T H Huxley School of Environmental Sciences & Technology, UK	<b>Post-Doc</b>	<i>Best industrial practice in pollution control</i>	1998-2001
Imperial College London, Department of Chemical Engineering and Technology, UK	<b>Post-Doc</b>	<i>Advanced pollution control methods</i>	1995-1998
Imperial College London, Department of Chemical Engineering and Technology, UK	<b>PhD, DIC</b>	<i>Effluent treatment methods</i>	1991-1994
Technical University Timisoara, Romania	<b>BEng MSc</b>	<i>Chemical engineering with environmental science and technology</i>	1982-1987

## PROFESSIONAL QUALIFICATIONS AND MEMBERSHIPS

Fellow of Chartered Management Institute, Chartered Fellow (CMI)	since 2012
Member of European Association of Research Managers & Administrators (EARMA)	since 2007
Member of Chartered Management Institute (CMI)	since 2005
Member Project Management Institute- UK Chapter (PMI-UK)	since 2015
Member International Water Association (formerly IAWPRC)	since 1994
Member Society for Chemical Industry	since 1991

## EMPLOYMENT AND EXPERIENCE

<b>Jan 2020 to present</b>	<b>Associated Head of Project Management- flexi retired</b> , Imperial College London, Enterprise Division, RPM, pre-award coordination of opportunities, advice and input on coordination management of collaborative projects, best practice. Founder and owner of Periodichemicals Ltd.
<b>Aug 2014 to Dec 2019</b>	<b>Head of Project Management</b> , Imperial College London, Enterprise Division, RPM, coordination of the project/programme management activities for collaborative research projects, UK, and EU funding.
<b>2011 to 2014</b>	<b>Head of Project Management</b> , Imperial College London Consultants, dealing with coordination of the project management activities, management and coordination of long-term UK-based, EU & international projects
<b>2001 to 2011</b>	<b>Senior Projects Manager</b> , Imperial College London Consultants, dealing with management and coordination of UK-based, EU and international projects
<b>1997 to 2001</b>	<b>Projects Manager</b> , Imperial College London Consultants, dealing with management of UK-based, EU and international projects
<b>1997- 1998</b>	<b>Post-doctoral Research Associate</b> at Imperial College London, T H Huxley School of Environmental Science and Technology, experience in best industrial practice and policy
<b>1995-1997</b>	<b>Post-doctoral Research Associate</b> at Imperial College London, Dept Chemical Eng. and Chemical Technology, experience in new materials in pollution control technology
<b>1995-1997</b>	<b>Market Research Analyst</b> at Frost & Sullivan, research and writing specialised European chemicalsmarket reports
<b>1990-1991</b>	<b>Senior Environmental Control Officer</b> at the Environmental Pollution Agency, Hunedoara county, Romania
<b>1987-1990</b>	<b>Senior Chemical Engineer</b> at 'Siderurgica' steel company in charge of the water/ wastewater laboratories and CHP unit laboratories

## EXPERTISE

Fellow of CMI (UK), Chartered Manager.

High impact research proposals, consortium management of collaborative research in the areas of:

- Best Practice and Mentoring in Collaborative Management of Research Projects
- Water Quality and Diffuse Pollution
- Novel Materials (Inorganic and Inorganic-Organic Hybrid) and Advanced Technologies
- Public Health, Health and Environment
- Low Carbon Energy , Energy Efficiency Systems, Carbon Capture and Sequestration
- Smart Cities and Sustainable Development
- Environmental Impact Assessment and Stressors
- Technology Transfer with emphasis on Small and Medium Enterprises (SMEs)

Professional expertise in environmental integrated assessment, water quality, diffuse pollution, advanced materials & technologies, environmental policy and pollution control, best industrial practice, electronic databases and information management.

## AWARDS- DISTINCTIONS

- URE award for PhD thesis, Imperial College London, 1995
- Knight (*Officer*) of the (Romanian) Order of Faithful Service, [2004](#)
- Fellow of the Chartered Management Institute, 2012

## PROJECT MANAGEMENT AND PORTFOLIO CO-ORDINATION

- EC Framework research expertise as registered **H2020 EXPERT No. EX2006C113302**.
- EC-H2020 **TEAMING KIOS Centre of Excellence, 2017-2024**, KIOS-CoE between University of Cyprus and Imperial College London, <http://www.kios.ucy.ac.cy/news-a-events/latest-news/315-kios-chosen-by-the-eu-to-become-a-european-centre-of-excellence-for-research-and-innovation.html> - *co-PI and best practice in consortium management, research data management and archiving, training.*
- EC-H2020 **EDEN2020, 2016-2020**, 'Enhanced Delivery Ecosystem for Neurosurgery in 2020', <http://www.eden2020.eu/>
- EC-H2020 **PERFORM, 2016-2021**, 'Personalized Risk Assessment in Febrile Illness to Optimize Real-Life Management across EU in 2020', <http://www.perform2020.eu/>
- EC- H2020 **EAVI2020, 2015-2020**, 'European AIDS Vaccine Initiative in 2020', <http://www.eavi2020.eu/>
- **FSA** – 'Investigation of the Potential Transfer and Uptake of Contaminants into Food Arising From the Use of Recycled Waste in Agriculture'- **FSA102009-B, 2014-2017**, [www.foodagrirecycledwaste.org/about](http://www.foodagrirecycledwaste.org/about) *overall PM and expertise in POPs.*
- EC-DG Research – FP7 for SMEs- '**Up-THERM**'- Innovative High-Efficiency Phase-Change Fluid Based Heat Engine- **2013-2015**, *project manager, overseeing Imperial's input as RTD provider, (8 partners)*, <http://labor1.wix.com/up-therm>
- EC-DG Research – FP7 for Associations of SMEs- '**BioSonic**' –Novel Chemical Process for Conversion of Woody Biomass into Chemical Intermediates'- **2013-2016**, *project manager, overseeing Imperial's input as RTD provider, (9 partners)*, <http://www.biosonic-fp7.eu/>
- EC-DG Research – Public Health Collaborative Project- '**EUCLIDS**- Childhood Life-Threatening Infectious Diseases Study'- **2011-2016** - *Consortium manager, overseeing dissemination and training activities, (16 partners)*, <http://www.euclids-project.eu/>
- EC-DG Research – NMP Collaborative Project- '**MACADEMIA**- MOFs as Catalysts and Adsorbents: Discovery and Engineering of Materials for Industrial Applications'- **2009-2013** - *Project and consortium manager, (21 partners)*, <http://www.macademia-project.eu/>
- EC-DG Research-Specific Targeted Research Project '**Hi-WATE**-Health Impacts of Long-term Exposure to Disinfection By-Products in Drinking Water'- **2006-2010**- *Project and consortium manager, WP leader Disinfection Technology and Best Practice.*
- EC-DG Research-Integrated Project '**INTARESE**-Integrated Assessment of Health Risks from Environmental Stressors in Europe'- **2005-2010**- *Project and consortium manager of a large consortium (34 partners)*, <http://www.intarese.org/>
- EC-DG Environment-Commercial Project 'The Relationship between the EIA and SEA Directives'- **2004-2005**- *PM for ICON*
- EC-DG IST- Specific Targeted Research Project CONTACT-'Contact printing for electronics and opto-electronics'- **2004-2007**- *PM for ICON.*
- UKWIR Project 'Diffuse Pollution and the Water Framework Directive'- **2002-2004**- *PM for ICON.*
- EC DG Research-INCO Project IRCYL 'Investigation of the Risk of Cyanide in Gold Leaching on Health and Environment in Central Europe and Central Asia', **2000-2003**.- *PM for ICON..*
- EC DG Environment- LIFE 3<sup>rd</sup> countries- LICENCE-Local Institutional Capacity Development in Environmental Sensitive areas (LIFETCY/BiH/000041), **2002-2004**, *PM for ICON.*
- EC DG Research, INCO-COPERNICUS, EXPASCAN - Exposure to Arsenic and Cancer Risk in Central and Eastern Europe from Mining, Smelting and Coal-Fired Power Plants , **1999-2001** (*Research on heavy metal emissions from non-ferrous smelting and processing and coal-powered power plants in Central and Eastern Europe*), *PM for ICON, expertise in pollution control and best practice.*
- EC-DG Environment- Study on "SEA and Integration of the Environment into Strategic decision-Making", **2000**, *project coordinator.*
- EC-JRC-Environment Institute, ISPRA "Environmental Impact of EU Policies (Water Framework Directive) on a UK Catchment", **2001-2003**- *PM for ICON.*
- DGXII Project, EUPHEMET - Toward an Integrated EU Policy for Heavy Metals, **1998-2000** (*research and Reports on mercury accumulation in the chlor-alkali industry in Europe and mercury use in informal gold in the Amazonian basin*), EC DG Research Project.
- UKWIR- Diffuse Pollution and the Water Framework Directive impact on UK Water Industry-, **2002-2004**, *PM for ICON.*
- EC-DG Environment- Study on "Pollutants in Urban Waste Water and Sewage Sludge"- **2000-2001**.- *project overall co-ordinator and manager.*
- Lead Industry Factbook- project commissioned by EUROMÉTAUX, Brussels, **1999-2000**, *expertise in lead environmental exposure, co-author.*





**SELECTED PUBLICATIONS**

- **Rautiu, R (2021)** COVID-19 and High Education & Research (HER) Sector in 2020-Celebrating Success, NCURA Magazine, 53(2), pp.33-35
- Rigby H.L; Acker S.; Dowding A.; Fernandes A.; Humphries D; Petch RG; **Rautiu R**; Reynolds CK; Rose M; Smith SR; **(2015)**, The physico-chemical properties and concentrations of organic contaminants in waste materials recycled in agriculture, Tinos2015 3rd International Conference on Sustainable Solid Waste Management.
- Rigby H.L.; Acker S; Dowding A; Fernandes A; Humphries D; Petch S; **Rautiu R**; Reynolds CK; Rose M; Smith SR; **(2015)**, Investigation of the Potential Transfer and Uptake of Contaminants into Food Arising from the use of Biosolids and other Recycled Wastes in Agriculture, SludgeTech
- Rose, M.; Rigby, H.; Acker, S.; Dowding, A.; Fernandes, A.; Humphries, D.; Petch, S.; **Rautiu, R.**; Reynolds, C. K.; Smith, S. R. **(2015)**, Transfer and uptake of contaminants arising from the use of recycled materials in food production, *Organohalogen Compounds*, vol.77, pp.191-193, <http://www.dioxin20xx.org/pdfs/2015/15-52.pdf>
- **Rautiu, R**; Jumel, K; Acker, S **(2011)**, Best Practice in Consortium Management and Non-RTD Activities for Health & Environment FP6/FP7 Projects: Lessons Learned, in *Proceedings International Conference- Innovative Aspects in the Legislation of Public Procurement, Consequences on Accessing and Managing Structural Funds*, 24-27 Nov 2011, Sovata, Romania. ISBN 978-973-127-713-4
- Smith, S R; Alcock, R E; Sweetman, A; **Rautiu, R**; et.al.**(2009)**, Organic Contaminants in Sewage Sludge (Biosolids) and their Significance for Agricultural Recycling, *Philosophical transactions. Series A, Mathematical, physical, and engineering sciences*, 367(1904) 4005-41
- Nieuwenhuijsen, MJ; Smith, R; Golfinopoulos, S; Best, N; Bennett, J; Aggazzotti, G; Righi, E; Bucchini, L; Cordier, S; Villanueva, CM; Moreno, V; Bosetti, C; Vartiainen, T; **Rautiu, R, et al. (2009)**, Health Impacts of Long-Term Exposure to Disinfection By-Products in Drinking Water in Europe: HIWATE, *J. Water Health*, 7(2), pp.185-207.
- Cordos, E; Roman, C; Ponta, M; Frentiu, T; **Rautiu, R (2007)**, Evaluation of Soil Pollution with Copper, Lead, Zinc and Cadmium in the Mining Area Baia Mare, *Rev.Chim (Bucuresti)*, 58(5), 470-474.
- Rule, KL; Comber, SDW; Ross, D; Thornton, A; Makropoulos, CK; **Rautiu, R (2006)**, Survey of priority substances entering thirty English wastewater treatment works, *Water and Environment Journal*, 20 (3), 177
- Rule, KL, Comber, SDW, Ross, D; Thornton, A; **Rautiu, R**, Makropoulos, C, Ross, D, Thornton, A **(2006)**, Sources of priority substances entering an urban wastewater catchment – trace organic chemicals, *Chemosphere*, 63(4), 581-591.
- Rule, KL, Comber, SDW, Ross, D, Thornton, A, **Rautiu, R** and Makropoulos, C.K. **(2006)**, Diffuse sources of heavy metals entering an urban wastewater catchment, *Chemosphere*, 63(1), 64-72.
- Pesch, B; Vogt, A; Ozunu, A; Tabyshaliev, A; **Rautiu, R (2005)**, Chapter 6 ‘Medical and Organisational Disaster Management in Kyrgyzstan and Romania – Current Situation and Best Practice Recommendations’ in *Gold Extraction in Central and Eastern Europe (CEE) and the Commonwealth of Independent States (CIS)- Health and Environmental Risks*, Ranft U ; Pesch, B; Vogt A (Eds), Jagellonian University Press, 135-166.
- Drinkwater, M; Nieuwenhuijsen, MJ; **Rautiu, R**; Vogt, A; Ozunu, A, **(2005)**, Chapter 7 ‘Health Risk Communication in emergencies: A Qualitative Evaluation of the Baia Mare Cyanide Accident’ in *Gold Extraction in Central and Eastern Europe (CEE) and the Commonwealth of Independent States (CIS)- Health and Environmental Risks*, Ranft U ; Pesch, B; Vogt A (Eds), Jagellonian University Press, 167-180.
- Hilson, GM; Monhemius, AJ; **Rautiu, R (2005)**, Chapter 8 ‘Alternative Leach reagents in Gold Processing- A Review of Substitutes for Cyanide’ in *Gold Extraction in Central and Eastern Europe (CEE) and the Commonwealth of Independent States (CIS)- Health and Environmental Risks*, Ranft U ; Pesch, B; Vogt A (Eds), Jagellonian University Press, 181-206.
- **Rautiu, R**; Hilson, GM; White, DA; Pavel, M et al **(2005)**, Chapter 9 ‘A Recommended Strategy for Detoxifying Cyanide-Contaminated Media’, in *Gold Extraction in Central and Eastern Europe (CEE) and the Commonwealth of Independent States (CIS)- Health and Environmental Risks*, Ranft U ; Pesch, B; Vogt A (Eds), Jagellonian University Press, 207-233.
- Cordos E, **Rautiu R**, Roman C, Ponta M, Frentiu T, Sarkany A, Fodorpataki L, Macalik K, McCormick C, Weiss D **(2003)**, Characterization of the rivers system in the mining and industrial area of Baia Mare, Romania, *European Journal of Mineral Processing and Environmental Protection*, vol 3, no 3, 324-335. [http://www.eimpep.com/cordos\\_et.al.htm](http://www.eimpep.com/cordos_et.al.htm)
- Ulrich Ranft, Peter Miskovic, Beate Pesch, Pavel Jakubis, Elenora Fabianova, Tom Keegan, Andre Hergemöller, Marian Jakubis, Mark J. Nieuwenhuijsen, V. Bencko, R. Colvile, **R. Rautiu**, E. Cordos, M. Farago, P. Frank, M. Götzl, J. Grellier, B. Hong, J. Rames, E. Stevens, I. Thornton, K. Unfried, and J. Zvarova, **(2003)**, Association between Arsenic Exposure from a Coal-Burning Power Plant and Urinary Arsenic Concentrations in Prievidza District, Slovakia, *Environmental Health Perspectives*, vol 111, no 7, 889-894.
- **Rautiu, R et al. (2003)**, The Risk of Cyanide in Gold Leaching on Health & Environment, *European Epi marker*, vol 7, no.3, July 2003, 1-7.
- Keegan T, Thornton, I, Farago, M, Jakubis, P, Pesch, B, Ranft, U, Nieuwenhuijsen, M, **Rautiu, R**, Bencko, V, Colvile, R, Cordos, E, Docx, P, Fabianova, E, Farago, M, et al, **(2002)**, Assessment of environmental arsenic levels in Prievidza district, *Journal of Exposure Analysis and Environmental Epidemiology*, vol 12, no. 3, 179-185.
- Pesch, B, Ranft, U Jakubis, P, Nieuwenhuijsen, MJ, **Rautiu, R**, Hergemöller, A, Unfried, K, Jakubis, M, Miskovic, P, Keegan, T **(2002)** Environmental Arsenic Exposure from a Coal-burning Power Plant as a Potential Risk Factor for Nonmelanoma Skin Carcinoma: Results from a Case-Control Study in the District of Prievidza, Slovakia, *American Journal of Epidemiology*, 155(9):798-809.
- **Rautiu, R et al. (2002)**, L’impact de la pollution du bassin Somes-Tisa-Danube par des boues toxiques de Baia Mare Roumanie, Cedre, L’Institut Océanographique Paris Octobre 2002.
- **Rautiu, R et al. (2002)**, Baia Mare & Baia Borsa accidents, the aftermath (Cyanide and heavy metals pollution and environmental impact on catchments), in ‘Environmental Impacts of Mine and Quarry Waste: the Burden from the Past’, Eds. Puura, E, Marmo, L, D’Alessandro, M., EC-JRC Joint workshop, Orta May 2002.
- Cordos E. , **Rautiu R**, Roman C., Ponta, M. **(2002)**, Synopsis of the environmental impact of a complex cyanide disaster in Romania 2000, *Epidemiology*, 13(4), 90, July 2002.
- Thornton, I.; **Rautiu R**; Brush, S.**(2001)** Lead The Facts, ICON-Eurométaux publication.

**PUBLICATIONS (continued)**

- Thornton, I (scientific co-ordinator), Butler, D; Docx, P; Hession, M; Makropoulos, C.; McMullen, M; Nieuwenhuijsen, M; Pittman, A; **Rautiu, R**; Sawyer, R; Smith, S; White, DA; Wilderer, P; Paris, S; Marani, D; Braguglia, C; Palerm, J. (2001), Pollutants in Urban Wastewater and Sewage Sludge, Report for DG Environment prepared by **IC Consultants Ltd** [http://www.eu.int/comm/environment/sludge/sludge\\_pollutants.htm](http://www.eu.int/comm/environment/sludge/sludge_pollutants.htm)
- Cordos E. , **Rautiu R**, Roman C. , Bodea O, Frentiu T. (2001), Arsenic and heavy metal exposure in Romania, *Epidemiology*, 12(4), 50, July 2001 [13th Conference of the International Society for Environmental Epidemiology (ISEE), September 2-5, 2001, Garmisch-Partenkirchen, Germany]
- Cordos E, **Rautiu R**, Gherhes I, Bolchis R, Roman C, Bodea O, (2001), From local disaster to complex disaster with transboundary implications: the cyanide spill from Baia Mare, Romania, *Epidemiology*, 12(4), 308, July 2001 [13th Conference of the International Society for Environmental Epidemiology (ISEE), September 2-5, 2001, Garmisch-Partenkirchen, Germany]
- Du Prel, J.B., Pesch, B., Ranft, U., **Rautiu R**, Troitsky, V.(2001)- Investigation of the Risk of Cyanide in Gold Leaching on Health and Environment in Central Asia and Central Europe, IRCYL- WHO Collaborating Centre for Air Quality Management and Air Pollution Control, Bonn, Newsletterno.27, 7-14.
- Scoullou, M., Vonkeman, G., Thornton, I., Makuch, Z., Arsenikos, S., Constantianos, V., Docx, P., Karavoltzos, S., MacDonald, K., Mantzara, B., Maxson, P., **Rautiu, R.**, Roniotes, S., Sakellari, A. and Zeri, C. (2000): EUPHEMET - Towards an integrated EU policy for heavy metals. For the European Commission DG12 - Research Directorate-General, Brussels.
- Wilbuswas, R.; White, D. A; **Rautiu R** (1999), "Adsorption of Phenolic Compounds from Water by Surfactant-Modified Pillared Clays", *Process Safety and Environmental Protection-Trans. IChemE.*, vol.77, Part B, 88-92
- White, D. A. , Nattkemper, A. and **Rautiu R**. (1999), "Evaluation of the Effect of Temperature on Potassium Clinoptilolite Ion Exchange", *Nuclear Technology.*, vol 127, 212-217
- Wilbuswas, R. , White, D.A. ; **Rautiu R** (1998), "Removal of Humic Substances by Aluminium-based Pillared Clays", *Environmental Technology* , 1998, 19(6), 627-632.
- White, D.A. and **Rautiu R** (1997), "The Sorption of Anionic Species on Hydrous Tin Dioxides"- *The Chemical Engineering Journal* , 66(2), 85-89.
- **Rautiu R**. and White, D.A. (1996), "The Sorption of Cationic Species on Hydrous Tin Dioxide"- *Solvent Extraction and Ion Exchange* , 14(4), 721-738 .
- Adeleye,S.A.; **Rautiu R**. ; White, D.A.: Clay, P. (1995), "Clay Minerals as Sorbents for Nuclear Reactor Activation Products"- *Journal for Materials Science* , 30(3), 583-586
- **Rautiu R**. ; White, D.A.; Adeleye, S.A.; Adkins.L.- (1994) "The Use of Zeta Potential Measurements in Inorganic Ion Exchange Studies"- *Hydrometallurgy*, (35), 361-374
- **Rautiu R**; Gunning, A. (1995), "European Market for Bulk Inorganic Acids"- *Market Analysis Report*, Frost and Sullivan, London.
- **Rautiu R**. ; Gunning, A. (1996), "European Market for Bulk Inorganic Alkalis"- *Market Analysis Report*, Frost and Sullivan, London.
- **Rautiu R**. ; Gunning, A. (1997), "European Market for Industrial Inorganic Gases"- *Market Analysis Report*, Frost and Sullivan, London.
- **Rautiu R**. ; Gunning, A. (1997), "European Market for CFCs and CFC Replacements"- *Market Analysis Report* , Frost and Sullivan, London.
- **Rautiu R**. (1989), "Technology for Recovery of Gallium and Indium from Silico-Ferrous Wastes and Mixed coagulants production processes"- *Romanian Patent*, RO 107131 B1/1989.

**ONLINE PROFESSIONAL MEDIA PLATFORMS**

	<a href="https://uk.linkedin.com/in/dr-radurautiu-fcmi-7540846">https://uk.linkedin.com/in/dr-radurautiu-fcmi-7540846</a>
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	<a href="https://www.researchgate.net/profile/Radu_Rautiu">https://www.researchgate.net/profile/Radu_Rautiu</a>
	<a href="https://radurautiu.academia.edu/">https://radurautiu.academia.edu/</a>

**LANGUAGE PROFICIENCY**

- English, *bilingual, full-working command*
- Romanian, *native tongue*
- French, *advanced*
- Italian, *intermediate*
- German, *basic.*