Curriculum vitae of Roland Keunings (September 2018)

Personal data
- Born June 27, 1957. Married, three children, three grandchildren.
- E-mail: roland.keunings@uclouvain.be
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Current position
- Full Professor (since 1996), Louvain School of Engineering, ICTEAM Institute, Université catholique de Louvain (UCL), Belgium.

Education
- Ph.D. in Engineering Science, UCL (1982).
- Master’s degree in Mathematical Engineering, UCL (1979), with the highest distinction.

Previous positions
- Invited Professor, K.U. Leuven, Belgium (2001-12).
- Invited Professor, Ecole Centrale de Nantes, France (2010).
- Invited Professor, Ecole Supérieure de Plasturgie, Oyonnax, France (1992-97).
- Lecturer, Division of Applied Mechanics, UCL (1988-95).
- Divisional Fellow, Center for Advanced Materials, Lawrence Berkeley Laboratory, University of California, Berkeley, USA (1985-88).
- Research Fellow, Miller Institute for Basic Research in Science, University of California, Berkeley, USA (1983-84).
- Research Assistant, Division of Applied Mechanics, UCL (1979-83).

Teaching
- Bachelor level: mathematics, mechanics, numerical analysis, multidisciplinary project.
- Master level: mathematical modelling in the physical sciences, rheology of complex fluids, numerical simulation in polymer processing, mechanics of composite materials, elasticity theory, theory of plates and shells, finite element methods, parallel scientific computing, computer aided design in mechanical engineering, projects of mechanical design.

**Research**
- Author of 2 books and 165 research publications.
- Bibliometry (Google Scholar, August 2018): 6029 citations, h-index = 44.
- Conference presentations: 29 plenary and keynote lectures, 48 invited lectures, and 177 communications.
- Invited seminars in 49 research institutions.
- For more information (downloadable publications, list of publications and conferences), see [http://perso.uclouvain.be/roland.keunings/](http://perso.uclouvain.be/roland.keunings/)

**Service to UCL and the Académie universitaire Louvain (AuL)**
- As UCL’s Proctor for Research (2004-09):
  - Research Council, Chair,
  - Patents Management Committee, Chair,
  - Scientific Park Committee, Chair,
  - AuL’s Doctoral Studies Committee, Chair,
  - AuL’s Research Councils Platform, Chair,
  - AuL’s « Plan Marshall Wallon » Committee, Chair,
  - Rectoral Council, Member,
  - Academic Council, Member,
  - Board of Directors, Member,
  - Investment Committee, Member,
  - Technology Transfer Committee, Member,
  - External Resources Management Committee, Member,
  - Board of Directors of the Cyclotron Research Center, Member,
  - Board of Directors of SOPARTEC, UCL’s Technology Transfer Office, Member.
- Engineering Doctoral Studies Committee, Chair (2000-04).
- CESAME Research Center, Chair (2000-02).
- Division of Applied Mechanics, Head (1993-96).
- UCL’s Computing Services Advisory Committee, Member (1989-95).

**Service outside UCL**
- Successively: Member of the Editorial Board (1998-99), Associate Editor (2000-03), Co-Editor (2004-09), and Editor-in-Chief (2010-12) of the Journal of Non-Newtonian Fluid Mechanics, the premier scientific journal in the field. Member of the Editorial Board (2013-).
- As UCL’s Proctor for Research (2004-09):
- Inter-university Coordination Committee « Plan Marshall Wallon » in charge of the development of the Region’s Competitivy Clusters, Chair,
- Board of Directors of the Fonds National de la Recherche Scientifique (FNRS), Member,
- FNRS Doctoral Schools Committee, Member,
- Board of Directors of the CERTECH Research Center, Member,
- Board of Directors of the CETIC Research Center, Member,
- Board of Directors of the BIOWIN Competitivy Cluster, Member,
- Comité de pilotage des Pôles d’Attraction Interuniversitaires de la Politique Scientifique Fédérale, Member,
- Scientific Committee of the Société de Développement pour la Région de Bruxelles-Capitale (SDRB), Member.
- Editorial Board of Rheologica Acta, Member (2001-14).
- Evaluation of about 15 research proposals submitted to various Funding Agencies: National Science Foundation (USA), Natural Sciences and Engineering Research Council of Canada, Danish Technical Research Council, Swedish Research Council.
- Chair or Co-Chair of about 20 international conferences.
- Member of the Ad hoc Committee of the CNRS (France) in charge of the evaluation of the Laboratoire de Rhéologie, Université de Grenoble (2005).
- Belgian Delegate to the European Society of Rheology (2000-04), and to the Union of Theoretical and Applied Mechanics (1996-2004).
- Member of the Ad hoc Committee of the Danish Technical Research Council in charge of the evaluation of the Danish Polymer Centre (2002).
- Member of the Ad hoc Committee of the Natural Sciences and Engineering Research Council of Canada, in charge of the evaluation of several research proposals from the Université Laval, Québec (1986-91).
- Delegate of the Center for Advanced Materials to the Computing Services Advisory Committee, Lawrence Berkeley Laboratory, Berkeley, USA (1985-87).
- Member of the Panel on Computer-Assisted Process and Control Engineering, National Research Council of the US Academy of Sciences, whose mission was to identify future directions in the field (1985).

Awards and honours
- Doctor Honoris Causa of the Ecole Centrale de Nantes, France (2013).
- Elected Member of the Royal Academy of Belgium (2009).
- The Weissenberg Award of the European Society of Rheology (2005), “in recognition of his outstanding contributions to the Science of Rheology”. This award is granted by the ESR every 2 or 3 years since 1998.
- Exxon Chemical Science and Engineering Award (1992), for his work between 1978 and 1992 on the modelling and numerical simulation of polymer flow.
- Research Fellowship of the Miller Institute for Basic Research in Science, University of California, Berkeley, USA (1983), for his Ph.D. thesis on viscoelastic flow simulation.
Among the 28 plenary and keynote lectures delivered by R. Keunings, particularly notable is his Plenary Lecture “A Survey of Computational Rheology” delivered at the Opening Session of the XIIIth International Congress on Rheology, Cambridge, UK (2000). The ICR is the main international conference on rheology, held every 4 years.