

Prof Dimitris Drikakis, MEng, PhD, FRAeS, CEng

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PROFESSIONAL EXPERIENCE*		
07/2017 -	<ul style="list-style-type: none"> Executive Director, Global University Partnerships (US & Far East) Executive Director, Strathclyde Space Institute Co-Director of a new Institute of Autonomous Systems and Robotics 	University of Strathclyde, Glasgow, UK
07/2015 - 06/2017	<ul style="list-style-type: none"> Executive Dean of the Faculty of Engineering 	
07/2016 - 06/2017	<ul style="list-style-type: none"> Associate Principal 	
07/2015 -	<ul style="list-style-type: none"> Professor of Engineering Science 	
2013 - 2015	<ul style="list-style-type: none"> Head, Institute of Aerospace Sciences¹ 	Cranfield University, UK
2014 - 2015	<ul style="list-style-type: none"> Director of Research (School of Aerospace, Transport & Manufacturing) 	
2012 - 2013	<ul style="list-style-type: none"> Head, Department of Engineering Physics 	
2005 - 2010	<ul style="list-style-type: none"> Head, Department of Aerospace Sciences 	
2003 - 2015	<ul style="list-style-type: none"> Professor of Fluid Mechanics and Computational Science 	
2011 - 2012	Founding Director, Computation-based Science and Technology Research Centre	Cyprus Institute ²
2001 - 2003	<ul style="list-style-type: none"> Professor of Fluid Mechanics 	Queen Mary, University of London, UK
1999 - 2001	<ul style="list-style-type: none"> Reader in Computational Fluid Dynamics 	
1995 - 1999	Lecturer in Mechanical Engineering	UMIST ³ , UK
1993 - 1995	<ul style="list-style-type: none"> Team Leader, Computational Aerodynamics Group 	University of Erlangen-Nuremberg, Germany
1992 - 1993	<ul style="list-style-type: none"> Research Scientist 	
* Information on Leadership and impact is provided on pages 2 to 4		

EDUCATION		
1982 --1987	Diploma in Mechanical Engineering (MEng)	National Technical University of Athens (NTUA), Greece
1988 --1991	PhD in Computational Fluid Dynamics (high-speed flows)	NTUA ⁴

MAJOR AWARDS	
2014	The Innovator of the Year Award by The Innovation Institute for a new generation carbon capture technology that uses carbon nanotubes for filtering out carbon dioxide and other gases at low or zero energy cost.
2014	Technical Achievement Award at the International Conference on Mathematical Problems in Engineering, Aerospace and Sciences.
2008 - 2014	William Penney Fellowship , awarded twice (2008 & 2011), by the UK Atomic Weapons Establishment (AWE plc) in recognition of my contribution to compressible turbulent flows. The award is offered to world-renowned subject matter experts in scientific or engineering fields.

¹ Formerly Division of Engineering Sciences.

² In partnership with NCSA (National Centre for Supercomputing Applications) of the University of Illinois at Urbana-Champaign

³ University of Manchester Institute of Science and Technology (UMIST), which since 2003 is *The University of Manchester*.

⁴ Scientific Collaboration with Deutsche Aerospace.

HONORARY & INVITED POSITIONS

2004 - 2007	Honorary Professor	City University, London, UK
2003	Visiting Scholar	Isaac Newton Institute for Mathematical Sciences, University of Cambridge
2003 -	Honorary Professor	St Andrews Centre for Plastic Surgery and Burns Broomfield Hospital, UK
2000 - 2001	Visiting Professor	University of Marseille, France

SUMMARY OF RESEARCH IMPACT

I am an expert in fluid mechanics, computational fluid dynamics (CFD), and nanoscale fluid/solid interfaces. I am active in both fundamental and applied research and my work has been key to resolving fundamental issues across a diverse spectrum of engineering science problems and industries. My long-term aspiration is to make research contributions of ground-breaking nature, which encompass both intellectual excellence and impact on industry and the society. My research work has directly influenced areas as diverse as nuclear deterrence, aerodynamic design, and a new generation gas filtration nanotechnology. Evidence of research impact includes:

- Research on compressible turbulent mixing and the development of multi-scale methods has reduced the computational uncertainty in the modelling and simulation used by the Atomic Weapons Establishment (**AWE plc**) to support the safety and performance of nuclear weapons.
- Developed multi-scale methods for solid/solid and fluid/solid interfaces that couple continuum and molecular dynamics codes, which provide new insights that inform model development at **AWE plc**.
- Contributed to the understanding of efficient heat transfer technologies in Fusion Engineering at the **UK Atomic Energy Authority**.
- Developed high-fidelity computational fluid dynamics (CFD) methods that have had a diverse impact across a range of industries, and are now employed by the German Aerospace Agency (**DLR**) CFD code, which is used by **Airbus** and its contractors; Los Alamos National Laboratory (**LANL**); the Japan Aerospace Exploration Agency (**JAXA**), the French Commissariat à l'Énergie Atomique (**CEA**); as well as many academic groups worldwide.
- Invented a Carbon Nanotubes Gas Filter for CO₂ filtration (**UK Patent 2479257-A, US Patent 20130042762 A1, China Patent CN102892479**) and awarded the Innovator of the Year Award (2014) by The Innovation Institute.
- Shed light on the aerodynamics of the thrust vectoring mechanism of aerospace systems and guided engineering design decisions, using high-fidelity fluid dynamics simulation methods (sponsored by **BAE Systems, MBDA**).
- Advanced the predictive capabilities of near wall turbulence and its effects on acoustic fatigue on hypersonic vehicles (sponsored research through the **US Air Force Office of Scientific Research**) and established the first International Aerospace Symposium on Acoustic Fatigue to be held in Glasgow in September 2017.
- Developed advanced modelling capabilities for the evaluation of the effectiveness of Nitrogen Enriched Air sparging for removing water from the aircraft fuel, and provided recommendations to industry with respect to health-and-safety and environmental issues associated with the release of fuel to the environment (**Eaton Aerospace Ltd on behalf of Airbus**).
- Research on high-resolution CFD, in the framework of Large Eddy Simulation, around Royal Navy Ships led for first time to the realistic (time-accurate) definition of ship/helicopter operating limits, thus enabling experienced RAF pilots to decide if it is possible to land on a ship in a given weather condition (sponsored by **UK MoD/DSTL**).
- Established (2017) the Academic Advisory Panel of the new £180million **UK's Oil and Gas Technology Centre (OGTC)** to act as high-level guide to OGTC Leadership Team on matters relating to academic research and its industrial impact in order to enhance effectiveness of OGTC engagement with relevant applied academic research and knowledge transfer to industry.
- Completed the supervision of **52 PhD and 24 MSc by Research students, and mentored 19 postdoctoral fellows**. All my former students now hold positions in academia and major industries around the world.
- Published as a sole author, as well as jointly with my PhD students, post-doctoral researchers and industrial collaborators, 161 journal and 237 conference publications and edited book chapters, as well as 2 books. **My h-index is 32 (Scopus) and 40 (Google Scholar)**.
- Since 2004 I won as a Principal Investigator research projects funded from a range of sources, including Research Councils, European Union, Industry and Government, totaling approximately £7.5m. A list of industrial collaborations can be found on page 5.

- Since 2010, I have given **13 keynote lectures** at international conferences and **18 invited lectures** at conferences, universities and research organisations.
- **Conference Chair** of three International Conferences: i) 13th International Workshop on the Physics of Compressible Turbulent Mixing that involves National Nuclear Research Labs from the UK (AWE), France (CEA), and the USA (LANL & LLNL); ii) The 29th International Conference on Parallel Computational Fluid Dynamics, Glasgow , 2017; iii) The 1st International Aerospace Symposium on Acoustic Fatigue, Glasgow, 2017.
- **Member of the SU2 team at Stanford University** (Dept of Aeronautics and Astronautics) contributing to the development of the open source code SU2 with respect to compressible flows
http://su2.stanford.edu/teams/US_Team.html.

LEADERSHIP

University of Strathclyde (2015 -)

- *Associate Principal*
 Responsible to the Vice-Chancellor (Professor Sir Jim McDonald)

Summary of the role: I have a University-wide portfolio aiming to support the growth and sustainability of the University across the four Faculties: Science, Engineering, Business, Humanities & Social Sciences, with specific objectives: i) to deliver tangible improvements in the University's financial performance, through international student recruitment and research income growth; and ii) create sufficient headroom for strategic investment over the medium to long term.

- *Executive Dean (Engineering)*
 Responsible to the Vice-Chancellor (Professor Sir Jim McDonald)

Summary of the Role: Provide strategic leadership of the Faculty of Engineering and ensure that i) the Faculty maintains and develops its exceptional national and international profile; ii) the efficient and effective management of the Faculty's resources in the provision of teaching and learning, research, knowledge exchange and internationalisation activities. The Executive Dean is a member of the University Executive and, as such, a member of the senior management team responsible for development of the University Strategy.

Faculty of Engineering: The Faculty of Engineering is the largest engineering Faculty in Scotland and one of the largest in the UK. It is renowned both in the UK and overseas for its research and strong industry links. The Faculty has a £103 million turnover⁵, 850 staff and more than 5,500 students. The Faculty covers all the major academic disciplines and comprises eight leading departments:

- Architecture
- Biomedical Engineering
- Chemical and Process Engineering
- Civil and Environmental Engineering
- Design, Manufacture and Engineering Management
- Electronic and Electrical Engineering
- Mechanical and Aerospace Engineering
- Naval Architecture, Ocean and Marine Engineering

and, additionally, major University Industrial Research Centres:

- Advanced Forming Research Centre
- Power Networks Demonstration Centre
- Advanced Nuclear Research Centre
- Oil & Gas Institute, and
- Maritime and Safety Research Centre.

⁵ The University of Strathclyde as a whole had a total annual turnover (2015-16) of ~£280 million.

Key Responsibilities

- Provide the Faculty with clear academic leadership and strategic direction.
- Actively engage in external networks and public bodies, both national and international, to ensure the Faculty and the University are up-to-date and abreast with external opportunities and challenges and are in a position of significant influence in the sector.
- Continue to develop and raise the Faculty's and the University's national and international profile within academic, policy-making and industrial fora, with charities, trusts and foundations and with high-profile individuals.
- Oversee the further development of research and knowledge exchange (industry-facing) activity in the Faculty.
- Continue the growth of the Faculty's commercial and internationalisation activities.
- Lead on a cohesive and ambitious vision for the Faculty, which is aligned with the University's broader strategic vision, mission and values.
- Ensure the effective and efficient management of the Faculty's resources and finances to ensure the enhancement of the quality of the Faculty's teaching and learning, research and knowledge exchange.
- Participate effectively as a member of the senior management of the University and lead on specific university-wide projects as requested by the Vice Chancellor.
- Fully engage with staff and students of the Faculty through effective communication mechanisms.
- Provide an academic environment in which student learning can thrive, and the quality of the student experience can be enhanced.
- Represent the University's Values across the Faculty and university-wide in order to lead, develop and motivate Heads of Department and all Faculty staff.
- Through regular university-wide interaction, to actively identify and nurture academic and research talent internally in order to retain it, and externally in order to attract it to Strathclyde.
- Control Faculty budgets and work closely with both the Chief Operating Officer and Chief Financial Officer to ensure that the Faculty planning processes and resources (financial, staffing, physical and IT infrastructure) are aligned with strategic objectives.
- Ensure that the teaching and professional activities of the areas of the Faculty are professionally met and in line with the internal and external quality assessment framework.
- Ensure compliance with the University's policies and procedures including Health and Safety at Work regulations, Equality and Diversity, Data Protection and other managerial responsibilities towards all staff and students.

The Executive Dean is the Chair of the Faculty Executive Team, Faculty Planning and Resource Committee and Faculty Management Team, as well as a Member of the Executive Boards of the University's Industrial Research Centres.

Cranfield University (2003 - 2015)

Head of Academic Departments (Aerospace Science & Engineering Physics): I was responsible to the Pro-Vice Chancellor.

Summary of the role: Provide strategic leadership in all the academic activities of the Department; managing staff and financial resources; foster excellence in teaching and research; establish new Academic Programmes of Study and Continuing Development Courses; re-organise the Department's research and administration; manage the refurbishment of facilities and establishment of new laboratories used for teaching and research; represent and promote externally the Department and Cranfield University; facilitate the development of collaboration strategies and partnerships with industry and academia worldwide; contribute to the management and development of the School as a member of the School's Executive Team and the University's Senior Management Team.

Director of Research (School of Aerospace Transport & Manufacturing): I was responsible to the Pro-Vice Chancellor.

Summary of the Role: Provide input to the Research Strategy of the University; responsible for leadership and management of the School's (Aerospace, Transport & Manufacturing) Research and Innovation, including

regulations for the academic and administrative processes for the management of all research students of the School; co-ordinate the School's preparations for external research peer review exercises; co-ordinate Corporate/School Research initiatives; responsible for the activities of the Doctoral Training Centres; enhance the quality of the research supervision and assessment, and disseminating best practice; ensure the achievement of an excellent research environment. I was a member of the School's Executive Management Team, the University's Senior Management Team and the University's Research Committee. The School had an annual turnover of £45 million and a research budget of £17 million.

BOARDS, MAJOR COMMITTEES, DIRECTORSHIPS

2017 -	UK Oil & Gas Technology Centre	Academic Advisory Board
2005 - 2015	AWE-Cranfield	Board of Management
2013 - 2016	European Aeronautics Science Network	Board of Directors & Scientific Advisor
2014 - 2016	Japan-Europe Aerospace Research and Technology Co-operation	Advisory Board
2012 -	European Commission	Expert Evaluator and Panel Member
2013 -	European Research Council	Expert Evaluator and Panel Member
2015	National Nuclear Security Administration, Department of Energy, USA	Expert Evaluator
2010 - 2013	American Institute of Aeronautics and Astronautics	Fluid Dynamics Technical Committee
2004 -	Osborne Reynolds Awards	Scientific Committee Member
2004 -	Engineering and Physical Sciences Research Council	Peer-Review College
2015 -	Specialist Gas Separation Ltd	Director

Membership on International Conference Committees is presented on pages 11 and 12.

FELLOWSHIPS, MEMBERSHIPS AND PROFESSIONAL SOCIETIES

Fellow	Royal Aeronautical Society (RAeS)
Fellow	Institute of Nanotechnology (IoN) (2004-2015)
Senior Life Member	American Institute of Aeronautics and Astronautics (AIAA)
Life Member	American Physical Society
Member	American Society for Mechanical Engineers
Member	American Nano Society
Member	European Research Community on Flow, Turbulence and Combustion
Member	European Fusion Education Network
Chartered Engineer	Engineering Council, UK
Business Fellow	London Technology Network (2000-2003)

SELECTIVE (PAST & PRESENT) COLLABORATIONS WITH INDUSTRY AND MAJOR FUNDING BODIES⁶

- BAE Systems
- Atomic Weapons Establishment
- EPSRC
- European Space Agency
- AgustaWestland
- Commercial Aircraft Corporation of China (COMAC)
- UK Atomic Energy Authority (UKAEA)
- MBDA
- Lockheed Martin
- Chemring Defence
- Airbus Defence and Space Group
- Jaguar Land Rover
- US Air Force
- German Aerospace Agency (DLR)
- Aircraft Research Association (UK)
- Rolls-Royce
- ITER (France)
- Reaction Engines
- SAFRAN Turbomeca
- Redring Xpelair Group
- MagnaParva Ltd
- Ministry of Defence
- European Union
- Los Alamos National Lab
- Lawrence Livermore National Lab
- Commissariat a l'Energie Atomique
- BHR Ltd
- QualityPark AviationCenter GmbH
- TEKEVER Group

⁶ Collaborations in my capacity as University Professor.

- NASA Ames
- Tendeka (Swellfix Ltd)
- Xchanging Solutions
- Eaton Aerospace

EDITORIAL BOARDS

The Aeronautical Journal	Associate Editor	Royal Aeronautical Society
Journal of Fluids Engineering	Associate Editor (2004-2014)	American Society for Mechanical Engineers
Journal of Computational and Theoretical Nanoscience	Associate Editor	American Scientific Publishers
Nanotechnology Reviews	Associate Editor (2012-2013)	De Gruyter
Encyclopedia of Aerospace Engineering	Associate Editor	Wiley
International Journal of Aviation Technology, Engineering and Management	Associate Editor	IGI

EDITORIAL BOARDS MEMBERSHIP

International Journal for Numerical Methods in Fluids, Journal of Nuclear Medicine & Radiation Therapy, International Journal of Applied Engineering Research, Mathematics Applied in Science and Technology, Journal of Nanotechnology, Research Letters in Nanotechnology, Journal of Nanotechnology: Nanomedicine & Nanobiotechnology, Computation (MDPI), Research in Applied Mathematics

EVALUATOR, FUNDING BODIES

- Engineering and Physical Sciences Research Council (UK)
- European Commission (EU, FP7 & H2020)
- European Research Council
- Finnish Academy of Science
- Fund for Scientific Research (Belgium)
- Natural Sciences & Engineering Research Council (Canada)
- National Research Fund (Qatar)
- National Council for R&D, Romania
- Leverhulme (UK)
- Nuffield Foundation (UK)
- Russian Science Foundation

NATIONAL AND INTERNATIONAL THINK TANKS/ASSOCIATIONS/CONSORTIA

2009-2013	Bridging Applied Nano-Technologists	UK
2009-2018	UK Turbulence Consortium	UK
2009	Government Think Tank of Fluid Dynamics in Performance Sport	UK
2006 -- 2010	Management Committee, European Co-operation in the Field of Scientific and Technical Research in HPC and Large Eddy Simulation Methods for Advanced Industrial Design	EU
2005 -- 2008	National Physical Laboratory (NPL) Steering Panel on Dynamic Measurements	UK
1995 -- 1999	Joint co-ordination with Prof Brian Launder of the European Research Community on Flows, Turbulence and Combustion (ERCOFTAC) Association, UK-North Pilot Centre	UK

PhD Students (completion date in brackets)**Master of Science by Research**

Em Carousos (active)	A.Baranda Inok (2012)	C. Vamvakoulas (2011)	N. Papantoniou (2017)
Kevin Singh (active)	B. Obadia (2012)	N. Asproulis (2010)	P.Aguado Lopez (2014)
M.Papanikolaou (2017)	Z. Rana (2012)	N. Epiphaniou (2010)	D.Nakos (2014)
J. Appleyard (2014)	D. Sourmaidou (2012)	Z. Malick (2010)	M.Picciani (2014)
C. Barmparousis (2015)	P. Barton (2011)	M. Porton (2010)	A.Grammatikopoulos (2013)
M. Frank (2015)	M. Benke (2011)	P. Tsoutsanis (2010)	T.Natarajan (2013)
K. Iqbal (2014)	A. Antoniadis (2013)	I. Kokkinakis (2009)	D.Toufexis (2013)
M.Probyn (2014)	M. Lai (2011)	J. Lechuga (2009)	M.Sartzetaki (2012)
M. Rafi (active)	A. Milonas (2011)	S. Loiodice (2009)	L. Gerousi (2012)
A. Weatherhead (active)	J. Milnes (2011)	A. Mosedale (2009)	A.Voskaki (2012)
I. Zissimos (2014)	E. Quaranta (2011)	Z. Zachariadis (2009)	C.Liang (2011)
M.Kio (2014)	C. Papachristou (2011)	M. Hahn (2008)	L. Brondolo (2011)
K. Karantonis (2013)	Y. Shimada (2011)	M. Kalweit (2008)	C. Milionis (2009)
L. Konozy (2013)	S. Tissera (2011)	S. Patel (2008)	Alan Baldwin (1998)
D.Mantzalis (2013)	C. Vamvakoulas (2011)	B. Thornber (2008)	Juan Gonzalez (1998)
A. Mihaiescu (2013)	N. Asproulis (2010)	P. Neofitou (2001)	Wim Lefebvre (1998)
T. Oggian (2013)	N. Epiphaniou (2010)	A. Bagabir (2000)	M. Zohdi (1998)
	Z. Malick (2010)	A. Kani (2000)	N. Kokkonidis (1996)
	S. Tissera (2011)	G. Barakos (1999)	Nick van Maale (1996)
			Alex Griffith (1997)
			Eva Arenas Pinilla (1997)
			Katrien Van den Broeke (1997)
			L. Temmerman (1996)
			I. Triantafyllos (1996)

TEACHING & LEARNING, including leadership with respect to new taught programmes**University of Strathclyde**

- Established the Stanford-Strathclyde Biodesign Programme a ground-breaking training programme in medical technology innovation and entrepreneurship.
- Initiated a new MSc in Autonomous Systems and Robotics
- Co-director of the Biofluid Mechanics MSc

Cranfield University

- Courses I have taught:
 - Advanced and Classical Turbulence Modelling
 - Fluid Mechanics and Heat Transfer
 - MSc group projects
 - CFD for Aerospace Applications
 - Micro/Nano Flows
 - CFD for Automotive Flows
 - Established new MSc Programmes in
 - Computational Fluid Dynamics and
 - Autonomous Vehicles Dynamics and Control
- supported by several industrial sponsors.
- Director of Cranfield Aerospace Doctoral Training Centre (2008-2010).

Other courses I have taught

Queen Mary, University of London	<ul style="list-style-type: none"> ▪ Computational Fluid Dynamics ▪ Stability and Control of Aircraft 	<ul style="list-style-type: none"> ▪ Advanced Aerodynamics
University of Manchester (UMIST)	<ul style="list-style-type: none"> ▪ Computational Fluid Dynamics ▪ Fluid Mechanics ▪ Heat Transfer ▪ 	<ul style="list-style-type: none"> ▪ Thermodynamics ▪ Engineering Design
University of Erlangen-Nuremberg	<ul style="list-style-type: none"> ▪ Computational Fluid Dynamics ▪ Heat Transfer 	<ul style="list-style-type: none"> ▪ Fluid Mechanics ▪ Parallel Computing
Short Courses	<ul style="list-style-type: none"> ▪ Introduction to Godunov Methods, Oxford ▪ Heat Transfer and Fluid Flow Studies using Parallel Computing, Delft Univ. ▪ 7th and 8th Biennial Colloquia on CFD, UMIST ▪ Turbulence: Principles, Models, and Numerical Methods, University of Erlangen-Nuremberg ▪ NUMET'94 Numerical methods for the Computation of Flows and Heat Transfer Problems, University of Erlangen-Nuremberg. ▪ Efficient Flow Simulations through New Numerical Methods and Parallel Computing, University of Erlangen-Nuremberg 	
(Selective) Industrial short courses	<ul style="list-style-type: none"> ▪ Jaguar Land Rover: Fluid Mechanics and Computational Fluid Dynamics ▪ COMAC: Aerodynamics, Computational Fluid Dynamics ▪ MWH: CFD for Industry an Executive Overview ▪ Large Eddy Simulation Short Course for Industry, jointly with F. Grinstein (Los Alamos National Lab) and N. Georgiadis (NASA Glenn) 	
External Examiner	<ul style="list-style-type: none"> ▪ External Examiner of Master of Science Programmes at Imperial College (2006-2010), University of Southampton (2006-2010), University of Manchester (2014 - 2018), Brunel University (2012 – 2016) and PhD examiner at several universities in the UK 	

KEYNOTE AND INVITED PRESENTATIONS

2017	Plenary , The Sixth International Conference Tenth Anniversary Program 'Turbulent Mixing and Beyond'	Abdus Salam International Center for Theoretical Physics	Trieste, Italy
2017	Plenary , First World Congress on Condition Monitoring	ILEC Conference Centre	London, UK
2016	Keynote International Workshop on Recent Advances in Numerical Methods for Hyperbolic Conservation Laws and Nonlinear Time Dependent Partial Differential Equations in Honour of the 70th Birthday of Prof. Dr. Dr. hc. Eleuterio F. Toro, OBE	University of Trento	Italy
2016	Keynote , Workshop on "Hybrid Simulation Methods in Fluid Dynamics: Models, Software, and Applications"	Technische Universität München	Munich, Germany
2016	Keynote , Multiphase CFD Modelling	Institution of Mechanical Engineers	London, UK
2015	Clarendon Lab, Department of Physics	University of Oxford	UK
2015	European Workshop on High Order Nonlinear Numerical Methods for Evolutionary PDEs: Theory and Applications	University of Trento	Italy
2014	Keynote , 4th Micro and Nano Flows Conference		London, UK

2014	Keynote , 11th International Conference of Condition Monitoring and Machinery Failure Prevention Technologies (Selected as the Best Conference Paper)	British Institute of Non-Destructive Testing and US Society for Machinery Failure Prevention Technology	Manchester, UK
2014	Keynote , 10th International Conference on Mathematical Problems in Engineering, Aerospace and Sciences	Narvik University, Embry-Riddle Aeronautical University	Narvik, Norway
2014	International Meeting of Specialists on Heat Transfer to Fluids at Supercritical Pressure	University of Manchester	Manchester, UK
2014	High-Order and Multi-Scale Methods for Flight Physics	NASA Ames Research Centre, Advanced Supercomputing Division	CA, USA
2014	3 rd International Workshop on Computational Experiments in Aeroacoustics	M.V. Keldysh Institute of Applied Mathematics	Svetlogorsk, Russia
2012	Keynote , Flying Test Beds for Novel Aircraft Configurations for Future Air Transport	European Commission, Aeronautics	Brussels, Belgium
2013	Annual Keynote Lecture , Flying Concepts and Computational Science in Support of their Development	Airbus Group	Bavaria, Germany
2013	9th UK - Japan Seminar on Multi-Phase Flow	UK-Japan Collaboration	London, UK
2013	Keynote , Mosaic3DX Conference	Microsoft research and Univ. of Cambridge	Cambridge, UK
2013	Invited Seminar, Computational Science Modeling for Biomedical Applications	Academy of Athens, Biomedical research Foundation	Athens, Greece
2012	Keynote , Young Researchers in Mathematics 2012 Conference	School of Mathematics, Bristol University	Bristol, UK
2012	3rd International EULAG Workshop on Eulerian/Lagrangian Methods for Fluids	Natural Environment Research Council, National Centre for Atmospheric Science	Loughborough, UK
2011	Keynote , EU Marie Curie Workshop on Combustion and Atmospheric dispersion	University of Cyprus	Cyprus
2011	International Workshop on Numerical Methods and Modelling for Compressible Multimaterial Flows and Mixing	Institute of Applied Physics and Computational Mathematics	Beijing, China
2011	3rd Micro and Nano Flows Conference		Thessaloniki, Greece
2011	High Performance Computing: Regional Developments and Future Opportunities	Joint HP-SEE, LinkSCEEM-2 and PRACE HPC Summer Training	Athens, Greece
2011	Frontiers of numerical jet modelling: from engineering to environmental flows	Royal Society Seminars	Kavli Centre, UK
2011	Invited seminar	Royal Society Research Fellow International Scientific Seminar	Cambridge, UK
2011	IChemE's Event: What next for fluid simulations of fluid mixing processes?	IChemE, King's College	London, UK
2010	Keynote , Mars Workshop on Drying Technologies	Mars GmbH	Verden, Germany
2010	Multiphysics and Unsteady Simulations for Aeronautical Flows MUSAF Colloquium	Centre Européen de Recherche et de Formation Avancée en Calcul Scientifique (CERFACS)	Toulouse, France
2010	Invited seminar	Aeronautics Department, University of Southampton	Southampton, UK
2010	7th International Conference on Heat Transfer, Fluid Mechanics and Thermodynamics		Antalya, Turkey.
2009	Workshop on Modern Trends in Computational Aerodynamics (MTCA'09)	College of Engineering and Physical Sciences, University of Birmingham	Birmingham, UK

2009	Applied Mathematics Seminars	University of Birmingham	Birmingham, UK
2008	Royal Society Conference: Applied Large Eddy Simulation	Royal Society	London, UK
2009	EPSRC Workshop on Computational Fluid Dynamics	University of Warwick	Warwick, UK
2009	First International Conference on Computational Methods for Thermal Problems		Naples, Italy
2009	Keynote , Parallel CFD Conference	NASA Ames	CA, USA
2007	Second International Conference in Advanced Computing and Simulation	University of Cambridge	Cambridge, UK
2007	Invited Seminar	University of Southampton	Southampton, UK
2007	Keynote , World Engineering Congress		London, UK
2007	Colloquium on LES for External Aerodynamic Flows	Royal Aeronautical Society	London, UK
2006	Workshop on Classical versus Implicit Large Eddy Simulation	Oxford University	Oxford, UK
2005	Invited seminar on CFD and Multi-Scale Methods	BAE Systems	Bristol, UK
2003	ERCOFTAC Lecture	ETH	Zurich, Switzerland
2003	Conference on Multiphase Fluid Flows and Multi-Dimensional Hyperbolic Problems	Isaac Newton Institute for Mathematical Sciences, Cambridge University	Cambridge, UK
2001	Invited Seminar	University of Greenwich	London, UK
2000	ECCOMAS Conference, Forum on "Low Mach Number Flows"	ECCOMAS	Barcelona, Spain
2000	Forum on CFD in Aeronautics organised by European Union Industrial Directorate	ECCOMAS	Barcelona, Spain
2000	Sixth International Conference on Applications of High-Performance Computers in Engineering		Hawaii, USA
1999	International Conference "Godunov Methods: Theory and Applications"	St Anne's College, Oxford University	Oxford, UK
1999	Keynote , IMechE Conference on CFD	Institution of Mechanical Engineers	London, UK
2001	Symposium on Modelling Biological Flows: Status & Challenges for the Future	Daresbury Laboratories	Daresbury, UK
2001	ECCOMAS CFD Conference	Swansea University	Swansea, UK
2001	Workshop on Five-Year Vision for Prediction and Control of Unsteady Flow Phenomena in Aerospace Aerodynamics	European Commission	London, UK
2001	Symposium on Advective Methods	British Applied Mathematics Colloquium	Reading, UK

Invited/Keynote presentations before 2001: Univ. of Greenwich, UK (2001), University of Marseille, France (2000), Isaac Newton Inst. (1999), Cambridge Univ. - DAMTP (1998, 1999), Imperial College - Aerospace Eng. Dept. (1998), Nottingham University - Mechanical Eng. Dept. (1998), BAe \& ERCOFTAC UK South Workshop on Turbulence Structures (1998), University of Manchester - Physics Department (1997), University of Toronto - Institute of Aerospace Studies (1997), University of Waterloo (Canada) - Mech. Eng. Dept. (1997), CEC High-Performance Computing Conference (1996), MMU - Applied Mathematics Dept. (1996), GKN Westland Helicopters (1996), Glasgow University - Aerospace Eng. Dept. (1995), Technical University of Prague - Mechanical Eng Dept. (1995), Institut de Mecanique des Fluides de Toulouse (1994), Royal Institute of Technology, Sweden (1994), University of Freiburg (Germany) - Applied Mathematics Dept (1993), Daimler Benz Aerospace (DASA) (1993)

Scientific, Advisory and Organising Committees

2018	Joint 6 th European Conference on Computational Mechanics (ECCM) and 7 th European Conference Computational Fluid Dynamics (ECFD)	Glasgow, UK
2017	Chair , 1st International Aerospace Symposium on Acoustic Fatigue	Glasgow, UK
2017	Chair of the International Parallel CFD Conference	Glasgow, UK
2017	CMBE17: International Conference on Computational and Biomedical Engineering	Pittsburgh, USA
2017	World Congress & Expo on Nanotechnology and Nanoengineering	Dubai, UAE
2017	3rd Int'l Conference on Microsystems and Nanotechnologies (ICMN 2017)	Shenzhen, China Shanghai, China
2016	2nd Int'l Conference on Microsystems and Nanotechnologies (ICMN 2016)	
2016	6 th EASN International Conference on Innovation in European Aeronautics Research.	Porto, Portugal
2015	IMA Conference on Numerical Methods for Simulation	Oxford, UK
2015	8th European Symposium on Aerothermodynamics for Space Vehicles (Organiser: European Space Agency)	Lisbon, Portugal
2014	4th EASN Association International Workshop on Flight Physics and Aircraft Design	Aachen, Germany
2011-2015	4 th International Conference on Computational and Biomedical Engineering	USA, Hong Kong, France
2010-2014	International Conference on Computational Fluid Dynamics	Russia, USA, China
2014	3 rd International Conference on Computational methods for Thermal Problems	Slovenia
2007-2014	World Engineering Congress	London, UK
2014	11th International Conference of Condition Monitoring and Machinery Failure Prevention Technologies	Manchester, UK
2014	Mech Aero-2014, 2nd International Conference and Exhibition on Mechanical & Aerospace Engineering	Philadelphia, USA
2012	Chair , 13 th International Workshop on the Physics of Compressible Turbulent Mixing	Woburn, UK
2012	9th International ERCOFTAC Symposium on Engineering Turbulence Modelling and Measurements	Thessaloniki, Greece
2012	New Models & Hydrocodes 2012 Conference	London, UK
2011	8th International Symposium on Shock Waves	Manchester, UK
2011	2011 American Institute of Aeronautics and Astronautics (AIAA) Conference on CFD	Hawaii, USA
2009-2011	2nd African Conference on Computational Mechanics, AfriComp11	Cape Town, South Africa
2010	12 th International Workshop on the Physics of Compressible Turbulent Mixing	Moscow, Russia
2001, 2006, 2010	ECCOMAS CFD Conference	UK, The Netherlands, Portugal

2009	Workshop on Quality and Reliability of Large Eddy Simulations II	Pisa, Italy
2009	2nd Micro and Nano Flows Conference	London, UK
2009	1st African Conference on Computational Mechanics, Africomp'09	Cape Town, South Africa
2009	Large Eddy Simulation Short Course, jointly with F. Grinstein (LANL) and N. Georgiadis (NASA Glenn)	Cranfield, UK
2008	2nd South African International Aerospace Symposium (SAIAS2008)	Cape Town
2007	Symposium on Quality of Large Eddy Simulations - QLES2007	Leuven, Belgium
2006	"Micro and Nanoscale Flows: Advancing the Engineering Science and Design Conference"	Glasgow, UK
2005	Conference on "High Order Non-Oscillatory Methods for Wave Propagation: Algorithms and Applications"	Trento, Italy
2000-2005	ASME International Mechanical Engineering Congress and Exposition (IMECE 200-2005)	Boston, New York, New Orleans, Washington DC, Anaheim, Orlando, USA
2000	Sixth International Conference on "Applications of High Performance Computers in Engineering (HPC 2000)"	Hawaii, USA
1999	Conference "Godunov Methods: Theory and Applications" on the occasion of Prof. Godunov's 70th birthday	Oxford, UK
1999	2nd Joint ASME & JSME (Japanese Society for Mechanical Engineers) International Symposium on Validation Systems Transients Analysis Codes," ASME Fluids Engineering Conference	San Francisco, USA.
1998	Symposium "Multilevel Methods for Incompressible Viscous Flows", 4th SIAM International Conference on Numerical Methods and Applications	Sofia, Bulgaria
1997	5th International Conference on Applications of High Performance Computers in Engineering (HPC 97)	Santiago de Compostela, Spain
1997	International Parallel CFD'97 Conference	Manchester, UK
1996	Parallel CFD Workshop	Slovenia
1996	UMIST 7th CFD Colloquium	Manchester, UK
1994	EUROMECH Colloquium 315: "Efficient Numerical Methods and Parallel Computing in Fluid Mechanics"	University of Erlangen-Nuremberg, Germany

Research publications

(Scopus Author ID: 56273846200)

Books

1. D. Drikakis and W. Rider⁷ *High-Resolution Methods for Incompressible and Low-Speed Flows*, Springer, 2005, 622 pages CFD textbook, (ISBN: 3-540-22136-0).
2. D. Drikakis and B. Geurts⁸ (Eds) *Turbulent Flow Computation*, Kluwer Academic Publishers, 369 pages, 2002 (ISBN: 1-4020-0523-7).

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1. C. Barmparousis, D. Drikakis, Multi-dimensional quantification of uncertainty and application to a turbulent mixing model, *Int. J. Numer. Meth. Fluids* 2017; 0:1–19 (in print).
2. K. Ritos, I. Kokkinakis, D. Drikakis, S. Spottswood, Implicit Large Eddy Simulation of Acoustic Loading in Supersonic Turbulent Boundary Layers, *Physics of Fluids*, 29, 046101, 2017.
3. M. Lappa, D. Drikakis, and I. Kokkinakis, On the propagation and multiple reflections of a blast wave travelling through a dusty gas in a closed box, *Physics of Fluids*, 29, 033301, 2017.
4. M. Papanikolalou, M. Frank, D. Drikakis, Effects of surface roughness on shear viscosity, *Physical Review E*, Vol. 95, 033108, 2017.
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6. M. Papanikolalou, M. Frank, D. Drikakis, Nanoflow over a fractal surface, *Physics of Fluids*, 28(8), 082001, 2016.
7. K. Deepak, M. Frank, D. Drikakis, and N. Asproulis, Thermal Properties of a Water-Copper Nanofluid in a Graphene Channel, *J. Comput. Theor. Nanosci.* 13, 79-83. 2016.
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9. I. Kokkinakis, D. Drikakis, D.L. Youngs, R.J.R. Williams, Two-equation and multi-fluid turbulence models for Rayleigh-Taylor mixing, *Int. Journal of Heat and Fluid Flow*, Volume 56, Pages 233-250, 2015
10. T. Oggian, D. Drikakis, D. Youngs, R. Williams, Computing multi-mode shock-induced compressible turbulent mixing at late times, *Journal of Fluid Mechanics*, Volume 779, 2015, Pages 411-431.
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14. D. Drikakis, N. Asproulis, and D. Mantzalis, Carbon Dioxide Capture Using Multi-Walled Carbon Nanotubes, *J. Comput. Theor. Nanosci.* 12, 3981-3993, 2015.
15. I. Kokkinakis, D. Drikakis, Implicit Large Eddy Simulation of Weakly-Compressible Turbulent Channel Flow, *Computer Methods in Applied Mechanics and Engineering*, 287, 229–261, 2015.
16. D. Mantzalis, N. Asproulis, D. Drikakis, The effects of defects in CO₂ diffusion through Carbon Nanotubes, *Chemical Physics Letters*, 608, 244-248, 2014.
17. A. Artusi, Z. Sou, Z. Zhang, D. Drikakis and X. Lou " High-Order Wavelet Reconstruction for Multi-Scale

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⁸University of Twente, The Netherlands.

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Appendix 1: Research grants started/completed (2012-2017)

<p>Grants obtained (started or completed) within the last 5 years; as Principal Investigator (PI) or Co-Investigator (Co-I). As Executive Dean of the Faculty of Engineering, I have led and continue to lead several Faculty wide projects that make significant contribution to the university finances. These projects are not listed below.</p>		
Sponsor	Grant value	Nature of collaboration
AWE plc	£135,000 (Principal Investigator)	(Research project) The research concerns high-order large eddy simulations, as well as engineering turbulence and multi-scale modelling of shock physics and compressible turbulent mixing aiming to reduce the computational uncertainty in the modelling and simulation used by the Atomic Weapons Establishment (AWE plc) to support the safety and performance of nuclear weapons.
US Air Force (USAF) Office of Scientific Research	£136,932 (Principal Investigator)	(Research project) The project concerns computational modelling and simulation of supersonic/hypersonic transitional and turbulent flows and acoustic fatigue on the structures of hypersonic vehicles. I am also the Conference Chair of the first International Aerospace Symposium on Acoustic Fatigue to be held in Glasgow in September 2017.
Eaton Aerospace Ltd on behalf of Airbus (Toulouse)	£30,000 (Principal Investigator)	(KE, consultancy project) The project concerns the evaluation of the effectiveness of Nitrogen Enriched Air sparging for removing water from the aircraft fuel, and provides recommendations to industry with respect to health-and-safety and environmental issues associated with the release of fuel to the environment.
Tendeka (Swellfix) Ltd	£40,000 for Phase 1 plus additional funding (tbc) for follow up projects. (Principal Investigator)	(Research project) The project concerns a computational investigation of the performance of an Autonomous Inflow Control Device, which is used as a valve for oil production applications. Phase 2 will concern optimisation of the device.
Engineering and Physical Sciences Research Council (EPSRC)	£572,579 (Co-I)	(Research project) An expanded high-end-computing (HEC) consortium aiming to investigate fundamental aspects of turbulence using numerical simulations. The project provides core allocation of HEC time to enable my research group to carry out simulations of world-leading quality.

AWE William Penney Fellowship	£180K (PI)	(Research project) Award in recognition of my contribution to compressible turbulent flows. The award is offered to world-renowned subject matter experts in scientific or engineering fields.
ESTOLAS (European Union funded project)	€108,208 (PI)	(Research project) The project concerned the development of a novel new type hybrid aircraft combining the best qualities of an airship, a plane, a helicopter and a hovercraft, aiming at extremely short takeoff and landing on any surface; (www.estolas.eu)
CHANGE (European Union funded project)	€582,500 (PI)	(Research project) The CHANGE project aimed to insert novel morphing technologies into air transport aircraft, enabling the aircraft to fly with increased performance during the length of their mission. http://change.tekever.com/homepage
MBDA	£14,000 (PI)	Research project on the applicability of molecular dynamics methods to study high-temperature effects on aerospace materials.
MBDA	£13,500 (PI)	Research project on CFD for Thrust Vectoring in Aerospace Systems aiming to improve the aerodynamic performance of rockets
MBDA	£13,500 (PI)	Consultancy on Statistical Methods
MBDA	£17,500 (PI)	Research project on Jetavator system performance using high-resolution Large Eddy Simulations on unstructured grids.
BAE Systems	£70K (PI)	Research project on Thermal Management - Avionics Chamber using nanomaterials.
EPSRC	£505,000 (Co-I)	Bridging Applied Nano-Technologists. Research project aiming to develop multi-scale methods and apply them to a broad range of engineering problems.
EPSRC	£375,528 (Co-I)	UK Turbulence Consortium. An expanded high-end computing (HEC) consortium aiming to investigate fundamental aspects of turbulence using numerical simulations.
Research Promotion Foundation (Cyprus)	€1,100,000 (PI)	A Multi-Teraflops Computing Facility for Computational Science and Technology