

# Karen Louise Scrivener

21st August 1958  
Married, Two children  
British nationality, Swiss resident (Permit C)



## Education:

- 76- 79 Clare College, Cambridge, Natural Sciences Tripos  
BA Hons Class 2.I (major, Metallurgy and Materials Science)
- 79-80 University of Pennsylvania, USA , funded by Thouron Award Studied in Master of Engineering, Met & Mat Sci Program
- 80-84 Imperial College, London, PhD:  
"The development of microstructure during the hydration of Portland cement"  
Awarded Armstrong Medal and Prize 1985  
(annual prizes of Imperial College for best work of industrial relevance)

## Appointments:

- 2001- Professor (ordinaire)  
Director of Laboratory of Construction Materials,  
Ecole Polytechnique Federale de Lausanne, Switzerland
- 95 - 01 Senior Scientist and Head of Calcium Aluminates Department, Lafarge, Central Research Laboratory, France  
Responsible for research team of 10 people, budget 2 M€;  
Negotiation of research programmes  
Expertise on Concrete Durability.
- 91 - 95 Lecturer, Department of Materials, Imperial College  
Head of research group on cement and concrete
- 86 - 91 Warren Research Fellow of the Royal Society, Imperial College  
independent research on characterisation and quantification of cement microstructures by electron beam techniques"
- 83-86 Postdoctoral Research Assistant, Imperial College.,

## Prizes, Membership of professional bodies, learned societies, prizes, etc.:

- Klaus Dyckerhoff Prize 2007 for outstanding lifetime contribution to the field of cement and concrete research,
- Fellow of RILEM 2006 (International Union of Laboratories and Experts for Construction Materials, Structures and Systems)
- Editor in Chief of Cement and Concrete Research since 2005
- Co-ordinator of Nanocem research network a European industrial academic partnership for fundamental research on cementitious materials, with 30 partners, since 2001
- Leslie Holiday prize of the Institute of Materials 1991
- Awarded Armstrong Medal and Prize, Imperial College 1985
- Chartered Engineer, Member Institute of Materials (since 1988)
- Member American Concrete Institute

## Conference organisation (all as main organiser except where stated)

- 2008 Calcium Aluminate Cement: the centenary conference, Avignon (210 participants)
- 2006 Advances in cement and Concrete X: Sustainability of cementitious Materials, Engineering Conferences International, (~100 participants) Davos, Switzerland  
Co-chair Performance based indicators for Concrete Durability, (~100 participants) Madrid, Spain
- 2005 Cementitious Materials as Model Porous Media: Nanostructure and Transport Processes, (~80 participants) Monte Verita, Switzerland
- 2004 Conference to Celebrate the Contribution of Hal Taylor to Cement and Concrete Science, Diableret, Switzerland (~80 participants)
- 2003 Nanoscience of cementitious Materials, symposium within EUROMAT, Lausanne
- 2003 Co-chair, "Advances in Cement and Concrete IX: Volume Changes, Cracking, and Durability", United Engineering Foundation Conferences, Copper Mountain, Colorado, USA
- 2002 Delayed Ettringite Formation workshop (40 participants) Villars, Switzerland
- 2001 Microstructure and micro-macro modelling of concrete and cementitious composites, seminar (110 participants), Lausanne
- 1995 Mechanisms of Deterioration of Cementitious Materials, Materials Research Society Symposium (80 Participants), Boston, USA
- 1991 - Co-chair "Advances in Cement and Concrete", , United Engineering Foundation Conference, Potosi, USA,

## Invited Keynote Conference presentations (last 2 years)

- 2008
- 100 Years of Calcium Aluminate Cements: Calcium Aluminate Cement: the centenary conference, Avignon, June 30-July 2 2008
  - Cement and Concrete Advances: The arrival of Nano-technologies: Cemtech London: 28th September - 1st October 2008
  - The Importance of Microstructural Understanding for Durable and Sustainable Concrete: First International Conference on Microstructure Related Durability of Cementitious Composites, 13-15 October 2008, Nanjing, China
  - The Importance of Microstructural Understanding for Durable and Sustainable Concrete: 2nd International Conference on Concrete Repair, Rehabilitation and Retrofitting, Cape Town, South Africa, 24 - 26 November 2008
- 2007
- Challenges for Basic Research on Cementitious Materials: 27th Cement and Concrete Science, Royal Holloway College, 17, September UK
  - Biogenic corrosion in Sewers: Performance of Cement-Based Materials in Aggressive Aqueous Environments, Ghent Belgium 3 September 2007
  - Innovation in Use and Research on Cementitious Material, 12th ICCM, Montreal, 9-12 July
  - Modelling Cement Microstructure: Modelling of Heterogeneous Materials. 27-28 June, Prague
  - Application of Nanotechnology on the Sustainability of Cement and Concrete
  - TCMB 3rd International Symposium, Sustainability in Cement and Concrete, Istanbul 21-23 May