2017 Honours, Medals & Awards
Royal Aeronautical Society

RAeS
Honours, Medals & Awards

The global aerospace community’s most prestigious and long-standing awards honouring achievement, innovation and excellence.

The Royal Aeronautical Society has been honouring outstanding achievers in the global aerospace industry since 1909, when Wilbur and Orville Wright came to London to receive the Society’s first Gold Medal. Over the years, honouring aerospace achievers in this way has become an annual tradition. The Society’s Awards Programme recognises and celebrates individuals and teams who have made an exceptional contribution to aerospace, whether it is for an outstanding achievement, a major technical innovation, exceptional leadership, or for work that will further advance aerospace.

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RAeS Honours

Honorary Fellowship

The world’s highest distinction for aerospace achievement awarded only for the most outstanding contributions to the aerospace profession.

Professor Robert Bor FRAeS

Co-Director, Centre for Aviation Psychology Ltd

Professor Bor is admitted to Honorary Fellowship in recognition of the outstanding and lasting contributions that he has made in the field of aviation clinical psychology throughout a long and distinguished career spanning three decades. Professor Bor played an important role in establishing aviation clinical psychology as a recognised sub-specialism in global aviation health and he is recognised as one of the world's pre-eminent authorities on pilot mental health assessment, pilot selection and pilot peer-support initiatives. His work has led to significant advances in pilot well-being. He is also a recognised authority on the psychological treatment of flying phobias and passenger behaviour.

Professor Bor worked as a clinical psychologist in Johannesburg General Hospital and taught at the University of Witwatersrand until 1985 when he moved to England. He then developed his clinical and academic career in various posts in Goodmayes Hospital, the Royal Free Hospital, University College and City University. From 1996 to 1999 he was Professor of Psychology at City University, London, moving to London Guildhall University as Professor of Psychology from 1999 to 2002. Since then he has been the Lead Consultant Psychologist at the Royal Free Hospital, London and Visiting Professor at City University. He has been an Honorary Civilian Consultant to the Royal Air Force since 2009. In 2016 he founded the Centre for Aviation Psychology, based in London. Following the Germanwings incident he helped to revise ICAO medical guidance on pilot mental health. He holds a private pilot’s licence and is a liveryman of the Honourable Company of Air Pilots. Professor Bor is a Freeman of the City of London and is a Winston Churchill Fellow.
RAeS Medals

RAeS Gold Medal

Awarded for work of an outstanding nature in aerospace.

Mr Greg Wyler
Executive Chairman, OneWeb LLC

Mr Wyler is awarded the Society Gold Medal in recognition of his exceptional work in creating O3b Networks, an Internet service provider with a constellation of satellites providing broadband connectivity to third world countries as far apart as American Samoa and the Democratic Republic of the Congo. O3b has emerged as the largest internet service provider in the Pacific and has been a boon to islands across the Pacific. Customers there are enjoying broadband speeds an order of magnitude better than before at a fraction of the price. This has paved the way for an even more ambitious programme – OneWeb – that is on the verge of launching the first of a new constellation of hundreds of satellites with the initial ambition of offering broadband access to every school in the world by 2022.

Mr Wyler attended Xavier University in Cincinnati and then studied finance and computer science at North Adams State College, Massachusetts, and law at the Illinois Institute of Technology, Chicago. He then became a computer entrepreneur devising heat sinks for the personal computer industry before turning to telecommunications projects in rural Africa. He founded Terracom to bring cell phone and internet services to Rwanda, setting up Africa’s first 3G cellular network. He then devised the O3b constellation of medium-earth orbit satellites. Mr Wyler founded OneWeb in 2012 with the mission of enabling Internet access for everyone across the world through low-earth orbit satellites. The first OneWeb satellites are being built by Airbus and are due to be launched in 2018. In 2017 Intelsat merged with OneWeb, with Mr Wyler as Director and Executive Chairman. Mr Wyler is an instrument rated private pilot flying both helicopters and fixed-wing aircraft.

RAeS Silver Medal

Awarded for work contributing to major advances or contributions in aerospace.

Dr Martin Unwin
Principal Global Navigation Satellite Systems Engineer, Surrey Satellite Technology Ltd

Dr Unwin is awarded the Society Silver Medal in recognition of his pioneering work in the use of Global Positioning System (GPS) technology on board spacecraft for in-space navigation and for remote sensing of the Earth. This led to Surrey Satellite Technology Ltd (SSTL) being selected to supply the main payload for NASA’s CYGNSS mission to measure hurricanes, launched in 2016, and to the company’s undisputed leadership in Europe of satellite navigation payloads.

Dr Unwin pioneered the use of a GPS receiver on Surrey University’s PoSAT-1 microsatellite while still a PhD student in 1991. He then initiated SSTL’s work on Global Navigation Satellite Systems (GNSS) and developed the first flight demonstration of GPS-based attitude determination on a satellite. He led the design of a family of GPS receivers for spacecraft that have flown on more than 100 satellites and he was leader of the navigation team that developed Europe’s first navigation satellite, Giove-A. In 2010, Dr Unwin was appointed Head of GNSS/GPS Technology at SSTL and from 2011 has been their Principal GNSS Engineer.
**RAeS Bronze Medal**

Awarded for work leading to advances or contributions in aerospace.

**Mr Michael Gamlin FRAeS**

Manager – Air Safety Investigation, Rolls-Royce PLC

Mr Gamlin is awarded the Society Bronze Medal in recognition of his contribution to air safety investigation. He led his first accident investigation in 1990 following the loss of an RAF Tornado aircraft. He has subsequently provided technical advice to numerous Boards of Enquiry into accidents and incidents around the world involving Rolls-Royce aircraft engines. He also supported the engine investigation following the Concorde crash in Paris.

Mr Gamlin joined Rolls-Royce as a Technician Apprentice in 1974. His initial roles were in the Quality, Product Support, Service Engineering and Materials departments where he developed his investigation experience. In 1990 he was appointed Principal Defect Investigation Engineer, leading a team of engineers investigating service failures in military engines. In 2002 he was appointed Air Safety Investigation Manager at Rolls-Royce leading a team that is trained to support state safety investigation authorities worldwide. He is a member of Cranfield University’s Accident Investigation Centre Industry Advisory Board and a Governor of the Flight Safety Foundation.

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**RAeS Team Gold Medal**

Awarded for outstanding contributions to aerospace art, science and engineering.

**Solar Impulse 2 Team**

The Solar Impulse 2 Team is awarded the Team Gold Medal for the first circumnavigation of the Earth with an aircraft powered only by solar energy, completed during 2015 and 2016. The aircraft design embraced advanced technologies and extended the boundaries of aerospace design. Piloting the aircraft, with each flight lasting days rather than hours, was a prodigious feat of human endurance. Overall the enterprise, which took 14 years from conception to completion, was a triumph of design, engineering, planning and execution, and it sent a distinctive and highly visible Green Energy message to the nations of the world.

The team leader and the visionary behind the Solar Impulse venture, Dr Bertrand Piccard, was born into a pioneering family with a tradition of scientific exploration and protection of the environment. His vision is to use science and adventure to demonstrate that clean technologies hold the key to improving quality of life. Andre Borschberg is the co-founder of the Solar Impulse project. An engineer, fighter pilot and entrepreneur, he led the research, design and construction of the aircraft. He also shared with Dr Piccard the task of piloting Solar Impulse 2 on alternate legs of the circumnavigation during which he made the longest non-stop solo aeroplane flight in history, lasting nearly five days, from Nagoya in Japan to Hawaii. The team comprises experts in a broad range of aerospace disciplines including design, engineering, manufacture, meteorology and flight operations.
RAeS Team Bronze Medal

Awarded for notable contributions to aerospace art, science and engineering.

Osprey 30 AESA Radar Team
Leonardo UK

This award recognises the innovative design of the Osprey 30 fixed-panel active electronically scanned array (AESA) radar. The Osprey 30, with its electronic beam steering antennas and multi-channel receiver, offers a step change in capability and operational flexibility for this class of radar compared with radars using conventional mechanically-scanned antennas. The team combined extensive experience of platform integration with innovative design practices to integrate the three fixed-panel antennas behind radome panels within the AW101 aircraft mould line – a first for platforms of this class. The radar has been selected for the Norwegian AW101 All Weather Search and Rescue Helicopter as it offers 360 degree coverage and is compatible with operations from unprepared, deep-snow, locations.

The Osprey 30 team, led by Chris Axcell and brought together three years ago, comprises a dozen experienced engineers from the Leonardo Airborne & Space Systems Division in Edinburgh and the Leonardo Helicopter Division at Yeovil. The team members cover a range of aerospace engineering disciplines including: systems; software; firmware; electrical; mechanical; and integrated logistic support.

RAeS Team Bronze Medal

Awarded for notable contributions to aerospace art, science and engineering.

Chinook Rotary Wing Flight Physics Team
QinetiQ, MoD Boscombe Down

This award recognises the crucial role that the Chinook Rotary Wing Flight Physics (RWFP) team played in securing Release to Service of the Digital Automatic Flight Control System (DAFCS) across the Royal Air Force Chinook fleet. DAFCS represents a major upgrade in operational capability and was introduced into the various marks of RAF Chinook over several years. During this time the Chinook RWFP team provided the corporate memory within ever-changing MoD/industry combined test teams. The RWFP team played a vital role in independently scrutinising the preparation and conduct of flight trials, and the integrity of data to ensure that a safe capability was delivered to the RAF. The Military Aviation Authority has recognised the Chinook DAFCS certification as an exemplar of such work.

The Chinook RWFP team is based at QinetiQ, MoD Boscombe Down. It comprises seven aeronautical engineers led by Mr Anthony Dyer. Distinctively, the members of the team are both systems specialists and flight test engineers. Four of the team are graduates of the Flight Test Engineer course at the Empire Test Pilots’ School.
Specialist Awards

The Society's Specialist Awards are intended to cover the full range of aerospace disciplines. These Awards are given to both individuals and teams.

Specialist Silver Award

Awarded for exceptional work that has led to significant advances or contributions within specialist disciplines in aerospace.

Professor Peter Hancock FRAeS
Provost Distinguished Research Professor & Pegasus Professor, University of Central Florida

Professor Hancock is awarded the Specialist Silver Award in recognition of his work on human behavioural response to high-stress and high-workload conditions in aviation and aerospace operations. He has devoted his entire career to understanding and explaining the relationship between humans and machines, and the many intrinsic complications of that relationship. He was one of the originators of the concept of adaptive human-machine systems predicated upon assessment of the psychological state of the operator. The scope of his work has covered piloted and remotely piloted aircraft, both civil and military, and space flight.

Dr Peter Hancock is Provost Distinguished Research Professor, Pegasus Professor, and University Trustee Chair in the Department of Psychology and the Institute for Simulation and Training at the University of Central Florida in Orlando, Florida. He is the author of over 900 research publications, is a past-president of three scientific societies and a Fellow of nine such societies including the American Association for the Advancement of Science, the Aerospace Medical Association, as well as the Royal Aeronautical Society. He is a Member of the International Academy of Aviation and Space Medicine.

Specialist Bronze Award

Awarded for work of merit that has led to advances or contributions within specialist disciplines in aerospace.

Dr Donatella Ricci

Dr Ricci is awarded a Specialist Bronze Award in recognition of her record-breaking achievements in autogyros. She holds nine Federation Aeronautique Internationale approved world records in the autogyro class, culminating in November 2015 in the absolute altitude record for an autogyro of 8,399m (27,556ft). Dr Ricci’s record flight was self-financed, without the help of a major aerospace company, using a modified production aircraft. The modifications to optimise high altitude performance, which included weight-saving, fuel mixture, propeller pitch and lengthened rotor blades, had a detrimental effect at low level thus the aircraft needed very careful handling in the early stages of the climb. Dr Ricci also developed a lightweight oxygen system, with back-up and thermal protection.

Dr Ricci is a physics graduate from Sapienza University of Rome and has a PhD in astrophysics. After graduation she was awarded fellowships at the Jet Propulsion Laboratory, Goddard Space Flight Centre, and at the Amelia Earhart Foundation. She has worked for Leonardo since 1996 as a programme manager on the BeppoSAX, Cosmo Skymed, Orfeo and Sabrina satellite programmes followed by the simulator programme for the M346 supersonic advanced trainer. She is currently a programme manager with the NH90 programme. Dr Ricci is an ultralight flight instructor for fixed wing and gyroplane aircraft.
Specialist Bronze Award

Awarded for work of merit that has led to advances or contributions within specialist disciplines in aerospace.

Mr Jonathan Pulham MRAeS
Operational Analyst, HQ Air Warfare Centre, RAF Waddington

Mr Pulham is awarded a Specialist Bronze Award for his achievements in developing the Royal Air Force’s understanding of the theory, analysis and modelling of the visual and acoustic detection of aircraft. Visual and acoustic detection ranges have an important impact on both aircraft survival and mission effectiveness, but before Mr Pulham began his work the ability to predict these ranges was inadequate to support mission planning. With only occasional support Mr Pulham led a series of trials and studies over a three-year period. This work has transformed the Air Warfare Centre’s (AWC) ability to predict visual and acoustic detection ranges thus enabling the AWC to provide sound advice to the front line for mission planning that has enhanced operational effectiveness.

Mr Pulham completed a Master’s (Honours) Degree in Aerospace Engineering at the University of Manchester in 2004 and joined the AWC in 2005. Initially he worked in 41 (Reserve) Squadron at RAF Coningsby as an operational analyst. His role involved the assessment of Tornado GR 4 systems and weapons, with the results contributing directly to enhancing front line capability. In 2010 he transferred to the AWC Operational Analysis Operations Team at RAF Waddington as the senior analyst in the uninhabited air systems domain.

Team Specialist Gold Award

Awarded for exceptional work that has led to substantial advances or contributions within specialist aerospace disciplines.

Environmentally Responsible Aviation Project Team

The Team Specialist Gold Award is awarded to the Environmentally Responsible Aviation (ERA) team for significant technical achievement during a six-year programme of work into maturing technologies to reduce the environmental impact of aviation. Engine and airframe technologies matured during the project have the potential to reduce the carbon output of the US aircraft fleet by 1,848bn pounds of carbon dioxide between 2025 and 2050. The published impact statements also suggest a saving of $255bn over the same period.

A small ERA team at National Aeronautics and Space Administration, Langley, led by Dr Fayette Collier FRAeS co-ordinated the ERA project that was structured and funded as a public-private partnership between government laboratories, aviation industry partners and academia. The project comprised studies, analyses and full scale flight demonstrations of technologies such as new advanced geared turbofan designs and new high-lift configurations with reduced noise signatures from wing flaps and landing gear.

Fay is currently the Project Manager of the Environmentally Responsible Aviation Project within NASA’s Integrated System Research Program.

In this capacity, he directs the planning and execution of NASA’s integrated system research project focused on the subsonic transport sector, working in partnership with Industry, FAA, AFRL and other government agencies. The technology development project is focused on research, development and integration of engine and airframe technologies that will enable dramatic improvements in noise, emissions, and performance characteristics of future subsonic aircraft operating in the air transportation system. ERA is currently closing out ERA Phase II, where 8 Integrated Technology Demonstrations were successfully completed. The six-year, $420M project will closeout in March 2016.

Dr. Collier is a graduate of Virginia Tech (Aerospace Engineering, B.S., 1981, M.S., 1982, Ph.D., 1988) and the Massachusetts Institute of Technology (M.B.A., 1997) where he participated as a NASA Sloan Fellow. He serves on numerous committees for the Agency, including the AIAA Honors and Awards Committee, the AIAA International Program Committee, and the AFRL Fixed Wing Executive Council, and he was a contributor to the development of the National R & D Plan for Aeronautics. Dr. Collier is an Associate Fellow of the AIAA.
Team Specialist Bronze Award

Awarded for work of merit, which has led to advances or contributions within specialist disciplines in the aerospace industry.

OPTIMUS Team, US Air Force Research Laboratory

Wright-Patterson Air Force Base

The Team Specialist Bronze Award is awarded to the OPTIMUS team at the Air Force Research Laboratory for the significant developments it has made towards the multi-disciplinary design optimisation of complex aerospace vehicles and systems. In particular, the team has developed a framework that incorporates high fidelity physics at a conceptual and mission-based level. The key step is the inclusion of a number of different tools using an Effectiveness Based Design methodology. The approach offers substantial decreases in design timescale and costs or increases in performance compared with the traditional approach. The team's methodology and tools have been adopted by the three leading US aircraft manufacturers.

The OPTIMUS team was formed in 2013 to address technical gaps in the performance of design studies for next-generation aircraft such as Efficient Supersonic Air Vehicles. The team is led by Dr Darcy L Allison; other members are Dr Edward J Alyanak, the founder of Effectiveness Based Design, and Mr Steven Iden.

Specialist Group Awards

The Specialist Group Awards are proposed by the Chairmen of the various Royal Aeronautical Society Specialist Groups for individuals who have made an important contribution within a specialism.

Flight Simulation Medal

Awarded for a significant long-term contribution, in an international context, in the field of flight simulation.

Professor David Allerton

Emeritus Professor and Chair in Computer Systems Engineering, University of Sheffield

Professor Allerton is recognised for his influential contribution to the development and exploitation of flight simulation research, which has underpinned the modern approach to flight simulation as a basis for flight crew training. His work at Southampton, Cranfield and Sheffield Universities has brought him into direct contact with several generations of graduates and engineers who have all been witness to his enthusiasm and willingness to share knowledge. He is the author of the internationally recognised standard reference work “Principles of Flight Simulation, a comprehensive guide to simulator design”.

After obtaining a PhD at Trinity College Cambridge, Professor Allerton joined Marconi Space and Defence Systems working on real-time software for guided weapons. He moved to the University of Southampton in 1981, where he was a Lecturer and Senior Lecturer in Electronics. He was appointed as Professor of Avionics in the College of Aeronautics at Cranfield University in 1991 before moving to the Chair in Computer Systems Engineering at the University of Sheffield in 2002, where he is Emeritus Professor and Chair in Computer Systems Engineering Research.
Flight Operations Medal

Awarded for outstanding long-term contribution, achievement or service in the field of flight operations.

Flight Sergeant Joseph Sinnott RAF
Formerly Flight Operations Manager, No 17 (Reserve) Squadron, Royal Air Force, Edwards Air Force Base

The Flight Operations Medal is awarded to Flight Sergeant Sinnott for developing a Flight Operations model for the F-35B aircraft that will be critical to the UK’s sovereign capability. Flight Sergeant Sinnott was the first Flight Operations Manager on No 17 (Reserve) Squadron RAF for 2½ years until February 2017. The squadron is responsible for conducting the operational test and evaluation of the UK F-35B Lightning II aircraft at Edwards Air Force Base in California. As part of a multi-national team, Flight Sergeant Sinnott, with great practical and diplomatic skill, single-handedly designed a UK-style operations framework from scratch. This was instrumental in the daily successes of both the UK trials and the wider joint operational trials involving the US, Australian and Dutch Services.

Flight Sergeant Sinnott joined the Royal Air Force in 1994. Over the years, he has worked in numerous Flight Operations and Air Traffic environments covering a multitude of rotary and fixed wing aircraft. He has also deployed on several detachments and operational tours both in the UK and overseas. Additionally, he has served with the RAF Mountain Rescue Service, trekking the mountains of England, Scotland and Wales. His service has included instructing at the Flight Operations Training School, educating the next generation of recruits for tomorrow’s RAF. Today he serves at No 1 Aeronautical Information and Documents Unit at RAF Northolt.

Avionics and Systems Specialist Group Award

Squadron Leader Robert Perrins RAF
SO2 Operations & Requirements Capture, Typhoon Mission Support Centre, RAF Coningsby

The Avionics and Systems Specialist Group Award for 2017 is awarded to Squadron Leader Perrins in recognition of his work in the field of operational test and evaluation associated with the latest software intensive air combat systems. He is recognised as an expert in the development and realisation of electronic warfare capability and defensive aids systems, which feature increasingly as vital elements of the operational effectiveness of combat aircraft. Currently Squadron Leader Perrins is engaged with Typhoon enhancement and has been instrumental in the cost and time effective integration of ground-based and airborne trials of enhanced functional capabilities supporting Typhoon’s multi-role operational capability.

Squadron Leader Perrins graduated from Southampton University in 1985 and immediately embarked on a career in the RAF as a navigator. From 1987 he served on the F-4 Phantom and later the Tornado F3 where he was qualified as an Electronic Warfare Officer and Instructor, an eight-ship aircraft lead and an Air Combat Leader. While flying the Tornado F3 he served in the Middle East on Operation RESINATE and in the Falkland Islands. In 2001 he graduated from the GD Aerosystems course with an MSc. Since then he has mostly served as an electronic warfare specialist in a variety of roles at the Air Warfare Centre, the Air Warfare School and at HQ Strike Command. In 2010 he completed a six-month tour of duty in the ISAF Joint HQ in Kabul. Following this he spent three years on the staff of the Aerosystems Course. He took up his current role at RAF Coningsby in 2015. He is a Fellow of the Royal Institute of Navigation.
**The Turnbuckle Award**

Awarded for long and valued service in the field of aircraft maintenance.

**Lieutenant Commander Dale Collins MRAeS RN**

**F-35B Air Engineering Officer, JSF Integrated Test Force, Naval Air Station Patuxent River**

Lieutenant Commander Collins is awarded the 2017 Turnbuckle Award for his contribution to the development of effective front line operations for Merlin, Scan Eagle and F-35B Lightning II aircraft. His extensive experience of flight operations, both rotary and fixed wing, has enabled him to make a significant contribution to maintenance practice and airworthiness procedures throughout the fleet. He wrote the Royal Navy’s first management exposition for fixed-wing aircraft, responding to the requirements of the Military Aviation Authority. His professional competence was so widely recognised at Patuxent River that he was assigned by the US Navy to lead the logistics test and evaluation task on board USS America during the final period of US Marine Corps F-35B testing.

Lieutenant Commander Collins joined the Royal Navy in 1981, as a junior mechanic. He was commissioned in 2000 and gained his certificate of competence as an Air Engineer Officer the following year. Lieutenant Commander Collins has served afloat on RN and Royal Fleet Auxiliary ships, and the Royal Netherlands Navy ship Zuiderkruis. He took part in Operations BOLTON, TELIC and HERRICK. Ashore, he has served on several naval air stations and at MoD Abbey Wood. During his time at Abbey Wood he completed an MSc (Eng) from Kingston University. In 2015 Lieutenant Commander Collins was appointed as the Air Engineer Officer and First of Class Trials Project Officer for the UK F-35B activity based at Naval Air Station Patuxent River.

**Aerospace Medicine Specialist Group Award**

**Dr James David Stevenson FRAeS**

**Medical Officer Instructor, RAF Centre for Aviation Medicine, RAF Henlow**

The 2017 Aerospace Medicine Specialist Group Award is made to Dr David Stevenson, a highly respected Medical Officer Instructor at the RAF Centre of Aviation Medicine, to recognise his preeminent leadership over two decades in human factors training through the development and delivery of aircrew-orientated teaching materials. Latterly, he has played a key role in the development of a European-wide human factors training syllabus for operators of remotely piloted aircraft systems.

Dr Stevenson had a distinguished career as a Flight Surgeon in the United States Air Force, including residencies in Aerospace Medicine at the Harvard School of Public Health, Boston, and Aerospace Medicine Training at Brooks Air Force Base, Texas. After serving as the Chief Executive Officer of the USAF clinics at RAF Bentwaters and then RAF Alconbury, he retired from the USAF in 1995 and worked in the UK National Health Service at Hinchingbrooke and Addenbrooke’s Hospitals. In 1998 he returned to his roots as a specialist in aviation medicine when he joined the RAF Centre for Aviation Medicine, Henlow, as a Medical Officer Instructor.
**Geoffrey Pardoe Space Award**

**Mr Paul Flanagan**
Secretary General UKspace

The Geoffrey Pardoe Space Award is made to Mr Paul Flanagan in recognition of his leadership of UKspace and his achievement in stimulating the development of a joint private/public strategy – the Space Innovation and Growth Strategy – to underpin long-term growth in Britain’s space sector. Key achievements of the strategy are the creation by the UK Government of the UK Space Agency and the Satellite Applications Catapult. Mr Flanagan’s initiative to create a forum for small and medium enterprises has now attracted more than 40 companies and has much simplified the Government’s engagement with the wider industry. His recognition of the potential for the power of the City to be harnessed to help grow the UK’s space business resulted in the creation of the Satellite Finance Network.

Mr Flanagan was educated at Oxford and York Universities, the Royal Military Academy, Sandhurst, and the Army Staff College. He was commissioned into the Royal Army Ordnance Corps in 1973, serving in Northern Ireland, the British Army of the Rhine, as a member of the Mission to the Soviet Forces in Germany (BRIXMIS) and with the training team established in post-independence Zimbabwe. He retired with the rank of brigadier in 2005 from his post as the Team Leader of the Logistic Applications Integrated Project Team in the Defence Logistics Organisation. In 2006 he became the Secretary General of UKspace, the trade body for the UK space and satellite industry.

**R P Alston Medal**

**Mr David Lee MRAeS**
Formerly Flight Dynamics Tutor, Empire Test Pilots’ School, MoD Boscombe Down

The R P Alston medal is awarded to Mr David Lee in recognition of his outstanding contribution to the training of test pilots and flight test engineers at the Empire Test Pilots’ School (ETPS). Since joining the school in 2001, David has been a key figure in the training of test pilots and flight test engineers. His knowledge and exceptional ability as an educator have been fundamental to ensuring that ETPS graduates are globally acknowledged to be of the highest calibre.

Mr Lee was educated at Portsmouth Northern Grammar School, Bristol University and the RAF College, Cranwell. During his early service in the RAF he worked on Lightning and HS125 (Dominie) aircraft, the Bloodhound SAM system, MT vehicles and all associated ground support equipment. On promotion to squadron leader in 1983 he joined No 208 Squadron at RAF Lossiemouth to support operations of 15 Buccaneer and two Hunter aircraft. He left No 208 Sqn in 1986 for a loan service tour in Oman. His final RAF tour was with the Inspectorate of Flight Safety in London. He then re-trained as a lecturer delivering Aerospace Engineering courses until 2001 when he joined the Empire Test Pilots’ School as a member of the rotary-wing course delivery team until his retirement in 2017.
Young Persons’ Awards

The Society confers additional awards recognising achievements by young people, both individuals and teams.

Young Persons’ Achievement Award

Awarded to an individual or team for exceptional achievement or contribution in aerospace.

Mr Riccardo Patriarca
Post-Graduate Student, Sapienza University of Rome

Mr Patriarca is awarded the Young Persons’ Achievement Award in recognition of his ground-breaking research contributions on modelling complex systems (mainly air traffic management) for risk and safety management purposes. His innovative methodology is based on Aerospace Performance Factor, recognising that maintaining a safe environment requires that attention be paid to both low-consequence occurrences as well as high-consequence accidents. It has been validated in several peer-reviewed publications and seems likely to improve risk and safety management in the aerospace and other transport domains.

Mr Patriarca is a PhD candidate in Industrial and Management Engineering and an Assistant Lecturer at Sapienza University of Rome. He holds an MSc in Aeronautical Engineering (2014) and a BSc in Aerospace Engineering (2011). In addition to his primary research, he is also interested in supply chain and quality management for the airport and airline industry. He is the author of more than 20 publications in peer-reviewed journals and conference proceedings. He is involved in international research collaborations with: ANACNA (the Italian association of air traffic management professionals); Duke-NUS Medical Centre in Singapore; City, University of London; Lund University; and Prague CVUT University.

Alan Marsh Award

Awarded to a young person showing technical promise, where five hours of helicopter or fixed wing flying tuition will enhance their career.

Mr Joseph Allen
Rotor Analyst, Leonardo Helicopters (UK), Yeovil

Mr Allen is awarded the Alan Marsh Award for showing exceptional professionalism and maturity so early in his career. He has an appetite for learning and has demonstrated the potential to excel in the field of rotor design and development.

Mr Allen graduated from Bath University in Aeronautical Engineering in 2012. He completed the Leonardo Helicopters (UK) graduate engineer development scheme and is now working as a Rotor Analyst on a range of projects in the Rotor Systems Department. This has included assessment of loads for new aircraft variants and the study of novel technologies that can be introduced to enhance structural performance. He is working towards professional recognition. During his time with Leonardo he has taken part in extramural STEM and charity activities. He also organised monthly Engineering Lunchtime Forums on a wide range of subjects.
Mr Chris Clay
Mr Clay presented his paper titled ‘Enabling Technologies for Small UAVs – or – How I Learned to Stop Worrying and Love Drones’ to the Derby Branch.

Mr Clay is on the Rolls-Royce Graduate scheme, currently developing robots for use in nuclear power stations. In his spare time, he enjoys building and flying drones, playing badminton and cycling. Unfortunately, his hobbies also include attempting to retrieve his drones from trees and rebuilding them.

Mr Alex Godfrey ARAeS
Mr Godfrey presented his paper titled ‘Space Rider - Developing ESA’s Autonomous Space Vehicle Capability’ to the Bedford Branch.

Mr Godfrey is a Systems Engineer working at Lockheed Martin UK, Ampthill as engineering lead on civil space programmes. He has technically led the pursuit and execution of new business, most notably the development of Mid-Air Retrieval, Landing Gear and Aerodynamic Surface Control System designs for the European Space Agency’s autonomous reusable spacecraft programme, Space Rider. He recently led technical analysis of Radioisotope Thermoelectric Generators and studies into the integration of a gridded ion engine onto the A2100TR communications satellite. He received a first class MEng degree in Spacecraft Systems Engineering from the University of Southampton and last year won the RAeS Young Persons’ Achievement Award. He is a member of the RAeS Cranfield Branch committee and is developing a local robotics programme to try and inspire students to pursue careers in STEM subjects.

Mr Jamie Bignell
Mr Bignell presented his paper titled ‘Amateur Water Rockets: Lemonade Bottle Rocket Science’ at the Yeovil Branch annual Young Persons’ Lecture Competition.

Mr Bignell is attending the University of Bath, studying Electronic Engineering with Space Sciences. During his University studies he has been able to return to his 6th Form Academy to help run the school’s STEM outreach workshops for years 5 and 6. He attends the Bath, Wiltshire & North Dorset Gliding Club with the intention of learning to fly a glider. Mr Bignell holds the Gold Duke of Edinburgh Award and plays the violin. As a long-standing member of his local Scout troop he attended the 2015 World Scout Jamboree in Japan, representing Somerset and the UK.

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Ms Lucie Cordier

Ms Cordier presented her paper titled ‘Space Traffic Management’ to the Stevenage Branch.

Ms Cordier is a lawyer currently working for Airbus Defence and Space. She joined the Space Generation Advisory Council (in Support of the United Nations Programme on Space Applications) Legal Team in 2017. During this year she helped to organise the 2nd European Space Generation Workshop in collaboration with the European Space Agency. She passed the French Law Bar and graduated from the University Pantheon Paris II with a Master’s Degree in European Business Law and from Paris Saclay University with a Master’s degree in Space and Telecommunication Law. She undertook an internship at SNCEMA where she had her first experience with export controls. After working in this field in law firms, in ADIT (the French Corporate Intelligence firm) and in Thales, export control is now her area of expertise.

Mr Colin Field MRAeS

Mr Field presented his paper titled ‘Unmanned Aerial Vehicles & Artificial Intelligence – What Next?’ to the Bristol Branch.

Mr Field first aspired to a career in Unmanned Vehicles in 2005 when he became involved in aero modelling and then gliding. Studying Aerospace Engineering at the University of Bath and taking an internship at Rolls-Royce led to him working on the ASTRAEA UAV programme and ultimately joining Rolls-Royce Defence Aerospace Future Programmes to continue to develop his specialism. Now a Principal Engineer with the company, Colin has recently transferred to Rolls-Royce Marine to take ownership of the Systems Engineering work on an Autonomous Ships programme. He is also chartered through the RAeS.

Mr Calum McFarlane

Mr McFarlane presented his paper titled ‘Hand Held Mission Displays’ at the Yeovil Branch annual Young Persons’ Lecture Competition.

Mr McFarlane passed out of Strathclyde University in 2015 with an MSc in Electronic and Electrical Engineering. During his time at Strathclyde he undertook volunteer intern roles with the Africa Inland Mission AIR Avionics workshop and in the research departments of the University. He joined Leonardo Helicopters as a post-graduate trainee upon graduation and on completion of his training in 2017 he joined the aircraft mission system software engineering team at Yeovil. As a trainee at Leonardo he was closely engaged in the company-sponsored extra-mural association with local schools.

NE Rowe Certificate of Merit — Under 22 Age Group

A Certificate of Merit is awarded in both age groups to recognise presentations and/or papers of a high standard.

Ms Bettina Islam

Ms Islam presented her paper titled ‘Water Ingress in Composite Materials’ at the Manchester Branch.

Born in France and passionate about aviation, Ms Islam decided to challenge herself in addition to gaining international exposure by studying as an undergraduate in the UK. She achieved a first class BEng Aeronautical Engineering degree and is now studying for an MSc degree in Aerospace Engineering. She first encountered the issue of water ingress in composites materials during her year-long internship as an Aircraft Engineer at Lufthansa Technik, Malta.
Mr Joshua Thomson-Smith

Mr Thomson-Smith presented his paper titled ‘The Dawn of the Drone’ to the Derby Branch.

Mr Thomson-Smith is in the final year of a Master’s degree in Mechanical Engineering at the University of Birmingham. He returned to University following a 14-month internship in the Turbines Design team at Rolls-Royce. He took a special interest in the stress function during that placement and he intends to develop that interest during his career. His final-year project concerns carbon matrix composite materials.

2016 Written Paper Prizes

The Royal Aeronautical Society Written Paper Prizes are awarded annually for the best papers published in The Aeronautical Journal by the Society during the previous calendar year. Awards can be conferred at Gold, Silver or Bronze level. The Written Paper Prizes are presented following the approval of the Council of the Royal Aeronautical Society on the basis of recommendations from the RAeS Medals & Awards Committee, supported by the Editor-in-Chief of The Aeronautical Journal. The Society recognises the achievements, innovation and excellence of both individual and multiple authors.

Gold Award


Dr Philippe Spalart

Dr Spalart studied Mathematics and Engineering in Paris, and obtained an Aerospace PhD at Stanford/NASA-Ames in 1982. While still at Ames, he conducted extensive Direct Numerical Simulations of transitional and turbulent boundary layers. Moving to Boeing in 1990, he created the Spalart-Allmaras one-equation Reynolds-Averaged Navier-Stokes (RANS) turbulence model. He wrote a review and co-holds a patent on airplane trailing vortices. In 1997 he proposed the Detached-Eddy Simulation approach, blending RANS and Large-Eddy Simulation to address separated flows at high Reynolds numbers at a manageable cost. Recent work includes refinements to the Spalart-Allmaras model, computational aeroacoustics, and theories for aerodynamics and turbulence.
Dr Venkat Venkatakrishnan

Dr Venkatakrishnan received his undergraduate degree from the Indian Institute of Technology, Madras and received his PhD from Princeton University in Mechanical and Aerospace Engineering. He has worked at NASA Research Centres and the Boeing company, and is currently employed at Siemens PLM software. He has contributed in the areas of finite volume and finite element discretizations, robust solver technologies, and adaptive gridding.

Silver Award


Professor Jeffrey A Jupp FREng FRAeS

Professor Jupp graduated from Queens’ College Cambridge in 1964 with first class honours in Aeronautical Engineering. He worked at Hawker Siddeley Aviation Hatfield on civil aircraft aerodynamic wing design before moving with the Airbus project to British Aerospace at Filton. He was Chief Engineer for the ‘Common Wing’ for the A330 and A340 aircraft, and became Engineering Director in 1993, retiring as Technical Director Airbus UK in December 2001. He was awarded the Royal Aeronautical Society Gold Medal in 2002. He continued to assist Airbus until 2015. He is a visiting professor at the University of Bath and has served on both the RAeS Air Travel – Greener by Design Group and the Medals and Awards Committee.

Silver Award


Professor Luis M B C Campos FRAeS

Dr Campos is a Professor at the Instituto Superior Técnico (IST), Lisbon Technical University where he co-ordinates the Aerospace Engineering Degrees and the scientific area of Applied and Aerospace Mechanics. He is also Director of the Center for Aeronautical and Space Science and Technology. His teaching and research areas have included mathematics, physics, acoustics and aeronautics. He graduated in Mechanical Engineering from the IST in 1972 and was awarded a PhD on ‘Waves in Fluids’ from the Engineering Department of the University of Cambridge in 1978.
Professor Joaquim Guerreiro Marques

Dr Marques is an Associate Professor in the Department of Engineering at the Atlântica University Higher Institution (AUHI) and co-operates in the Center for Aeronautical and Space Science and Technology. He was awarded his BSc and his PhD in Aerospace Engineering by Instituto Superior Técnico. Dr Marques currently teaches Introduction to Aeronautical Engineering, Aircraft Performance, Aircraft Stability and Control, Air Traffic Management and Aircraft Design, and he is one of the coordinators of the Aeronautical Engineering degree at the AUHI. His current research focuses on aircraft collision risk assessment, aircraft wake vortex models and new aircraft configurations.

Bronze Award


Dr Danielle Moreau

Dr Moreau is an Australian Research Council Discovery Early Career Research Fellow and lecturer in the School of Mechanical and Manufacturing Engineering at the University of New South Wales, Sydney. She obtained her Bachelor of Engineering (Hons) and PhD from the School of Mechanical Engineering at the University of Adelaide in 2005 and 2010, respectively. Dr Moreau’s research focuses on the understanding and control of flow-induced noise produced by aerofoil and bluff body geometries.

Dr Con Doolan

Dr Doolan obtained an Honours degree in Mechanical Engineering and a PhD in Aerospace Engineering from the University of Queensland. After working at the University of Glasgow, the Australian Department of Defence and the University of Adelaide, he is now an Associate Professor at the University of New South Wales, Sydney where he leads the Flow Noise Group. His research is focussed on aeroacoustics, or the production of sound from unsteady fluid flow. Current projects include the control of aerofoil noise using poroelastic materials, wind turbine noise and understanding the acoustics of supersonic, reacting flows.
Bronze Award

Awarded to Y Cao, J Huang, Z Xu and J Yin for their paper titled ‘Insight into rime ice accretion on an aircraft wing and corresponding effects on aerodynamic performance’. The Aeronautical Journal, July 2016, Vol 120, No 1229, p 1101.

Professor Yihua Cao
Dr Cao is a Professor at Beijing University of Aeronautics and Astronautics, China. In 1995 he was selected as DAAD–K C Wong Research Fellow. He studied from 1996 to 1997 at the Institute of Flight Mechanics of the Technical University of Braunschweig, Germany. He has worked in the Faculty of Engineering of Monash University, Australia as a special visiting professor. He also spent a period as a senior visiting fellow of the University of California at Davis, USA. His research interests include fluid mechanics, aerodynamics, fluid/solid coupling, aeroelasticity, flight dynamics and flight control and aircraft airworthiness. He is the author of more than 100 scientific papers in many leading journals.

Dr Junsen Huang
After his graduation from the Department of Aircraft Design, Beijing University of Aeronautics and Astronautics, Dr Huang devoted himself to the design and optimization of modern aircraft and gained rich experience. His research involves the numerical simulation and real-world evaluation of aerodynamic performance within normal and harsh environments.

Mr Zhengyu Xu
Mr Xu is a PhD candidate from the Department of Aircraft Design, Beijing University of Aeronautics and Astronautics. His research interests lie in the design and evaluation of helicopter tiltrotors, helicopter flight mechanics and the numerical simulation of Eulerian multiphase flow.

Mr Jun Yin
Mr Yin earned his Master’s degree in Aeronautical Engineering from the Department of Aircraft Design, Beijing University of Aeronautics and Astronautics. His research focuses on computational fluid dynamics, aircraft ice accretion and aerodynamic performance evaluation.
Bronze Award


Dr Vasileios A Pastrikakis
Dr Pastrikakis studied mechanical engineering and aeronautics at the University of Patras in Greece, graduating in 2011. In 2012 he joined the aerospace department of Liverpool University in the rotorcraft centre, which was supported by Leonardo helicopters. He completed his PhD research, which focused on helicopter rotor performance enhancement by the use of active flow control mechanisms. Dr Pastrikakis then joined Airbus Group Innovations as a computational fluid dynamics specialist where he worked on low fidelity tools development, future aircraft concepts and, in particular, on folding wing-tip configurations. Currently, he is employed by SoftInWay, a US research and development company, acting as a consulting engineer on turbomachinery design and a primary contact for European projects in several industries including aerospace, oil & gas, and power generation. At the same time he is pursuing an MBA degree at Imperial College Business School.

Dr Rene Steijl
Dr Steijl received a Master’s degree in Aerospace Engineering from Delft University of Technology in 1997, with a specialization in high-speed aerodynamics. Then, from 1997 to 2001, he worked on a PhD research project focused on the development of higher-order accurate methods for computational fluid dynamics (CFD) analysis of the development and breakdown of vortex wakes of aircraft. He was awarded the PhD degree in December 2001. After a one-year stay at the Technical University of Munich as scientific assistant, he moved to the University of Glasgow in 2004 to work on rotorcraft aerodynamics as a post-doctoral researcher. From 2005, he worked at the University of Liverpool, first as a post-doctoral research assistant and from 2010 as a lecturer. From 2015, he has been at the University of Glasgow as senior lecturer in Aerospace Engineering with a research focus on CFD, multiphysics methods and high-speed aerodynamics.

Professor George N Barakos
Professor Barakos obtained a Diploma in Engineering from the National Technical University of Athens in 1982, a Master of Applied Science in Engineering from the University of Ottawa in 1994 and a PhD from the Department of Mechanical Engineering of the University of Manchester Institute of Science and Technology in 1999. As a post-doctoral researcher he worked on computational fluid dynamics (CFD) and fluid-structure interaction problems at the Engineering Department of Queen Mary and Westfield College and at the Department of Mechanical Engineering at Imperial College (Rolls-Royce Vibration Technology Centre). In 2001 he was appointed Lecturer at the Aerospace Department of the University of Glasgow and established research in CFD, rotorcraft, parallel computing, turbulence modelling, fluid structure interaction and unsteady aerodynamic flows. He was promoted to Senior Lecturer in 2005. In November 2005, he joined the Engineering Department of Liverpool University, where the CFD laboratory of Glasgow was relocated. In addition to rotorcraft, Professor Barakos continued the development of CFD methods for wind turbines and weapon bay flows. He was promoted to Reader in November 2007 and became Professor in 2009.
Young Persons’ Written Paper Prize


Mr Guillermo Durango

Mr Durango graduated with a first class MEng degree in Aerospace Engineering at the University of Bath in 2013 and then completed an MSc in Aerospace Vehicle Design at Cranfield University. He has worked in Systems Integration & Test within SAFRAN Landing Systems UK, where he assessed the performance and dynamics of undercarriage for aircraft such as the Airbus A350 XWB, tested systems of the gear for the Bombardier Global 7000 and 8000 aircraft in Canada, and carried out research for the landing gear of the future. Recently he has joined the start-up Lilium in Munich, where he works as a Modelling and Simulation Engineer in the development of an all-electric vertical take-off and landing air vehicle to provide efficient and on-demand personal transportation.

Dr Craig Lawson and Dr Amir Shahneh did not wish to provide biographies and pictures.
Roll of Honour

Celebrating the winners of the world’s most prestigious and long-standing Honours, Medals and Awards.

Honorary Fellows

1917 P Y Alexander
1917 W H Dines FRS
1917 Lt Gen Sir David Henderson
1919 Captain J Laurence Pritchard
1919 Maj B F S Baden-Powell
1920 Wg Cdr T O’B Hubbard
1920 Professor J C Hunsaker
1920 Maj Gen the Rt Hon Sir Frederick Sykes
1920 Air Marshal Sir Hugh Trenchard
1923 Captain J Laurence Pritchard
1926 Sir Alan J Cobham
1929 Maj Lester D Gardner
1933 Orville Wright
1933 Griffith Brewer
1940 Sir Frank S Spriggs
1942 Dr T P Wright
1943 E D Warner
1944 The Rt Hon Winston S Churchill
1945 Professor L Barstow
1948 Sir Geoffrey Taylor
1948 Sir Alliott Verdon-Roe
1948 Sir Hugh Oswald Short
1949 Lord Brabazon of Tara
1949 Louis Breguet
1949 Sir Frederick Handley Page CBE
1950 Robert Blackburn
1950 Sir Richard Fairey MBE
1950 Dr Theodore von Kármán
1950 Sir Francis K McLean
1950 Mervyn O’Gorman
1950 Sir Thomas Sopwith CBE
1951 Professor Sir Bennett Melvill Jones
1951 Sir Henry T Tizard
1951 C C Walker
1953 Sir Geoffrey de Havilland CBE
1953 Sir Arthur Gouge
1953 Lord Hives MBE
1953 HRH The Duke of Edinburgh
1954 Sir Roy Fedden MBE
1954 Air Cdre Sir Frank Whittle
1955 Igor I Sikorsky
1955 H Grinstead CBE
1956 Sir Roy Dobson CBE
1956 Dr Hugh L Dryden
1957 HRH The Prince of The Netherlands
1958 Sir Richard Southwell
1959 Professor J Ackeret
1959 Sir William Farren MBE
1959 S B Gates OBE
1960 Sir George Edwards CBE
1960 Professor W J Duncan CBE
1961 Sir Sydney Camm CBE
1961 J D North
1962 N E Rowe CBE
1962 Sir George Gardner
1963 Sir Alfred Pugsley OBE
1963 William Littlewood
1964 Sir Denning Pearson
1964 L P Coombes CBE
1965 Sir Arnold Hall
1965 B S Shenstone
1965 J Stack
1966 Air Commodore F R Banks OBE
1967 Sir George Dowty
1967 Professor Dr H J van der Maas
1967 Dr Barnes Wallis CBE
1968 Professor J A J Bennett
1968 Professor Dr G Gabrielli
1968 G R McGregor OBE
1969 Dr R R Gilruth
1969 Lord Kings Norton
1969 Sir Archibald E Russell CBE
1970 Sir Robert Cockburn
1970 Dr C S Draper
1970 Academician A N Tupolev
1971 Professor S Goldstein
1971 Dr Henri Coanda
1972 Dr S G Hooker CBE
1973 D A M Ballantyne
1973 Professor E Carafoli
1973 Professor A R Collar
1973 Sir James Martin
1973 D W Douglas
1974 S D Davies CBE
1975 C Abell OBE
1975 H A L Ziegler
1975 D r E S Mout CBE
1976 Sir Keith Granville CBE
1976 Sir William Hildred OBE
1976 Sir Morien Morgan
1977 Sir William Hawthorne
1977 A A Rubbra CBE
1977 Sir Lawrence Wackett
1978 HRH The Prince of Wales
1978 Dr O Nagano
1978 Dr W Tye CBE
1979 Professor D Keith-Lucas
1979 J Szychowski
1980 E H Heinemann (USA)
1980 Sir Frederick Page CBE
1980 Sir Peter Masefield
1981 Sir Robert Hunt CBE
1982 H Davies
1983 R H Betelille
1983 Professor Dipl-Ing G Madelung
1984 Professor A D Young OBE
1984 Sir Philip Foreman CBE
1985 J F Sutter
1985 HM King Hussein of Jordan
1985 Sir Roy Sisson
1986 Air Cdre Sir Vernon Brown OBE
1986 Professor J H Argyris
1986 Dr K G Wilkinson CBE
1987 F Cereti
1988 Professor H Ashley
1988 G P Dollimore CBE
1989 Admiral Sir Raymond Lygo
1989 Air Marshal Sir Charles Pringle
1989 F d’Allest
1990 P A Hearne
1990 Sir James Lighthill
1990 Air Cdre Sir Geoffrey Roberts CBE
1991 Sir Ralph Robins
1991 Professor E J Richards
1992 Professor Em Dr-Ing K H Doetsch
1992 Sir John Charnley
1992 G H Lee
1993 HRH The Duke of Kent
1993 Professor Dr-Ing B J Habibie
1993 R W Howard CBE
1994 Baroness Platt of Writtle CBE
1994 Lord Tombs of Brailes
1994 S Gillibrand CBE
1995 C H Kaman
1995 Professor J L Stollery CBE
1995 R W R McNulty CBE
1996 P M Condit
1996 Sir Richard H Evans CBE
1996 Sir John Charnley
1997 J Pierson
1997 N Augustine
1997 J Cunningham CBE
1998 M Flanagan
1998 R Belyakov
1998 R Yates
1998 S Ajaz Ali
1999 A Caporaletti
1999 D Burrell
1999 Dr R Collette
2000 N Barber
2000 Professor Ing E Vallerani
2000 Sir Donald Spiers
2001 A C Welch OBE
2001 Dr O Nagano
2001 Dr W Tye CBE
2001 Sir Donald Spiers
2001 A C Welch OBE
2001 Dr B Halse
2001 J-P Béchat
2001 Sir Arthur Marshall CBE
2002 A Mulally
2002 P C Ruffles CBE
2003 Professor Sir John Horlock
2003 J Thomas
2017 Honours, Medals & Awards

Honorary Fellows

2003  A A D Henshaw MBE
2004  Captain M Brown CBE
2005  Sir Michael Cobham CBE
2006  General Charles E Yeager
2006  Air Vice-Marshal Professor R A Mason
2007  A Garcia
2008  Professor B Skews
2009  W K Maciver CBE
2009  G Page CBE
2012  Ing S Pancotti
2012  Professor M Gaster
2013  Professor K Ridgway CBE
2013  Professor R J Stalker
2014  C P Smith CBE
2014  Professor B Cheng
2015  Professor Sir Martin Sweeting OBE
2015  J-P Herteman
2015  Professor R K Agarwal
2016  P Fabre
2016  Sir Michael Marshall CBE
2016  Major T N Peake CMG
2016  Dr D W Richardson
2016  M J Ryan CBE
2017  Professor R Bor

Honorary Companions

1920 Charles Alma-Baker CBE
1945  A N D Smith (ex Hon Accountant)
1950  Lord Douglas of Kirtleside
1950  Sir Alec Coryton
1957  Miss B Voyce
1958  W E Nixon
1959  Gustavus Green
1959  E C Bowyer CBE
1959  Sir William Mildred OBE
1961  Sir John N Toothill CBE
1962  J B Stoker
1962  F E Barwood MBE
1963  C H Gibbs-Smith
1963  C L Ashley MBE
1965  Lord Wilberforce OBE
1965  L A Wingfield
1965  T James
1965  J Bradbrook MBE
1966  J Davison OBE
1970  H G Alston
1970  Sir Anthony Milward CBE
1971  W W Straight CBE

RAeS Gold Medallists

1909  The Wright Brothers
1910  Professor O Chanute
1915  E T Busk
1915  Professor G H Bryan
1926  Dr F W Lanchester
1927  Professor L Prandtl (HF)
1937  Juan de la Cierva (posthumously)
1945  Air Cdre F Whittle (F)
1946  Professor L Barstow (HF)
1947  Sir B Melville Jones (F)
1950  Sir Geoffrey de Havilland (F)
1951  W G A Perring (F)
1952  Dr T von Kármán (HF)
1953  E R Reif (Fellow)
1954  Sir Geoffrey Taylor (HF)
1955  Lord Hives (HF)
1956  Sir William S Farren (F)
1957  Professor J C Hunsaker (HF)
1958  Sir Sydney Camm (F)
1959  M Dassault
1960  Sir Frederick Handley Page (HF)
1962  Sir Arnold Hall (F)
1963  H Constant (F)
1964  R E Bishop (F)
1965  Professor M J Lighthill (F)
1966  Professor A R Collar (F)
1967  Dr S G Hooker (F)
1968  A A Rubbra (F)
1969  Dr D Küchemann (F)
1970  W Tye (F)
1971  Sir Moriern Morgan (F)
1972  Professor A D Young (F)
1973  H Davies (F)
1974  F W Page (F)
1975  Professor D Keith-Lucas (F)
1976  Dr W J Strang (F)
1977  Sir Clifford Cornford (F)
1978  Dr Ludwig Bolkow
1979  Professor P R Owen (F)
1980  W J Charnley (F)
1981  A G Newton (F)
1982  R Hills (F)
1983  Professor G M Lilley (F)
1984  P H J Young (F)
1985  I R Yates (F)
1986  R S Hooper (F)
1987  A B Haines (F)
1988  Professor G A Jameson
1989  Sir Donald Spiers (F)
1990  Professor J E Ffowcs Williams (F)
1991  Professor E G Broadbent (F)
1992  J H B Smith (F)
1993  Professor J B Scott-Wilson (F)
1994  M R Williams (F)
1995  Professor D Gardner (F)
1996  Philip C Ruffles (F)
1997  Robert A Davis (F)
1998  Richard Case (F)
1999  Chris Geoghegan (F)
2000  Dr Bill Bardo
2001  Dr Meyer J Benzakein (F)
2002  Jeffrey A Jupp (F)
2003  Dr Michael Howse
2004  Professor Günter Kappler
2007  Iain G Gray (F)
2008  Malcolm Crozier
2009  Timothy Clark
2009  Dr Henry McDonald
2012  Elon Musk
2014  Dr G McConnell (F)
2015  Professor R J Parker (F)
2016  F W Kirkland (F)
2017  G Wyler

2015  Professor R K Agarwal
2016  P Fabre
2016  Sir Michael Marshall CBE
2016  Major T N Peake CMG
2016  Dr D W Richardson
2016  M J Ryan CBE
2017  Professor R Bor

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1954  Sir Geoffrey Taylor (HF)
1955  Lord Hives (HF)
1956  Sir William S Farren (F)
1957  Professor J C Hunsaker (HF)
1958  Sir Sydney Camm (F)
1959  M Dassault
1960  Sir Frederick Handley Page (HF)
1962  Sir Arnold Hall (F)
1963  H Constant (F)
1964  R E Bishop (F)
1965  Professor M J Lighthill (F)
1966  Professor A R Collar (F)
1967  Dr S G Hooker (F)
1968  A A Rubbra (F)
1969  Dr D Küchemann (F)
1970  W Tye (F)
1971  Sir Moriern Morgan (F)
1972  Professor A D Young (F)
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1976  Dr W J Strang (F)
1977  Sir Clifford Cornford (F)
1978  Dr Ludwig Bolkow
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1992  J H B Smith (F)
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1994  M R Williams (F)
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2000  Dr Bill Bardo
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2004  Professor Günter Kappler
2007  Iain G Gray (F)
2008  Malcolm Crozier
2009  Timothy Clark
2009  Dr Henry McDonald
2012  Elon Musk
2014  Dr G McConnell (F)
2015  Professor R J Parker (F)
2016  F W Kirkland (F)
2017  G Wyler
RAeS Team Gold Medallists

2004  SpaceShipOne Team
2005  A380 Wing Design Team
2007  BERP IV Rotor Blade Development Team
2008  Trent 900 Engineering Team
2009  Vectored-Thrust Aircraft Advanced Control (VAAC) Team
2009  ATV Jules Verne Operations Team
2014  Project Zero Team, AgustaWestland
2015  Rosetta Mission Team, ESA
2017  Solar Impulse 2 Team

RAeS Silver Medallists

1909  S F Cody
1921  H R Ricardo (F)
1922  Wing Commander E W Stedman (F)
1923  Wing Commander R M Hill (F)
1924  Major W S Tucker
1925  Professor B Melville Jones (F)
1927  Captain G S Wilkinson (F)
1927  P J Raili
1927  R J Mitchell
1928  B N Wallis
1929  F H Royce
1931  H C H Townend
1932  J de la Cierva
1933  A H R Fedden (F)
1933  D L Hollis Williams (F)
1935  C C Walker (F)
1935  Major F B Halford (F)
1936  B N Wallis
1937  P A Cooke (F)
1937  F W Meredith (F)
1939  Major R H Mayo (F)
1947  W G Carter (F)
1948  I I Sikorsky
1950  J Smith (F)
1950  W E W Petter (F)
1951  S B Gates (F)
1952  Dr H Sutton (F)
1953  H Grinstead (F)
1954  Professor W J Duncan (F)
1955  Dr A A Griffith
1955  Dr R A Frazer (F)
1956  Dr E S Moul (F)
1957  M B Morgan (F)
1958  Dr P B Walker (F)
1959  Dr E A Watson
1960  R H Chaplin (F)
1961  R Hafner (F)
1962  Dr D Küchemann (F)
1962  Professor E J Richards (F)
1963  L H Bedford (F)
1964  A R Howells (F)
1965  Dr R R Jamison (F)
1965  R Stanton Jones (F)
1966  J P Smith (F)
1967  C F Joy (F)
1968  R C Morgan (F)
1969  L N Phillips
1969  W Watt
1970  E E Marshall (F)
1971  Professor J H Argyris (F)
1972  Dr J Seddon (F)
1972  W J Charnley (F)
1974  H Zeffert (F)
1975  Professor W A Mair (F)
1976  L F Nicholson (F)
1977  B O Heath (M)
1978  J C Wimpenny (F)
1979  V A B Rogers (F)
1980  R H Whitby (F)
1981  Dr W Stewart (M)
1982  K S Lawson (F)
1983  Dr E W E Rogers (F)
1984  G H Lee (F)
1985  Dr R C Lock (F)
1986  P G Wilby (M)
1987  M C Neale (F)
1988  J W H Thomas (M)
1989  R P G Collinson
1990  Professor J F Bush (F)
1991  R L Dommel
1992  P C M Perrier
1993  Dr C J Poel
1994  Dr M G Hall
1995  B J Main
1996  Dr P R Ashill
1997  S M Lyons (F)
1998  C Yeo (F)
1999  M Mansell (F)
2000  P W Liddell (M)
2001  Dr S S Banda
2003  A Vincent (F)
2004  G Byham (F)
2005  Professor D Southwood
2006  Professor J M Rolfe
2006  C T J Scrivener
2007  S Purdy
2008  Dr David Dorman
2009  Professor Srinivasan Ragunathan
2010  Brig Gen the Viscount De Winne
2011  Professor Terence Jones
2012  R A C Smith
2013  Professor J D Denton
2014  F B Ogilvie (F)
2014  R Saia
2015  Dr G Satheesh Reddy (F)
2016  B Phillipson (F)
2016  J K Edgley (M)
2017  Dr M Unwin

RAeS Team Silver Medallists

2005  The Huygens Project Team
2006  Inmarsat-4 Satellite Team
2008  Cranfield Aerospace X-48B UAV Team
2010  Mantis UAV Project Team
2011  HYLAS Team
2012  CAMPS Development Project Team
2013  ASTRAEA Team
2014  Team Tarantis
2015  The Beagle 2 Mars Mission Engineering Team

RAeS Silver Medallists

1909  S F Cody
1921  H R Ricardo (F)
1922  Wing Commander E W Stedman (F)
1923  Wing Commander R M Hill (F)
1924  Major W S Tucker
1925  Professor B Melville Jones (F)
1927  Captain G S Wilkinson (F)
1927  P J Raili
1927  R J Mitchell
1928  B N Wallis
1929  F H Royce
1931  H C H Townend
1932  J de la Cierva
1933  A H R Fedden (F)
1933  D L Hollis Williams (F)
1935  C C Walker (F)
1935  Major F B Halford (F)
1936  B N Wallis
1937  P A Cooke (F)
1937  F W Meredith (F)
1939  Major R H Mayo (F)
1947  W G Carter (F)
1948  I I Sikorsky
1950  J Smith (F)
1950  W E W Petter (F)
1951  S B Gates (F)
1952  Dr H Sutton (F)
1953  H Grinstead (F)
1954  Professor W J Duncan (F)
1955  Dr A A Griffith
1955  Dr R A Frazer (F)
1956  Dr E S Moul (F)
1957  M B Morgan (F)
RAeS Bronze Medallists

1908 W R Turnbull (F)
1909 Dr F W Lanchester
1910 B G Cooper
1912 T W K Clarke
1949 F B Bradfield (F)
1949 Captain R N Liptrot
1949 E N Twinning
1950 A C Lovesey (F)
1951 H J Pollard (F)
1952 H Povey (F)
1953 L Doddington
1954 H B Howard (F)
1955 Professor M J Lighthill (F)
1956 J W Barnes
1957 F B Greatrex (AF)
1958 Dr D Williams (F)
1959 D G King-Hele
1960 H G R Robinson
1961 L Haworth (F)
1962 Dr A J Barrett (AF)
1963 H H Pearcey (AF)
1964 H P Y Hitch (AF)
1965 H L Cox (F)
1966 E C Maskell (F)
1967 Dr E H Mansfield (F)
1968 K R Brown
1969 W J G Pinsker
1970 N F Harpur (F)
1971 P Bradshaw
1972 Professor C G van Neikerk (F)
1973 R W Howard (AF)
1974 A B Haines (F)
1975 R L Bickerdike
1976 I C Taig (M)
1977 Dr A H Mebka
1978 Lt Cdr D R Taylor (M)
1979 J McNaqama
1980 S M Ellis
1981 T Sharples
1982 P Brotherhood
1983 R D J Maxwell (M)
1984 D E McLaurin
1985 M R Pike (F)
1986 D C R Link (F)
1987 E L Goldsmith
1988 S A Holloway
1989 R O R Chisholm
1990 Dr N I Carter
1990 W D Bryce
1991 C R Taylor
1991 J C Gibson
1992 D G Mabey (F)
1992 Dr E J Jensen
1993 Professor R S Kalawsky
1994 G C Thomas (M)
1994 H M Newsom
1994 H M Newsom
1995 F J Perry
1995 I P MacDiarmid
1996 C J Richards
1997 J S Lewis
1998 N Barrington
1999 Professor G D Padfield (F)
2000 S E Allwright
2001 D Lister
2002 R Pinker (M)
2003 Dr M Fisher
2004 J Roe
2005 Dr S Janvin (M)
2006 N Scott (F)
2007 Fit Sjt A Reeves
2008 R Cansdale
2009 Dr A M Segal
2011 Dr E Cook
2012 S Carignan
2012 M R Maltby
2013 G W Redgrave (F)
2013 R G W Cherry (F)
2014 R Peckham
2015 E W H Fitzpatrick (M)
2015 Major M Dennis
2015 Dr K A Gharib (M)
2016 A Bradford
2016 Dr S Reed
2017 M J Gamlin (F)

RAeS Team Bronze Medallists

2005 JSF Manufacturing Development Team
2008 BAE Systems Autonomous Systems & Future Capability UAV Team
2009 Fleet FS (AZ) MASU Repair
2010 Space Innovation and Growth Team
2010 AW159 Wildcat/Lynx Mk9A Design Team
2012 CADS Project Team
2013 NEPTUNE Development Team
2014 A350 XWB Wing Major Test Support Team
2015 e-Go Aeroplanes Development Team
2017 Osprey 30 AESA Radar on AW101 Helicopter Team
2017 Chinook Rotary Wing Flight Physics Team

Flight Operations Medallists

1996 Sqn Ldr W J M James
1997 J Lavaroni
1998 A Smith
1999 Captain D H Akhurst
2000 Captain C Elton
2002 P Boor
2003 Captain R Macdonald
2009 Captain D J Martin
2010 Captain J Danning MBE
2011 Captain D Harms
2012 P J Tharp
2013 Flight Sergeant J Sinnott
2014 N J Butcher
2015 Dr S Janvrin (M)
2015 Dr J Pike
2015 Dr A M Segal
2016 Dr E Cook
2017 M J Gamlin (F)

Flight Simulation Medallists

1991 W-D Hass
1992 B P Hampson
1993 E M Booth
1994 Captain W A Wooden
1995 S J Anderson
1997 R Frasca
1998 Captain P Carver
1999 N Seavers
2000 B Cavadias
2002 D Irving
2003 R Curnutt
2005 Captain I C Watkins
2007 Dr D White
2008 O Wynn
2009 Sqn Ldr M E J Hickmott
2010 M Blackwood
2011 Dr E Cook
2012 P J Tharp
2013 Captain J Danning MBE
2015 Dr K A Gharib (M)
2015 Flight Sergeant J Sinnott
2017 Professor J D Allerton
### Alan Marsh Medallists

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### Geoffrey Pardoe Space Award

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### Turnbuckle Award

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### R P Alston Medallists

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2017 Honours, Medals & Awards

Roger Green Medallists

1998  Professor H C Muir OBE
1999  E Wiener
2000  Professor J Reason
2001  Captain D Maurino
2002  Professor R Amalberti
2003  Professor R L Helmreich
2004  Dr J K Lauber
2005  Professor R Flin
2008  Captain P Carver
2009  D King

Young Persons’ Achievement Award

2007  P Williams
2008  M Bell
2009  H Nobbs
2010  S Bidwell
2011  Dr G Ivetic
2012  C Lane
2013  C Hutchin
2014  A Martin
2015  J Naro
2016  A C Godfrey
2017  R Patriarca

Young Persons’ Achievement Commendations

2009  K Thomason
2009  G Cardozo
2011  M Hartley
2013  C Argote
2013  Brunel University, Aerospace and Aviation Engineering Team
2014  T Fermin
2014  A Baghchehsara
2015  R Haines
2015  J Easum
2016  P Pollock

Alan Marsh Award

1997  N Hackett
1998  M Orchard
1999  J Howitt
2000  A Alford
2001  M Tucker
2002  Dr C Harrison
2003  E Lewis
2004  S Edwards
2005  M Couchman
2006  A Ramage
2007  B Buchanan
2008  C Jackson
2009  C Shields
2010  L Gray
2011  P Langworthy
2012  S Gates
2013  A Massaro
2015  M Kear
2017  J Allen

Herbert Le Sueur Award

1999  B Fraser
2000  R Buchanan
2001  J Griffin
2002  J L Hill
2003  V Paddock
2004  K Robinson
2005  S Moffat
2006  A P Smeeton
2007  S Bidwell
2008  K Sollars
2009  T Wolstencroft
2011  P Sozer
2014  S Hart
2015  M Dunkerley
2016  S Clark
N E Rowe Medallists

(under 22 age group)
2017 Jamie Bignell, Yeovil Branch

(22-30 age Group)
2017 Alex Godfrey, Bedford Branch

(under 25 age group)
2004 Ianstee Achunche, Southampton Branch
2005 Mark Wills, Bristol Branch
2006 Daniel Marshall, Farnborough Branch
2008 Hannah Nobbs, Yeovil Branch

(25-30 age Group)
2004 Matt Fox, Stevenage Branch
2005 Robert Rolfe, Farnborough Branch
2006 Marc Merlin Konrad, Bristol Branch
2008 Phillip Williams, Bristol Branch

(under 23 age group)
1992 Mark Parbhoo, Manchester Branch
1993 John Liptrott, Heathrow Branch
1994 Robert Allen, Stevenage Branch

(23-27 age group)
1991 Y W Chan, Manchester Branch
1992 Mark Kendrew, Stevenage Branch
1993 William Crowther, Bristol Branch
1995 Benoît Massal, Toulouse Branch

N E Rowe Certificates of Merit

(under 22 age group)
2017 Bettina Islam, Manchester Branch
2017 Joshua Thomson-Smith, Derby Branch

(22-30 age group)
2017 Chris Clay, Derby Branch
2017 Lucie Cordier, Stevenage Branch

(under 25 age group)
2004 Helen Webber, Bristol Branch
2004 Kwame Bekoe, Farnborough Branch
2005 Andrew Morley, Solent Branch
2008 Rajesh Odedra, Birmingham, Wolverhampton & Cosford Branch

(25-30 age group)
2004 Steven Dean, Farnborough Branch
2010 Sathiyakumar Sharma, Manchester Branch
2010 Adam Newman, Derby Branch

(under 23 age group)
2001 Steven W Phillips, Bristol Branch

(23-27 age group)
1998 Conal Walker, Stevenage Branch
1998 Richard Wood, Preston Branch

......

(under 25 age group)
2010 Mark Holton, Yeovil Branch
2011 Ulrich Walach, Solent Branch
2012 Jamie Ottaway, Boscombe Down Branch
2012 Hannah Latham, Derby Branch

(25-30 age Group)
2010 Mark Holton, Yeovil Branch
2011 Ulrich Walach, Solent Branch
2012 Jamie Ottaway, Boscombe Down Branch
2012 Hannah Latham, Derby Branch

(under 23 age group)
1992 Mark Parbhoo, Manchester Branch
1993 John Liptrott, Heathrow Branch
1994 Robert Allen, Stevenage Branch

(23-27 age group)
1992 Mark Parbhoo, Manchester Branch
1993 John Liptrott, Heathrow Branch
1994 Robert Allen, Stevenage Branch

......

(under 25 age group)
2004 Ianstee Achunche, Southampton Branch
2005 Mark Wills, Bristol Branch
2006 Daniel Marshall, Farnborough Branch
2008 Hannah Nobbs, Yeovil Branch

(25-30 age Group)
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2005 Robert Rolfe, Farnborough Branch
2006 Marc Merlin Konrad, Bristol Branch
2008 Phillip Williams, Bristol Branch

(under 23 age group)
1992 Mark Parbhoo, Manchester Branch
1993 John Liptrott, Heathrow Branch
1994 Robert Allen, Stevenage Branch

(23-27 age group)
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1992 Mark Kendrew, Stevenage Branch
1993 William Crowther, Bristol Branch
1995 Benoît Massal, Toulouse Branch

N E Rowe Certificates of Merit

(under 22 age group)
2017 Bettina Islam, Manchester Branch
2017 Joshua Thomson-Smith, Derby Branch

(22-30 age group)
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2017 Lucie Cordier, Stevenage Branch

(under 25 age group)
2004 Helen Webber, Bristol Branch
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2005 Andrew Morley, Solent Branch
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(25-30 age group)
2004 Steven Dean, Farnborough Branch
2010 Sathiyakumar Sharma, Manchester Branch
2010 Adam Newman, Derby Branch

(under 23 age group)
2001 Steven W Phillips, Bristol Branch

(23-27 age group)
1998 Conal Walker, Stevenage Branch
1998 Richard Wood, Preston Branch

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2018 Honours, Medals & Awards

The most prestigious and long-standing awards in global aerospace honouring achievements, innovation and excellence.

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