

Curriculum Vitae



Dmitry V. Strunin

Countries of citizenship: Australia, Russia

Education:

4/1989 PhD in Physical and Mathematical Sciences
Russian Academy of Science, Institute of Oceanology

5/1983 Bachelor of Engineering and Physics
Moscow Institute of Physics and Technology

Employment:

1/2009-present Associate Professor
Dept. of Mathematics and Computing
University of Southern Queensland (USQ)
Toowoomba, Australia

1/2007-12/2008 Senior Lecturer
Dept. of Mathematics and Computing, USQ

- 3/2004-12/2006 Lecturer
Dept. of Mathematics and Computing, USQ
- 3/2002-2/2004 Associate Lecturer
Dept. of Mathematics and Computing, USQ
- 4/1999-2/2002 Research Associate
Dept. of Mathematics and Computing, USQ
- 5/1997-4/1999 Research Associate
Dept. of Mathematics, University of Wollongong
- 7/1996-12/1996 Postdoctoral Fellow
Dept. of Civil and Environmental Engineering
University of Melbourne, Australia
- 1/1996-4/1997 Research Associate
Dept. of Mathematics, Monash University
Clayton, Australia
- 3/1989-10/1995 Senior Researcher
Institute of Structural Macrokinetics
and Materials Science, Russian Academy of Science
Chernogolovka, Moscow Region
- 12/1985-12/1988 PhD student
Institute of Oceanology
Russian Academy of Science
- 8/1983-11/1985 Researcher
Institute of Geochemistry and Analytical
Chemistry, Russian Academy of Science, Moscow

Research interests:

Nonlinear dynamics, active systems, attracting regimes in dissipative systems, similarity, reaction fronts, fluid mechanics, turbulence.

Professional activities:

Awards and grants:

- 2010 A\$ 5,000 “Building Research Momentum” grant [competitive] from the DVC’s research funds, USQ (with T. Langlands, Y. Stepanyants)
- 2009-2011 A\$ 315,000 3-year Discovery Project grant [competitive] “Effective and accurate model dynamics, deterministic and stochastic, across multiple space and time scales” from the Australian Research Council (ARC) (with A.J. Roberts)
- 2006 A\$ 4,657 grant from the Faculty of Sciences, USQ to improve student retention and performance
- 2005-2007 A\$ 118,000 3-year Discovery Project grant [competitive] “Systematically model the large-scale complexity of turbulent floods and thin film flows” from the Australian Research Council (ARC) (with A.J. Roberts)
- 2005 A\$ 10,000 grant from the USQ research funds (with A.J. Roberts)
- 2000 computational time allocation from the Australian Partnership for Advanced Computing (APAC) under the Merit Allocation Scheme
- 1998-1999 A\$ 5,000 conference travel grant from the Research Centre for Industrial and Applied Mathematics, University of Wollongong
- 1998 A\$ 7,500 Small ARC grant proposal [competitive] officially assessed as deserving the grant (not awarded as my position of a research associate was later determined ineligible to have own grant)

- 1993 US\$ 500 grant from the Soros Foundation, USA, under the Individual Research Grants Program
- 1992 US\$ 200 prize and Award [competitive] from the Greve Foundation Inc., USA, for best scientific work performed by young scientist in the field of combustion synthesis
- 1982 First Level Award [competitive] of Moscow Institute of Physics and Technology student competition

Reviewer for international refereed journals:

Computers and Mathematics with Applications [Elsevier], Foundations of Physics [Springer], IMA Journal of Applied Mathematics [Oxford Uni Press], Discrete and Continuous Dynamical Systems [American Inst. of Mathematical Sciences], European Journal of Mechanics-B/Fluids [Elsevier], Open Applied Mathematics Journal, Meccanica [Springer]

Reviewer for international conference proceedings:

International Conference on Mathematics and Computational Methods Applied to Nuclear Science and Engineering M&C-2011, Rio de Janeiro, Brazil; 29th IASTED International Conference Modelling, Identification and Control MIC-2010, Innsbruck, Austria; 14th Computational Techniques and Applications Conference, CTAC-2008, Canberra, Australia; 10th CTAC-2001, Brisbane, Australia; 5th Engineering Mathematics and Applications Conference, EMAC-2002, Brisbane, Australia; Int. Conference on Computational Science and Applications, ICCSA-2003, Montreal, Canada; 5th Int. Conference on Dynamical Systems and Differential Equations, 2004, Pomona, CA, USA

Chairman:

2nd WSEAS International Conference on Applied and Theoretical Mathematics, 2001, Cairns, Australia; Session Chairman: 29th IASTED International Conference Modelling, Identification and Control MIC-2010, Innsbruck, Austria; 14th CTAC-2008, Canberra, Australia; 6th International

AIMS Conference "Dynamical Systems, Differential Equations and Applications", 2006, Poitiers, France; 10th CTAC-2001, Brisbane, Australia; 16th Australasian Fluid Mechanics Conference, Gold Coast, Australia

Member of International Technical Program Committee:

International Conference on Mathematics and Computational Methods Applied to Nuclear Science and Engineering M&C-2011, Rio de Janeiro, Brazil

Associate Editor:

2003-2006 ANZIAM Journal (Electronic Supplement)

Invitations:

Invited Guest Scientist at the Max Planck Institute for the Physics of Complex Systems, December 2011, Dresden, Germany (invitation received, visit to occur)

Invited paper: International Conference on Combustion and Detonation, Zel'dovich Memorial, 2004, Moscow, Russia

Invited Speaker: 2nd WSEAS International Conference on Applied and Theoretical Mathematics, 2001, Cairns, Australia

Invitations as Invited Speaker received from (not attended): 3rd Mathematics and Computers in Mechanical Engineering Conference MCME-2001, Crete, Greece; 3rd International Conference of Applied Mathematics, Plovdiv, Bulgaria, 2006; Minisymposium on Frontal Phenomena, 9th US National Congress on Computational Mechanics, San Francisco, US, 2007

Australian Reader:

2010 Assessment of Discovery Australian Research Council grant applications

Editorial Board Member:

International Journal of Applied Mathematical Analysis and Applications

Member of societies:

Australian Mathematical Society (AMS)

Australian and New Zealand Industrial and Applied Mathematics (ANZIAM)

Member of Executive Committee:

2009-present Computational Engineering and Science Research Centre, USQ

Conference presenter:

- 2011 6th AIAA Theoretical Fluid Mechanics Conference, Honolulu, US; International Conference on Mathematics and Computational Methods Applied to Nuclear Science and Engineering M&C-2011, Rio de Janeiro, Brazil
- 2010 6th International Conference “Dynamical Systems and Applications-2010”, Antalya, Turkey; Emerging Topics in Dynamical Systems and Partial Differential Equations, Barcelona, Spain (poster); 8th AIMS Conference on Dynamical Systems, Differential Equations and Applications, Dresden, Germany; 29th IASTED International Conference “Modelling, Identification and Control MIC-2010”, Innsbruck, Austria
- 2009 5th Asian Mathematical Conference AMC-2009, Kuala-Lumpur, Malaysia; The World Congress on Engineering 2009 and International Conference of Applied and Engineering Mathematics, London, UK
- 2008 14th Computational Techniques and Applications Conference, Canberra, Australia; biological conference, Gold Coast, Australia (poster presented by B. Essien)
- 2007 16th Australasian Fluid Mechanics Conference, Gold Coast, Australia; International Conference “Dynamics in Perturbations”, Hasselt, Belgium
- 2006 6th International AIMS Conference “Dynamical Systems, Differential Equations and Applications”, Poitiers, France
- 2005 2nd International Conference on Scientific Computing and Partial Differential Equations and 1st East Asia SIAM Symposium, Hong Kong

- 2004 International Conference on Combustion and Detonation, Zel'dovich Memorial, Moscow, Russia
- 2003 5th International Congress on Industrial and Applied Mathematics, Sydney, Australia
- 2002 5th Engineering Mathematics and Applications Conference, Brisbane, Australia; 5th International School/Conference "Let's Face Chaos Through Nonlinear Dynamics", Maribor, Slovenia
- 2001 2nd WSEAS International Conference on Applied and Theoretical Mathematics, Cairns, Australia; 10th Computational Techniques and Applications Conference CTAC-2001, Brisbane, Australia
- 2000 1st WSEAS International Conference on Applied and Theoretical Mathematics, Athens, Greece; International Conference on Computational Physics CCP-2000, Gold Coast, Australia; 36th ANZIAM Applied Mathematics Conference, Waitangi, Bay of Islands, New Zealand
- 1999 13th ASCE Engineering Mechanics Conference, Baltimore, US; 35th ANZIAM Applied Mathematics Conference, Mollymook, Australia
- 1998 International Conference on Hydraulics in Civil Engineering HydraStorm-98, Adelaide, Australia
- 1996 Western Pacific Geophysics Meeting, Brisbane, Australia (poster);
- 1994 Zel'dovich Memorial, International Conference on Combustion, Moscow, Russia (poster);
- 1993 2nd International Symposium on Self-propagating High-temperature Synthesis, Honolulu, US (joint paper presented by E.N. Rumanov); Russian-Japanese Seminar on Combustion, Chernogolovka, Moscow Region, Russia (poster); International Conference on Combustion, Moscow-St.Petersburg, Russia (poster)
- 1992 4th International Seminar on Flame Structure, Novosibirsk, Russia (poster)

- 1991 International School-Seminar on Rheophysics
and Thermophysics, Minsk, Belorussia (poster);
1st International Symposium on Self-propagating
High-temperature Synthesis, Alma-Ata, Kazakhstan (poster)
- 1987 International Conference on Diffusion
of Contaminants in the Ocean, Sopot, Poland

List of Publications is a separate document

Teaching and Supervision record is a separate document