



ROYAL
AERONAUTICAL
SOCIETY

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2016

Honours, Medals & Awards

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, long and valued service, or for work that will further advance aerospace.

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RAeS Honours

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Honorary Fellowship

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

DR DONALD W RICHARDSON FRAeS

CHIEF OPERATING OFFICER, DONRICH RESEARCH INC

Dr Richardson is admitted to Honorary Fellowship in recognition of the outstanding and lasting contributions he has made to the aerospace industry over a long and exceptionally distinguished career. His specific accomplishments include directing the research that led to the development of the concept of area navigation which has now been implemented world-wide as the air traffic control standard. He has also directed the research that integrated rotary wing aircraft into our primarily fixed-wing air traffic control system.

Dr Richardson's degrees in aeronautical engineering (BS, 1951; MS, 1958; PhD, 1978) led to a career in human factors, aircraft design, and air traffic control, including three patents for aircraft cockpit display systems. A licensed commercial pilot with instrument, multi-engine and seaplane ratings, he supplemented his engineering career as a research pilot for the FAA, concentrating on air traffic control operational systems. He is a retired Vice President of SAIC, where he was responsible for all corporate civil aviation activities. His election to the Presidency of the AIAA (2004-5) and to the Council of the RAeS (2012-15), reflect the respect in which he is held by colleagues and peers across the international aerospace community of which he is an eminent and distinguished member.



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M PIERRE FABRE

EXECUTIVE VICE-PRESIDENT, RESEARCH, TECHNOLOGY AND INNOVATION, SAFRAN GROUP

M Fabre is admitted to Honorary Fellowship in recognition of the outstanding and lasting contribution to the field of aerospace propulsion that he has made throughout an eminent and distinguished career as an engineer, programme leader and leading aerospace executive and President of Snecma. His contribution to the development of the CFM56 family, and to the launch of the CFM LEAP engine represent particularly notable highlights in a remarkable career that has positioned him at the top of his profession and gained the respect of colleagues and peers across the international aerospace community.

Pierre Fabre, graduated from the Sup'Aéro aeronautical engineering school in 1975. He started his career in 1976 with the engineering division of Snecma, where he held several management positions, in particular for CFM56 control systems, as CFM56 project manager and head of the control division. He was named director of CFM56 programs in 1996, then moved to Messier-Bugatti in 2000 as head of the Braking division. In 2001 he was named president of CFM International, the joint subsidiary of Snecma and GE. He returned to France in 2005, being named Chief Operating Officer of Turbomeca. In 2008 he was named Chairman and CEO of Turbomeca, then Chairman and CEO of Snecma in 2011. Pierre served as Senior Executive Vice President of R&T and Innovation at Safran SA until July 2016.

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Honorary Fellowship

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

SIR MICHAEL MARSHALL CBE DL FRAeS

CHAIRMAN, MARSHALL OF CAMBRIDGE LTD

Sir Michael is admitted to Honorary Fellowship in recognition of his eminence and distinction within the UK aerospace industry and the wider international aviation community, his exceptional leadership and commitment to the Marshall Aerospace & Defence Group, and his determination, business acumen and commitment. He is a role model and inspiration to generations of aspiring aerospace professionals.

Sir Michael is President of Marshall of Cambridge (Holdings) Ltd, the family aerospace and motor company that he joined in 1955 following National Service as a pilot in the RAF and then Cambridge University. He built up the company's motor division, which was publicly floated in 2015. He was Chairman of the Group from 1989 until 2016, presiding over the advancement of its worldwide reputation for aircraft conversion and maintenance. He still retains his pilot's licence for which he qualified when 17. Sir Michael has served as Chairman and then President of The Air League. He has been a Vice-President of the Engineering Employers' Federation, a member of the Air Cadet Council for 12 years and Chairman of the Cambridge ATC Squadron for 38 years.



Honorary Fellowship

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

Accompanied by the Geoffrey Pardoe Space Award

MAJOR TIM PEAKE CMG FRAeS

ASTRONAUT, EUROPEAN SPACE AGENCY

Major Peake is admitted to Honorary Fellowship in recognition of his outstanding achievements as an astronaut, in particular his performance in both the training programme of several years duration and the six-month 'Principia' mission. This followed a notable career as an operational helicopter pilot and a test pilot. He has achieved particular eminence and excelled among his professional peers as a role model, gifted communicator and inspiration to the next generation of potential aerospace professionals. His Honorary Fellowship is accompanied by the Geoffrey Pardoe Space Award, conferred for a significant contribution to space.

Major Peake was commissioned into the Army Air Corps in 1992. He qualified as a helicopter pilot in 1994 and an instructor in 1998. Promoted to Major in 2004, he graduated from the Empire Test Pilots' School the following year. Leaving the Army after 17 years and with over 3,000 flying hours, he became a test pilot with Leonardo Helicopters (formerly AgustaWestland Ltd). In 2010 Major Peake beat over 9,000 other applicants for one of six places on the European Space Agency's new astronaut training programme. He was launched to the International Space Station on 15 December 2015 for the Principia mission. He was awarded a CMG in the Queen's 2016 Birthday Honours List.

Honorary Fellowship

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

MR MICHAEL RYAN CBE FREng FRAeS

VICE PRESIDENT AND GENERAL MANAGER, BOMBARDIER

Mr Ryan is admitted to Honorary Fellowship in recognition of the example he represents to the UK Aerospace Industry through his inspirational leadership of Bombardier Aerospace, Belfast (Shorts) for over 16 years. His long and distinguished career has featured an outstanding level of service, impact and achievement that is recognised by the wider UK aerospace industry and marks him out from among his peers in terms of distinction. Of particular note are the exemplary passion and dedication with which he has piloted the company through a series of major, innovative and challenging programmes, including the successful development, design and manufacture of world class composite wings and the rejuvenation of Bombardier's nacelles capabilities using the latest technologies.

Mr Ryan joined Short Brothers in 1981 after graduating from Queen's University Belfast with an honours degree in Aeronautical Engineering. Prior to and since Bombardier's acquisition of Shorts in 1989, he has held various management positions in the company, culminating in his appointment as Vice-President and General Manager in 2000. A Chartered Engineer and Fellow of the Royal Aeronautical Society and the Royal Academy of Engineering, he was appointed a CBE in 2005. He was awarded honorary Doctorates of Science by both Queen's University Belfast and the Ulster University and is a member of the Aerospace Growth Partnership Board and the Economic Advisory Group to the Northern Ireland Economy Minister.



Honorary Companionship

The Society's highest distinction for those whose professional achievements are not exclusively in aerospace but who have nevertheless made a substantial contribution to the aerospace profession.

PROFESSOR ELIZABETH HUGHES

DIRECTOR AND DEAN OF EDUCATION AND QUALITY LONDON AND SOUTH EAST, HEALTH EDUCATION ENGLAND

Professor Hughes is admitted to Honorary Companionship in recognition of her contribution to aviation medicine and aerospace capability in both military and commercial aviation. Her knowledge, guidance and determination have been pivotal in achieving the means and setting the framework by which future aeromedical consultants will be trained.

Professor Hughes's role in London and the South-East for Health Education England (HEE), involves oversight of all commissioned undergraduate and postgraduate education across the region together with national roles for HEE including international education, pharmacy, healthcare science and diagnostics. She was previously the Lead Dean for Aviation and Space Medicine and she played a crucial role in establishing it as a postgraduate medical training speciality. She is a Consultant in Chemical Pathology and Metabolic Medicine at Sandwell General Hospital, West Bromwich and Honorary Professor at both the University of Birmingham and University of Aston.



RAeS Medals

RAeS Gold Medal

Awarded for work of an outstanding nature in aerospace.

MR FRANK KIRKLAND CEng FRAeS

CHIEF DESIGNER AND SENIOR FELLOW - MECHANICAL INTEGRITY,
ROLLS-ROYCE PLC

Mr Kirkland is awarded the Society Gold Medal in recognition of the exceptional work that has characterised his distinguished career, delivering substantial advances in commercial aero gas turbine engine design. Specific achievements range from his leadership of the design of the Trent 500 engine to introducing lifing methods which have increased safety assurance. Throughout his career he has excelled at solving complex mechanical problems and driving improved safety approaches. As chair of the Rolls-Royce Engineering Fellowship since 2015 he continues to drive the specialists within Rolls-Royce to ensure that they address the challenges of providing ever more efficient and environmentally friendly power systems.

Mr Kirkland joined Rolls-Royce in 1981 and has focussed on the fields of design and mechanical integrity. He has worked across the range of Rolls-Royce aerospace engines from the Dart to the latest Trent models. He was for a time Chief Design Engineer of the Trent 500 and 700 engines for the Airbus A340 and A330 Aircraft. He has been Engineering Lead for Rotating Gas Turbine Parts. He is currently Chief Designer-Civil Aerospace and Senior Fellow in Mechanical Integrity and is a former chairman of the IMechE Aerospace Division.



RAeS Silver Medal

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

MR BRIAN PHILLIPSON FREng FRAeS

CONSULTANT, MARSHALL AEROSPACE AND DEFENCE GROUP

Mr Phillipson is awarded the Society Silver Medal in recognition of his work throughout a distinguished engineering career spanning the Air and Naval sectors of the UK defence industry. He has made significant contributions to the advancement of technology across a wide range of major programmes and these have had a lasting impact on the industry.

Mr Phillipson's early career at British Aerospace Warton included Flight Test, Design, Manufacturing, and Project Management on Jaguar, Harrier, Hawk/Goshawk, Tornado, and EFA (Typhoon). Following completion of the Royal College of Defence Studies course he became BAE Systems HQ Director of Strategy and Planning. Later, as MD of Eurofighter GmbH in Munich, he led the development programme and negotiations for the 'Typhoon' Production Programme. A move to the BAE Systems Naval programmes saw him appointed as MD of the Type 45 Destroyer programme, then as Group MD Sea Systems. A second tour in Munich as Eurofighter COO was followed by seven years in Marshall ADG, first as Engineering Director, then as Business Unit MD.



RAeS Silver Medal

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

MR JOHN EDGLEY CEng MRAeS

DIRECTOR, AEROELVIRA LTD, FORMERLY CHAIR, RAES GENERAL AVIATION SPECIALIST GROUP

Mr Edgley is awarded the Society Silver Medal in recognition of his work and leadership as Chairman of the RAeS General Aviation Specialist Group, which has campaigned for the introduction of a new experimental category of airworthiness approval in the UK. This new category, known as E Conditions, has now been incorporated into the 2016 amendment to the Air Navigation Order, thus creating the right conditions for a resurgence of light aircraft design and manufacturing in the UK. The award also recognises his leadership and flair for innovation and management in light aircraft design and manufacture.



Mr Edgley has designed and built three prototype aircraft. The Optica is the best known, and came nearest to full production with around 20 aircraft produced by the early 1990s and still with the possibility of future production. In the late 1990s a glider built almost entirely of Fibrelam appeared to hold commercial hopes. More recently Mr Edgley's Aerocycle 3 Human Powered Aircraft won the 2016 Icarus Cup sponsored by the RAeS, and shows hope of being a significant step towards this activity becoming a recognised sport, one of the main aims of the Human Powered Aircraft Specialist Group of which he is a member.



RAeS Bronze Medal

Awarded for work leading to advances or contributions in aerospace.

MR ANDREW BRADFORD

SECTOR HEAD, AIR LAUNCHED AIR DEFENCE MISSILES, MBDA

Mr Bradford is awarded the Society Bronze Medal in recognition of his pivotal role in the development of three world-leading missile programmes, the Advanced Short Range Air to Air Missile (ASRAAM), Dual Mode Brimstone, and the 6 Nation Beyond Visual Range Air-to-Air missile (BVRAAM), Meteor. This award also recognises his various contributions in developing and delivering enhanced capability that contributed to outstanding operational success in his roles as Head of Brimstone and Meteor Chief Engineer.

Mr Bradford has worked in MBDA for 33 years. He took up the role of Chief Engineer for ASRAAM in 2001 and delivered the product through production and into service in 2004. In 2004 he moved to the Brimstone programme as Chief Engineer and took the product into service at the end of 2005. He then led the design and development of the Urgent Operational Requirement for the Dual Mode Brimstone weapon system. In 2008 Mr Bradford became the Chief Engineer for the BVRAAM Meteor programme and after a successful development, firing and qualification programme delivered the Certificates of Design to the 6 Partner Nations in 2013. He is also working with BAE Systems on the MBDA missiles that are being integrated onto the Typhoon aircraft in support of the RAF's Project Centurion. He is now the Director for Tactical Strike Missiles at MBDA UK.



RAeS Bronze Medal

Awarded for work leading to advances or contributions in aerospace.

Accompanied by the Airworthiness & Maintenance Specialist Group Award

DR STEPHEN REED CEng FRAeS

FELLOW, STRUCTURAL INTEGRITY AND AGEING AIRCRAFT, DSTL

Dr Reed is awarded the Society Bronze Medal for his contributions as the driving force behind applied research programmes to bring a greater understanding of ageing aircraft issues to fleet operators and regulatory authorities. This has delivered significant benefit both nationally and to the world-wide aerospace community. One critical achievement meriting particular mention is his pioneering use of retired aircraft as ageing aircraft programme laboratories to support the continuing airworthiness of the current in-service UK military fleet. His Bronze Medal is accompanied by the Airworthiness & Maintenance Specialist Group Award for an important contribution in the specialist discipline of airworthiness & maintenance.

Dr Steve Reed is a Technical Fellow at the MoD's Defence Science and Technology Laboratory (DSTL). He is the Technical Authority and instigator of the MoD's Understanding Ageing Aircraft Research and Development Programme. He has over 34 years' experience in military aviation, primarily as an aircraft structural integrity specialist. He has a BSc in Aeronautical Engineering from City University, an MSc in Aerospace Vehicle Design from Cranfield University and a PhD in Mechanical Engineering from the University of Sheffield for which he developed advanced aircraft fatigue monitoring systems using artificial neural networks. Dr Reed is a Chartered Engineer and a Fellow of the Royal Aeronautical Society. He is also the UK National Delegate for the International Committee on Aeronautical Fatigue and Structural Integrity, and is a Visiting Professor at the University of Sheffield.

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 Gold Award

Awarded for exceptional work, which has led to substantial advances or contributions within specialist disciplines in the aerospace industry

PROFESSOR KENNETH K KUO

DISTINGUISHED PROFESSOR OF MECHANICAL ENGINEERING EMERITUS,
PENNSYLVANIA STATE UNIVERSITY

Professor Kuo is awarded the Specialist Gold Award in recognition of his outstanding research accomplishments, impact and leadership in the fields of chemical propulsion and energetic material combustion. He has worked tirelessly to educate generations of combustion and propulsion scientists and engineers through supervising students and authoring comprehensive textbooks and articles. He is recognised worldwide as a one of the most prominent and influential scientists in these fields.



Penn State.

Specialist Silver Award

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

Accompanied by the Structures & Materials Specialist Group Award



MR COLIN ELLIOTT FRAeS

FORMERLY VICE-PRESIDENT ENGINEERING AND PRODUCT DEVELOPMENT, BOMBARDIER

Mr Elliott is awarded the Specialist Silver Award in recognition of his contributions and dedicated leadership in the development, design and manufacture of the composite wing for the Bombardier Aerospace C-series aircraft. This involved the leadership of related structural and materials design, and the development of manufacturing and test technologies. His Award is accompanied by the Structures & Materials Specialist Group Award for an important contribution in the specialist discipline of Structures & Materials.

Mr Elliott began his career at Short Brothers in 1977 as a technical apprentice working initially in structures design and later in the advanced design team. After moving to the stress department, he specialised in the design, analysis and certification of composite structures. Following the acquisition of Shorts by Bombardier in 1989, he was assigned positions of increasing responsibility on new aircraft programmes, including Deputy Chief Engineer on the Learjet 45 and Chief Engineer on the Global Express business aircraft. He was appointed Director of Product Development in 1995 and was promoted to Vice-President, Engineering and Product Development in 2000. Retiring from Bombardier in June 2016, Mr Elliott holds an MBA in Manufacturing Management from Coventry University, is a Fellow of the Royal Aeronautical Society and Chair of the Society's Belfast Branch.

Specialist Silver Award

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

PROFESSOR STEPHEN J ROBERTS

VICE-PRESIDENT FOR STRATEGY AND COMPETITIVE ANALYSIS, FINMECANNICA

Professor Roberts is awarded a Specialist Silver Award in recognition of the excellence of his work and his exceptional contributions to electronic warfare (EW) technology and innovation. His work has had a significant impact on UK EW research and development strategy, on operational tactics and on countermeasures techniques. He has also made a major contribution to the wider body of knowledge related to EW and survivability.

As Director of Strategy and Competitive Analysis, Professor Roberts' main responsibility is to ensure that the business develops products and services that provide customers and end-users with the solutions they need. He joined Marconi Space and Defence after graduating from Cambridge University in 1979 and his speciality was computer simulation of EW and weapon systems. He specified operational software for the Skyshadow ECM Pod and for the Zeus integrated defensive aids system of the UK's Harrier aircraft. From 1984 to 2000, Professor Roberts supported trials and the operational deployment of EW equipment including the Towed Radar Decoy system used on RAF Tornado F3. He was the Industry Chairman of the UK's EW Tower of Excellence from 2004-2010. He was an external examiner on the Military Electronic Systems Engineering course at the Royal Military College of Science and was appointed Visiting Professor in EW Systems at Cranfield University and the Defence Academy of the UK in 2011.



Team Specialist Bronze Award

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



AIR BATTLESPACE TRAINING CENTRE MANAGEMENT TEAM, RAF WADDINGTON

The Air Battlespace Training Centre Management Team (ABTC) is recognised for its contribution in driving a cultural change to synthetic training across Defence by delivering outstanding team, collective and joint training in a contemporary synthetic environment. The team has consistently provided innovative solutions to ensure an outstanding quality and breadth of training for the RAF, RN and British Army to prepare military units for operations. The team's efforts have directly influenced the approach of UK Defence to the advantages of the synthetic environment.

The ABTC is based at RAF Waddington, Lincoln. It is a cutting-edge synthetic training organisation, providing a suite of networked synthetic training equipment to train UK Forces in demanding, operationally relevant environments and scenarios. It enables collaborative teamwork training across air, land and maritime domains, offering a highly immersive but safe, credible and cost-effective environment for training. The ABTC team is drawn from Army, RAF (Regular and Reserve) and contractor personnel from Inzpire, QinetiQ, Boeing and Plexsys.

Team Specialist Bronze Award

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

ALTITUDE MEDICINE & CLINICAL SUPPORT TEAM, RAF HENLOW

The Altitude Medicine & Clinical Support (AMCS) team is recognised for its vital and extremely detailed research into aviation safety-critical human-equipment interfaces that has led to many engineering and technical advances. The team has supported the cutting edge of military operations and exemplifies the finest traditions of aviation capability development.

The AMCS team is formed from regular Royal Air Force personnel at the Centre of Aviation Medicine, RAF Henlow. Comprising engineers and aviation medicine specialists, the team conducts trials on a wide range of safety-critical human-equipment interfaces necessary for aviation operations. The AMCS team provides evidence to support the development and clearance of future UK military aircraft life support systems such as Rivet Joint and F-35. Recent work also includes physiological studies to support the introduction of a portable oxygen system for helicopter operations and trials for RAF aeromedical evacuation including testing the Air Transportable Isolator, patient ventilators and even clinical waste bins.



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.

Women in Aviation & Aerospace Specialist Group Award



MS TRACEY CURTIS-TAYLOR

DIRECTOR, BIRD IN A BIPLANE LTD

Ms Curtis-Taylor is recognised for her contribution in aviation and the inspiration she provides to young people, and to young women in particular, to recognise and strive to reach their full potential and, where appropriate, to gain a greater understanding of our industry and to consider it as a possible career.

Raised in Canada, Tracey developed a passion for flight and had her first flying lesson aged 16. She worked in London and South Africa before emigrating to New Zealand and began flying in earnest. She gained her private pilot's licence, commercial licence and an instructor rating and, unusual for a woman, was trained by military pilots to fly WW2 aeroplanes with the New Zealand Warbird Association. In 2015/16 Tracey took on the challenge of taking her Boeing Stearman biplane, the *Spirit of Artemis*, from the UK to Sydney, Australia, following the route of Amy Johnson, the first pioneering female pilot to complete the 13,000-mile route.

Alan Marsh Medal

Awarded to a member of a flight test crew in recognition of outstanding achievements in the test, development and operational evaluation of rotorcraft.

LIEUTENANT COMMANDER ROBERT E J DOWDELL RNR

Lieutenant Commander Dowdell is recognised for his exceptional dedication and achievements in relation to test flying and, in particular, the definition of Ship Helicopter Operating Limits. The award recognises him as one of the UK's leading authorities on ship-air interface. He has worked tirelessly to improve safety and capability in the maritime aviation arena. In particular he played a pivotal role in the introduction of Night Vision Goggles in the small ship maritime environment.

Lieutenant Commander Dowdell is a test pilot with Leonardo Helicopters (formerly AgustaWestland Ltd), at Yeovil in Somerset and is currently involved in the Wildcat, Merlin MLSP and export AW101 flight test programmes. He served for 31 years in the Royal Navy before transferring to the RN Reserve Air Branch, flying the Wildcat HMA2 with 825 NAS at RNAS Yeovilton. From the outset he specialised in ship's flight operations from frigates and destroyers. He has 8,000 flying hours, has completed over 5,500 deck landings and is an experienced Qualified Helicopter Instructor. He graduated from the Empire Test Pilots' School in 2000 and has flown numerous trials on all RN helicopter types. As a member of the Wildcat Combined Test Team and as CO of 700W NAS, he had a key role in bringing the RN's latest helicopter into service.



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 ALEX GODFREY ARAeS

SYSTEMS ENGINEERING MANAGER, LOCKHEED MARTIN UK

Mr Godfrey's Young Person's Achievement Award recognises that he is regarded by his colleagues and peers in Lockheed Martin UK as an exceptional graduate engineer with incredibly high standards of work and a broad spectrum of skills. He possesses a passion for civil aerospace, has worked hard to increase business at Lockheed Martin's Amptill site and has made valuable contributions to a number of innovative projects.

Mr Godfrey is a Systems Engineer working as Lockheed Martin's engineering lead on their civil space programmes. He has 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 ESA's autonomous reusable spacecraft programme, Space Rider. Previously Mr Godfrey has worked on programmes that are strongly related to ballistic missile defence, giving him an understanding of the requirements of multi-layered defence systems. He received a First Class MEng degree in Spacecraft Systems Engineering from the University of Southampton and last year was a finalist in the national SEMTA engineering awards. He is a committee member of the RAeS Cranfield Branch and co-led Lockheed Martin's outreach programme to inspire students to pursue careers in STEM subjects.



Young Persons' Achievement Commendations

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



MR PETER POLLOCK

SYSTEMS ENGINEER, BAE SYSTEMS

Mr Pollock is commended in recognition of the excellent start to his career and the initiative he has shown as a member of the BAE Systems F-35 Airframe Integration Team. He has already demonstrated notable leadership in his approach to resolving significant airframe issues on the project. Through dedication and hard work, he upheld the principles of BAE Systems, allayed customer concerns and led the development of new knowledge for the aerospace industry.

Mr Pollock gained a First Class MEng degree in Systems Engineering from Loughborough University in 2013 before returning to BAE Systems, having previously been on placement. During the graduate scheme, Mr Pollock moved around the business working on a number of programmes including the Eurofighter Typhoon and F-35 Joint Strike Fighter. He is now working on developing technologies for the aircraft of the future. In addition he is a STEM ambassador, Scout Leader, and senior sailing instructor.

Herbert Le Sueur Award

Awarded to a young person whose studies will be enhanced by attending a UK or European Conference with at least some content related to either helicopter or fixed-wing aircraft safety.

MR SIMON CLARK

FOURTH YEAR TECHNICIAN APPRENTICE, LEONARDO HELICOPTERS (FORMERLY AGUSTAWESTLAND LTD)

Mr Clark receives the Herbert Le Sueur Award for demonstrating an exemplary level of initiative in his role as an apprentice technician with Leonardo Helicopters. The placement required him to identify how best to apply Additive Layer Manufacturing to in-service repair of airframe structures. Throughout his placement, he has shown determination and enthusiasm beyond his chosen discipline.

After completing his A-Levels, Mr Clark joined Leonardo Helicopters, then AgustaWestland Ltd, as a Mechanical Technician Apprentice in 2012. Through the four-year scheme he worked in a range of departments including Build Line Support, Supply Chain Engineering, Repair Design, Technical Publications and Design Engineering. Mr Clark's personal highlight involved a six-month placement working on a new project involving Additive Layer Manufacturing within EH101/AW101 Structural Engineering. He designed, developed and tested a component that provided a solution to historic corrosion problems.



NE Rowe Medal – 25-30 Age Group

Awarded for the best presentation given before any Branch of the Society, plus accompanying written paper, by any person connected with aeronautics, in the 25-30 age group.



MR PAUL MULLEN ARAeS

Mr Mullen presented his paper titled 'Rotor Blade Aerodynamic Analysis & Design' at the Yeovil Branch annual Young Persons' Lecture competition.

Mr Mullen graduated with a MEng in Aero-Mechanical Engineering from the University of Strathclyde in 2010 before joining Leonardo Helicopters on the postgraduate trainee scheme. At the end of the scheme Mr Mullen joined the Aerodynamics department, specifically the rotor blade aerodynamics team. He was assigned to the UK funded HiPerTilt Project, where for the past three years he has validated programmes, analysed new ideas and studied aerodynamic effects for tiltrotor blades. Mr Mullen recently presented his vortex ring state analysis and simulations at the 2016 European Rotorcraft Forum in Lille.

NE Rowe Medal – Under 25 Age Group

Awarded for the best presentation given before any Branch of the Society, plus accompanying written paper, by any person connected with aeronautics, in the under-25 age group.

MR TIMOTHY CLARK

Mr Clark presented his paper titled 'Adaptive Muzzle Brakes (AMB)' at the Boscombe Down Branch annual Young Persons' Lecture competition.

In 2012 Mr Clark began studying Aeronautics and Astronautics at the University of Southampton. After completing three years at the university he undertook an industrial placement year with QinetiQ where he was based primarily within the Air & Space Design Office. Mr Clark was due to return to the University of Southampton in 2016 but instead decided to graduate with a BEng and seek employment after the positive experience he had within QinetiQ. In September 2016 he commenced employment with Martin-Baker as a Systems Engineer.



NE Rowe Certificate of Merit – 25 - 30 Age Group

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



MR CHARLES LAING

Mr Laing presented his paper titled 'Can Human Centrifugation Make a Mission to Mars Possible?' at the Stevenage Branch.

Mr Laing graduated from the University of Aberdeen in 2011 with a BSc degree in Biomedical Sciences. Following on he completed his Masters at King's College London in Space Physiology and Health and was a recipient of the UK Space Agency Scholarship 2013 to attend the International Space University. He is now working at the German Aerospace Centre (DLR) at the Institute of Aerospace Medicine while completing his PhD at King's College London. This investigates astronaut countermeasures using short-arm human centrifugation for long-duration space travel.

MISS HANIA MOHIUDDIN

Miss Mohiuddin presented her paper titled 'The Design, Manufacture & Testing of the Volaticus Human Powered Aircraft' at the Manchester Branch.

Miss Mohiuddin graduated with a BEng (Hons) in Aerospace Engineering from the University of Sheffield in 2013 and an MSc in Autonomous Vehicle Dynamics and Control from Cranfield University in 2016. Upon completion of her degree, she joined Martin-Baker as a Test Engineer conducting investigative trials of components from aircraft such as the F-18, F-35 and the A-1M. She is a STEM Ambassador. She participates in committees of various aerospace societies including the RAeS Manchester Branch. In addition she co-led a team to design and manufacture a Human Powered Aircraft for which she is the pilot. Her academic research included developing a Hybrid Electric Power Management system for UAVs and Aircraft Electrical Braking Systems. Other subjects of interest include Rotorcraft, Avionics and Aircraft Conceptual Design.



MR DAVID RAJENDRAN

Mr Rajendran presented his paper titled 'Turbine Overspeed Aerodynamics - On the aerodynamic performance of an Unlocated Turbine Rotors' at the Cranfield Branch.

Mr Rajendran completed his Bachelor's degree in Aeronautical Engineering from the Madras Institute of Technology in the year 2009 with high honours. After graduating, he worked for a period of five years in the Gas Turbine Research Establishment, Bangalore during which time he was involved in the design of turbines in aero engines for various applications. Subsequently, he enrolled on the Master's course in Gas Turbine Technology at Cranfield University in 2015. During the course, he worked on his thesis at the Rolls-Royce University Technology Centre and made significant research contributions in engine over-speed modelling that has led to improvements in the design of civil gas turbines.

NE Rowe Certificate of Merit – Under 25 Age Group

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

MR VIJAY TRIVEDY

Mr Trivedy presented his paper titled 'Smarter Systems for Smarter Engines - The Rise & Risk of Big Data' at the Derby Branch.

Mr Trivedy graduated with a First Class MEng degree in Mechanical Engineering from the University of Edinburgh in 2015. He returned to Rolls-Royce after an internship on the manufacturing engineering graduate scheme within civil aerospace. His skillset in computer science stemmed from his thesis on tidal turbine power optimisation. This was then developed at Rolls-Royce through manufacturing systems in the advanced blade casting facility in Rotherham, the high performance disc manufacturing facility in Washington and on a new civil nuclear project.



2015

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

Awarded to A T Isikveren, A Seitz, J Bijewitz, A Mirzoyan, A Isyanov, R Grenon, O Atinault, J-L Godard and S Stückl for their paper titled 'Distributed propulsion and ultra-high by-pass rotor study at aircraft level'. *The Aeronautical Journal*, November 2015, Vol 119, No 1221, p 1327.

DR ASKIN T ISIKVEREN

Dr Isikveren is a Member of the RAeS Australia Division and serves as Head, Energy-Efficient Aircraft Architectures within the Energy and Propulsion Dept of SAFRAN S.A. in Paris, France. Formerly, he was Head, Visionary Aircraft Concepts at Bauhaus Luftfahrt e.V. in Munich, Germany. He earned a PhD in Aeronautics from the Royal Institute of Technology (KTH), Sweden. His 25-year career comprises specialisations established within industrial, academic and research institute environments. His research portfolio covers advanced aircraft conceptual design, electro-mobility, distributed propulsion, innovative engine architectures, and active aero-structural-control design. He served as Project Co-ordinator within the EC-funded FP7 DisPURSAL project.





DR ARNE SEITZ

Dr Seitz is a senior researcher in aero propulsion at Bauhaus Luftfahrt. He is Deputy Head of the 'Visionary Aircraft Concepts' group and serves as Lead of the 'Energy Technologies and Power Systems' research theme. He holds a PhD degree in aerospace engineering from the Technical University of Munich (TUM). His field of experience covers advanced propulsion system conceptual design and performance simulation, as well as, aircraft-integrated evaluation of novel technologies with focus placed on distributed and hybrid-electric propulsion. Within the EC-funded FP7 DisPURSAL project he served as lead of the work package dealing with Propulsive Fuselage Pre-concept Design.

MR JULIAN BIJEWITZ

Mr Bijewitz is a researcher in aero propulsion at Bauhaus Luftfahrt in Munich, Germany. As a member of the 'Visionary Aircraft Concepts' group his fields of expertise cover advanced propulsion system conceptual design as well as propulsion system integration aspects, in particular with regards to distributed propulsion systems. Prior to joining Bauhaus Luftfahrt he completed his Master Thesis at Airbus Defence and Space. Mr Bijewitz obtained a Master Degree in Aerospace Engineering from the Technical University of Munich in 2012.



MR ARTUR MIRZOYAN

Mr Mirzoyan is a graduate of the Moscow Aviation Institute specialising in gas turbine engines. He has worked at the Central Institute of Aviation Motors in Propulsion/Aircraft Matching Department (PAMD) for 40 years, and currently serves as Head of a PAMD research group. His research has focused on propulsion and aircraft integration of supersonic civil transports (HISAC) and distributed propulsion (DisPURSAL, AGILE) projects. He is a member of the ICAS Programme Committee and a member of CAEP WG3. Within the EC-funded FP7 DisPURSAL project he served as lead of the work package dealing with Distributed Propulsion Pre-concept Design.

MR ALIK ISYANOV

Mr Isyanov, a graduate from the Ufa Aviation Institute as an engineer specialising in gas turbine engines, has worked at the CIAM (Central Institute of Aviation Motors), in Propulsion/Aircraft Matching department (PAMD) for 15 years. Lately his researches are mainly focused on development of multidisciplinary optimisation systems of propulsion systems for advance aircraft, and investigation of distributed propulsion systems with different type of driving (FP7 DisPURSAL and Horizon 2020 AGILE projects). Today, he is head of PAMD, leader of CIAM researches and projects on advanced distributed propulsion systems.



MR RICHARD GRENON

Mr Grenon graduated from the French engineering school ISAE in 1974. He worked as a research engineer in the Aerodynamic Department of ONERA from 1974 to 2015 when he retired. His first topic was the unsteady aerodynamics of control surfaces, and then he conducted research in the field of aerodynamics of fighter aircraft with a special attention on new configurations. In 1991 he changed activities to work on civil aircraft in particular on the European Supersonic Transport Project. He also worked on wing tip devices, sonic boom propagation and reduction, and on the concept of boundary layer reduction.





MR OLIVIER ATINAULT

Mr Atinault graduated from the French engineering school ISAE (also known as 'Sup'Aero') in 1999. He began his career at Airbus, Toulouse, working on aerodynamics of civil aircraft and engine integration issues both for turbofan and turboprop aircraft. Then he joined the Aerodynamic Department of ONERA to work on the same discipline. He is very experienced in the design and assessment of new aircraft configurations.

MR JEAN-LUC GODARD

Mr Godard graduated from the French engineering school 'Ecole Centrale de Paris' in 1984. Since this period, he has worked at ONERA in the Aerodynamic department on civil aircraft. He has performed numerical as well as experimental activities on aircraft design and assessment, engine integration, drag reduction, laminar flows, within national as well as international projects.



DR STEFAN STÜCKL

Dr Stückl is a research employee within Airbus Group Innovations, the corporate research organisation of the Airbus Group. His main field of activity relates to electric aircraft propulsion and conceptual aircraft design, with a focus on modelling and simulation for the Airbus - Siemens cooperation on electric propulsion systems. Dr Stückl graduated with a Diploma from the Technical University of Munich in 2009 with a focus on aeronautics and energy systems, followed by a PhD thesis in the field of aircraft propulsion in cooperation with the Airbus Group in early 2016.

Silver Award

Awarded to R A Jiménez Manzanera and H Smith, for their papers titled 'Flight in nature I: Take-off in animal flyers,' *The Aeronautical Journal*, March 2015, Vol 119, No 1213, p 257 and 'Flight in nature II: How animal flyers land.' *The Aeronautical Journal*, March 2015, Vol 119, No 1213, p 281.

DR RODRIGO ANDRÉS JIMENEZ MANZANERA

Dr Manzanera is a Landing Gear Systems Engineer for Research and Technology at Akka Aeroconseil UK. Originally from Bogotá, Colombia, he came over to the UK to do his PhD in Aerospace Engineering at the School of Aerospace, Transport and Manufacturing of Cranfield University. He holds a Master's degree in Mechanical Engineering and two Bachelor's degrees in Mechanical and Electronics Engineering. His areas of interest are biomimetics, landing gear systems, aircraft performance, aircraft design and computational fluid dynamics.





PROFESSOR HOWARD SMITH FRAeS

Professor Smith is the head of the Aircraft Design Group at Cranfield University's School of Aerospace, Transport and Manufacturing. The team led by him is dedicated to the integration of technologies such as structures, airframe systems and avionics, to find solutions to aviation related challenges. He currently teaches aircraft conceptual design and aircraft loads to graduate students. His particular interests include aircraft configuration design, design of unmanned aerial vehicles and aircraft static loads.

Silver Award



Awarded to S Poprawa for his paper titled 'Maintenance test flying - an accident waiting to happen?' *The Aeronautical Journal*, June 2015, Vol 119, No 1216, p 781.



CAPTAIN STEFAN POPRAWA FRAeS

Captain Poprawa was until recently the Chief Technical Pilot at South African Airways (SAA). As such he was the Person Responsible for the Part 121 Airline Operation at SA, having had airworthiness oversight over all maintenance activities pertaining to the SAA aircraft fleet. Maintenance test flight oversight fell within this portfolio, including training suitable line pilots to perform maintenance test flying. Captain Poprawa has performed numerous maintenance test flights on a number of different large aircraft types from several manufacturers. Captain Poprawa holds Master's Degrees in Engineering, Aeronautics and Business Administration and is also a Senior Training Captain at SAA. He has worked in airline management in various sections including as the acting CEO of the subsidiary Aircraft MRO of SAA.

Bronze Award



Awarded to W Schuster for his paper titled 'Trajectory prediction for future air traffic management - complex manoeuvres and taxiing.' *The Aeronautical Journal*, February 2015, Vol 119, No 1212, p 121.

DR WOLFGANG SCHUSTER

Dr Wolfgang Schuster was a Senior Research Fellow (Associate Professor) at Imperial College London and Founder and Director of the Transport Systems Vulnerabilities Research Group.

His key research interests have been to assess the vulnerabilities of transport systems as well as of other safety-critical industries, and to research solutions to ensure robustness and resilience in the presence of failures. His primary focus has been on vulnerabilities of automation, positioning, navigation and timing systems for safety-critical applications, intelligent transport systems and automated trajectory management systems for transport applications. He has made significant contributions to major international projects, including the design of robust high-performance navigation architectures for precision aircraft operations; design of holistic Global Navigation Satellite System (GNSS) monitoring architectures to protect users from GNSS failures, ensuring positioning, navigation and timing resilience; development of trajectory optimisation and management tools for aviation and land transport applications; and the development of operational concepts for long-term future multi-modal transport.



Bronze Award

Awarded to J R Jones and C E S Cesnik for their paper titled 'Preliminary flight test correlations of the X-HALE aeroelastic experiment.' *The Aeronautical Journal*, July 2015, Vol 119, No 1217, p 855.

MS JESSICA R JONES

Ms Jones is a PhD candidate in the Aerospace Engineering Department at the University of Michigan. She earned her MSc from the University of Michigan and BSc in Aerospace Engineering from the University of Maryland. Her research focus is modelling and experimental validation of the aeroelastic behaviour of very flexible aircraft.



PROFESSOR CARLOS E S CESNIK FRAeS

Professor Cesnik is Professor of Aerospace Engineering at the University of Michigan and Director of the Active Aeroelasticity and Structures Research Laboratory. His research interests cover the areas of computational and experimental aeroelasticity, structural mechanics, smart structures, and structural health monitoring, resulting in over 280 published papers.

Bronze Award

Awarded to N Rowell, M N Dunstan, S M Parkes, J Gil-Fernández, I Huertas and S Salehi for their paper titled 'Autonomous visual recognition of known surface landmarks for optical navigation around asteroids.' *The Aeronautical Journal*, October 2015, Vol 119, No 1220, p 1193.

DR NICHOLAS ROWELL

Dr Rowell is a postdoctoral scientist at the Royal Observatory of Edinburgh. His areas of research include image processing and machine vision, survey astronomy, white dwarf stars and the formation of the Milky Way. After receiving a PhD in Astrophysics in 2010 from the University of Edinburgh, he spent five years at the Dundee University Space Technology Centre working on a range of vision based guidance projects for the European Space Agency related to planetary and asteroid landing missions. Currently he is working as part of the Data Processing and Analysis Consortium for the Gaia space telescope.





DR MARTIN DUNSTAN

Dr Dunstan is a Research Fellow at the University of Dundee working on chips for vision based navigation for planetary landers and planet surface simulation tools for validating the image processing algorithms used in them. He has also designed chips for a wide bandwidth spectrometer used in a TeraHertz radiometer for atmospheric chemistry and chips for spacecraft test and development equipment. Dr Dunstan is a Member of the Institution of Engineering and Technology.

PROFESSOR STEVE PARKES

Professor Parkes holds the Chair of Spacecraft Electronic Systems at the University of Dundee. His research interests cover spacecraft on-board networks (SpaceWire and SpaceFibre), and data-handling technology, signal and image processing and vision based navigation for planetary landers. Professor Parkes is also Director of the Dundee Satellite Receiving Station, one of the main satellite receiving stations in the UK and CEO of STAR-Dundee Ltd, which designs chips and test and development equipment for spacecraft. He is a Fellow of the Institute of Physics, a Fellow of the Institution of Engineering and Technology and a Fellow of the British Computer Society.



DR JESÚS GIL-FERNÁNDEZ

Dr Gil-Fernández received an MSc. in Aerospace Engineering from Technical University of Madrid, another MSc. in Theoretical Physics from Universidad Autonoma de Madrid, and a PhD in Aerospace Engineering from UPM (best PhD thesis of that year). He is GNC engineer at the Guidance, Navigation and Control section in the European Space Agency (ESA) at ESTEC (European Space and Technology Research Centre). Prior to ESA he was GNC engineer in GMV for 16 years, the last four years he was Head of Interplanetary and NEO missions section.

MS IRENE HUERTAS

Ms Huertas is a trajectory and GNC systems Engineer at Serco Nederland, currently working as a contractor in the Control System division of the Directorate of Technical and Quality Management at the European Space Agency. Her activities encompass (future) launchers, vision-based navigation, GNC software and hardware development in the ESA laboratories, re-entry and re-entry risk projects. She holds an MSc degree in Aerospace from Delft University of Technology.



Roll of Honour

Additional details on previous awards and award winners can be found on the Royal Aeronautical Society website: <http://aerosociety.com/About-Us/medalsawards/awardwinners>

HF - Honorary Fellow
F - Fellow
AF - Associate Fellow
M - Member

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

Honorary Fellows

1916	P Y Alexander	1962	N E Rowe CBE	1983	R H Beteille
1916	W H Dines FRS	1962	Sir George Gardner	1984	J T Stamper
1916	Lt Gen Sir David Henderson	1963	Sir Alfred Pugsley OBE	1984	Professor A D Young OBE
1919	Captain J Laurence Pritchard	1963	William Littlewood	1984	Sir Philip Foreman CBE
1919	Maj B F S Baden-Powell	1964	Sir Denning Pearson	1985	J F Sutter
1920	Wg Cdr T O'B Hubbard	1964	L P Coombes CBE	1985	HM King Hussein of Jordan
1920	Professor J C Hunsaker	1965	Sir Arnold Hall	1985	Sir Roy Sisson
1920	Maj Gen the Rt Hon Sir Frederick Sykes	1965	B S Shenstone	1986	Air Cdre Sir Vernon Brown OBE
1920	Air Marshall Sir Hugh Trenchard	1965	J Stack	1986	Professor J H Argyris
1923	Captain J Laurence Pritchard	1966	Air Commodore F R Banks OBE	1986	Dr K G Wilkinson CBE
1926	Sir Alan J Cobham	1967	Sir George Dowty	1987	F Cereti
1929	Maj Lester D Gardner	1967	Professor Dr H J van der Maas	1988	Professor H Ashley
1933	Orville Wright	1967	Dr Barnes Wallis CBE	1988	G P Dollimore CBE
1933	Griffith Brewer	1968	Professor J A J Bennett	1989	Admiral Sir Raymond Lygo
1940	Sir Frank S Spriggs	1968	Professor Dr G Gabrielli	1989	Air Marshal Sir Charles Pringle
1942	Dr T P Wright	1968	G R McGregor OBE	1989	F d'Allest
1943	E D Warner	1969	Dr R R Gilruth	1990	P A Hearne
1944	The Rt Hon Winston S Churchill	1969	Lord Kings Norton	1990	Sir James Lighthill
1945	Professor L Bairstow	1969	Sir Archibald E Russell CBE	1990	Air Cdre Sir Geoffrey Roberts CBE
1948	Sir Geoffrey Taylor	1970	Sir Robert Cockburn	1991	Sir Ralph Robins
1948	Sir Alliot Verdon-Roe	1970	Dr C S Draper	1991	Professor E J Richards
1948	Sir Hugh Oswald Short	1970	Academician A N Tupolev	1992	Professor Em Dr-Ing K H Doetsch
1949	Lord Brabazon of Tara	1971	Professor S Goldstein	1992	Sir John Charnley
1949	Louis Breguet	1971	Dr Henri Coanda	1992	G H Lee
1949	Sir Frederick Handley Page CBE	1972	Dr S G Hooker CBE	1993	HRH The Duke of Kent
1950	Robert Blackburn	1973	Dr A M Ballantyne	1993	Professor Dr-Ing B J Habibie
1950	Sir Richard Fairey MBE	1973	Professor E Carafoli	1993	R W Howard CBE
1950	Dr Theodore von Kármán	1973	Professor A R Collar	1994	Baroness Platt of Writtle CBE
1950	Sir Francis K McLean	1973	J S McDonnell	1994	Lord Tombs of Brailes
1950	Mervyn O'Gorman	1973	Sir James Martin	1994	S Gillibrand CBE
1950	Sir Thomas Sopwith CBE	1973	D W Douglas	1995	C H Kaman
1951	Professor Sir Bennett Melvill Jones	1974	S D Davies CBE	1995	Professor J L Stollery CBE
1951	Sir Henry T Tizard	1975	C Abell OBE	1995	R W R McNulty CBE
1951	C C Walker	1975	H A L Ziegler	1996	P M Condit
1953	Sir Geoffrey de Havilland CBE	1975	Dr E S Moulton CBE	1996	Sir Richard H Evans CBE
1953	Sir Arthur Gouge	1976	Sir Keith Granville CBE	1997	J Pierson
1953	Lord Hives MBE	1976	Sir William Hildred OBE	1997	N Augustine
1953	HRH The Duke of Edinburgh	1976	Sir Morien Morgan	1997	J Cunningham CBE
1954	Sir Roy Fedden MBE	1977	Sir William Hawthorne	1998	M Flanagan
1954	Air Cdre Sir Frank Whittle	1977	A A Rubbra CBE	1998	R Belyakov
1955	Igor I Sikorsky	1977	Sir Lawrence Wackett	1998	R Yates
1955	H Grinsted CBE	1978	HRH The Prince of Wales	1998	S Ajaz Ali
1956	Sir Roy H Dobson CBE	1978	Dr O Nagano	1999	A Caporaletti
1956	Dr Hugh L Dryden	1978	Dr W Tye CBE	1999	D Burrell
1957	HRH The Prince of The Netherlands	1979	Professor D Keith-Lucas	1999	Dr R Collette
1958	Sir Richard Southwell	1979	J Szydowski	2000	N Barber
1959	Professor J Ackeret	1980	E H Heinemann (USA)	2000	Professor Ing E Vallerani
1959	Sir William Farren MBE	1980	Sir Frederick Page CBE	2000	Sir Donald Spiers
1959	S B Gates OBE	1980	Sir Peter Masfield	2001	A C Welch OBE
1960	Sir George Edwards CBE	1981	Sir Robert Hunt CBE	2001	Dr B Halse
1960	Professor W J Duncan CBE	1982	H Davies	2001	J-P Béchat
1961	Sir Sydney Camm CBE	1983	Dr G S Hislop CBE	2001	Sir Arthur Marshall OBE
1961	J D North	1983	Professor Dipl-Ing G Madelung	2002	A Mulally

Honorary Fellows

2003 P C Ruffles CBE
2003 Professor Sir John Horlock
2003 J Thomas
2003 A A D Henshaw MBE
2004 Captain E 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

2014 J-P Herteman
2015 Professor Sir Martin Sweeting OBE
2015 J-J Dordain
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

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 Hildred OBE
1961 Sir John N Toothill CBE
1962 J B Stoker
1962 F E Barwood MBE
1963 C H Gibbs-Smith
1963 C L Pashley MBE
1963 Lord Wilberforce OBE
1965 L A Wingfield
1965 T James
1965 J Bradbrooke MBE
1966 J Davison OBE
1970 H G Alston
1970 Sir Anthony Milward CBE
1971 W Straight CBE

1973 C Dollfus
1973 Lord Elworthy
1975 H Kremer
1975 Sir Reginald Verdon-Smith
1976 Lord Beswick
1978 J R Stainton CBE
1979 Lord Keith of Castleacre
1980 Sir Arthur Marshall OBE
1981 Sir Neil Cameron CBE
1982 Sir Douglas Lowe
1983 L C Hunting
1985 Lord King of Wartnaby
1985 F A A Wootton
1986 G Pattie
1987 Sir Norman Payne CBE
1988 Sir Colin Marshall
1989 Air Chief Marshal Sir Peter Harding
1989 M D Bishop
1990 T Mayer OBE
1991 R F Baxter
1991 Sir Adrian Swire
1992 Dr T A Ryan

1994 R C N Branson
1994 Professor C J Pennycuik
1995 Air Marshal M Nur Khan
1996 Sir Neil Cossons OBE
1997 A J Goldman
1997 R D Laphorne
1998 P Martin
1999 HE Sheikh Hamdan bin Mubarak Al Nahyan
2000 HE Sheikh Ahmed Bin Saeed Al Maktoum
2002 J J Travolta
2002 R Turnill
2003 Dr C C Kong
2007 D Piggott
2010 G Bisignani
2014 Air Marshal A Daudpota
2014 P M Jarrett
2015 Air Commodore C Clarke
2015 Sir Roger Bone
2015 D Bent
2016 Professor E Hughes

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)
1933 Sir Richard Glazebrook
1937 Juan de la Cierva (posthumously)
1945 Air Cdre F Whittle (F)
1946 Professor L Baird (HF)
1947 Sir B Melville Jones (F)
1950 Sir Geoffrey de Havilland (F)
1951 W G A Perring (F) (posthumously)
1952 Dr T von Kármán (HF)
1953 E F 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)
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)
1970 W Tye (F)
1971 Sir Morien 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 Gunter 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)

RAeS Team Gold Medallists

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

RAeS Silver Medallists

1909	S F Cody	1957	M B Morgan (F)	1986	P G Wilby (M)
1921	H R Ricardo (F)	1958	Dr P B Walker (F)	1987	M C Neale (F)
1922	Wing Commander E W Stedman (F)	1959	Dr E A Watson	1988	J W H Thomas (M)
1923	Wing Commander R M Hill (F)	1960	R H Chaplin (F)	1989	R P G Collinson
1924	Major W S Tucke	1961	R Hafner (F)	1990	J F Bush (F)
1926	Professor B Melville Jones (F)	1962	Dr D Kuchemann (F)	1991	R L Dommet
1927	Captain G S Wilkinson (F)	1962	Professor E J Richards (F)	1992	P C M Perrier
1927	P J Ralli	1963	L H Bedford (F)	1993	Dr C J Peel
1927	R J Mitchell	1964	A R Howell (F)	1994	Dr M G Hall
1928	B N Wallis	1965	Dr R R Jamison (F)	1995	B J Main MBE
1929	F H Royce	1965	R Stanton Jones (F)	1996	Dr P R Ashill
1931	H C H Townend	1966	J P Smith (F)	1997	S M Lyons (F)
1932	J de la Cierva	1967	C F Joy (F)	1998	C Yeo (F)
1933	A H R Fedden (F)	1968	R C Morgan (F)	1999	M Mansell (F)
1933	D L Hollis Williams (F)	1969	L N Phillips	2000	P W Liddell (M)
1935	C C Walker (F)	1969	W Watt	2001	Dr S S Banda
1935	Major F B Halford (F)	1970	E E Marshall (F)	2003	A Vincent (F)
1936	B N Wallis	1971	Professor J H Argyris (F)	2004	G Byham (F)
1937	A Cooke (F)	1972	Dr J Seddon (F)	2005	Professor David Southwood
1937	F W Meredith (F)	1973	W J Charnley (F)	2007	S Purdy
1939	Major R H Mayo (F)	1974	H Zeffert (F)	2008	Dr David Dorman
1947	W G Carter (F)	1975	Professor W A Mair (F)	2009	Professor Srinivasan Raghunathan
1948	I I Sikorsky	1976	L F Nicholson (F)	2010	Brig Gen the Viscount De Winne
1950	J Smith (F)	1977	B O Heath (M)	2011	Professor Terence Jones
1950	W E W Petter (F)	1978	J C Wimpenny (F)	2012	R A C Smith
1951	S B Gates (F)	1979	V A B Rogers (F)	2013	Professor J D Denton
1952	Dr H Sutton (F)	1980	R H Whitby (F)	2014	F B Ogilvie (F)
1953	H Grinsted (F)	1981	Dr W Stewart (M)	2014	R Saia
1954	Professor W J Duncan (F)	1982	K S Lawson (F)	2015	Dr G Satheesh Reddy (F)
1955	Dr A A Griffith	1983	Dr E W E Rogers (F)	2016	B Phillipson (F)
1955	Dr R A Frazer (F)	1984	G H Lee (F)	2016	J K Edgley (M)
1956	Dr E S Moulton (F)	1985	Dr R C Lock (F)		

RAeS Team Silver Medallists

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



RAeS Bronze Medallists

1908 WR Turnbull (F)	1971 P Bradshaw	1995 F J Perry
1909 Dr F W Lanchester	1972 Professor C G van Neikerk (F)	1995 I P MacDiarmid
1910 B G Cooper	1973 R W Howard (AF)	1996 C J Richards
1932 T W K Clarke	1974 A B Haines (F)	1997 J S Lewis
1948 F B Bradfield (F)	1975 R L Bikerdike	1998 N Barrington
1949 Captain R N Liptrott	1976 I C Taig (M)	1999 Professor G D Padfield (F)
1949 E N Twining	1977 Dr A H Mebka	2000 S E Allwright
1950 E C Lovesey (F)	1978 Lt Cdr D R Taylor (M)	2001 D Lister
1951 H J Pollard (F)	1979 J McNamara	2002 R Pinker (M)
1952 H Povey (F)	1980 S M Ellis	2003 Dr M Fisher
1953 L Boddington	1981 T Sharples	2004 J Roe
1954 H B Howerd (F)	1982 P Brotherhood	2005 Dr Simon Janvrin (M)
1955 Professor M J Lighthill	1983 R D J Maxwell (M)	2005 Dr Jack Pike
1956 J W Barnes	1984 D E McLaurin	2006 N Scott (F)
1957 F B Greatrex (AF)	1985 M R Pike (F)	2007 Flt Sgt A Reeves
1958 Dr D Williams (F)	1986 D C R Link (F)	2008 R Cansdale
1959 D G King Hele	1987 E L Goldsmith	2009 Dr A M Segal
1960 H G R Robinson	1988 S A Holloway	2011 Dr E Cook
1961 L Haworth (F)	1989 R O R Chisholm	2012 S Carignan
1962 Dr A J Barrett (AF)	1990 Dr N J Taylor	2012 M R Maltby
1963 H H Pearcey (AF)	1990 W D Bryce	2013 G W Redgrave (F)
1964 H P Y Hitch (AF)	1991 C R Taylor	2013 R G W Cherry (F)
1965 H L Cox (F)	1991 J C Gibson	2014 R Peckham
1966 E C Maskell (F)	1992 D G Mabey (F)	2015 E W H Fitzpatrick (M)
1967 Dr E H Mansfiels (F)	1992 Dr D E Jensen	2015 Major M Dennis
1968 K R Brown	1993 Professor R S Kalawsky	2015 Dr K A Gharib (M)
1969 W J G Pinsker	1994 G C Thomas (M)	2016 A Bradford
1970 N F Harpur (F)	1994 H M Newns	2016 Dr S Reed

Team Bronze Medallists

2005 JSF Manufacturing Development Team	2010 Space Innovation and Growth Team	2014 A350 XWB Wing Major Test Support Team
2008 BAE Systems Autonomous Systems & Future Capability UAV Team	2010 AW159 Wildcat/Lynx Mk9A Design Team	2015 e-Go Aeroplanes Development Team
2009 Fleet FS (Air) MASU Repair	2012 CADS Project Team	
	2013 NEPTUNE Development Team	

Flight Operations Medallists

1998 J Lavaroni	2003 P Boor	2011 P G Richards
1999 A Smith	2008 Captain R Macdonald	2012 P D Moxham
2000 Captain D H Akhurst	2009 Captain J Danning MBE	2013 Captain D A J Martin
2001 Captain C Elton	2010 Captain R Kohn	2014 N J Butcher

Flight Simulation Medallists

1991 W-D Hass	1999 N Seavers	2009 Sqn Ldr M E J Hickmott
1992 B Hampson	2000 B Cavadias	2010 M Blackwood
1993 E Boothe	2003 D Irving	2011 Dr E Cook
1994 Captain W Wooden	2004 R Curnutt	2012 P J B Tharp
1995 S J Anderson	2006 Captain I C Watkins	2013 Captain D Harms
1997 R Frasca	2007 Dr D White	
1998 Captain P Carver	2008 O Wynn	

Alan Marsh Medallists

1958 Lt Cdr G G R Millier	1973 L R Moxam	1992 Flt Lt C J Lewis
1960 Flt Sgt B Breach	1974 Captain A C Gordon	1993 A Warner
1961 J Brannon	1976 Flt Lt J R A Whitney	1995 C W Hague
1962 C T C Hosegood	1977 Sqn Ldr G R Spate	2000 D Reid
1963 Wg Cdr K H Wallis	1979 K F Robertson	2002 J E M Mustard
1964 K M Reed	1981 Lt Cdr K N Atkin	2006 A Strachan
1965 Lt Cdr J G P Morton	1982 Lt Cdr N Arnall Culliford	2009 N Talbot
1966 Major R O I Woodbridge	1983 Captain R A Lister	2011 Sqn Ldr D Marsden
1967 W H Sear	1984 Captain D A Creamer	2012 S Carignan
1968 Sqn Ldr M A McNeile	1987 J T Egginton	2013 Captain M R Prior
1969 J L Barnes	1988 Lt Cdr R I Horton	2014 Lt Cdr M A Sewed
1970 Major H B Warburton	1989 S M StC Collins	2016 Lt Cdr R E J Dowdell
1971 Cdr L G Locke	1990 P J G Harper	
1972 Captain D H Eastwood	1992 Flt Lt P A Bell	

Geoffrey Pardoe Space Award

1994 J Byrne	2005 Professor J L Culhane	2009 J Ellwood
1995 Dr R A Rowntree	2006 A Thirkettle	2010 W Whitehorn
1996 M J Painter OBE	2007 UK TopSat Team, QinetiQ, Surrey Satellite Technology Ltd, Rutherford Appleton Laboratory, Infoterra	2011 A Bond
1999 Dr M Fouquet	2007 GIOVE-A Team, Surrey Satellite Technology Ltd (SSTL)	2012 P Wood
2000 C McInnes	2008 Skynet 5 Space Team, EADS-Astrium	2013 J Thatcher (M)
2001 Dr D Fearn		2014 R Peckham
2002 P Down		2015 Rosetta Flight Control & Flight Dynamics Team
2003 I V Munro		2016 Major T N Peake CMG
2004 J Morgan		

Turnbuckle Award

1994 J E Humphreys	2001 Sqn Ldr M Hepworth	2011 J M Rainbow OBE (F)
1995 A N Nash	2002 Wg Cdr L Reid	2012 M Skinner
1996 P J Adams (F)	2003 Sqn Ldr C Chippington	2014 M J Adams
1998 Ping Kit Chan	2004 J Craike	2015 Major M Dennis
1999 R C 'Bob' Williams	2009 R W Alcorn	
2000 B Newton	2010 A Barnes	

Young Persons' Achievement Award

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

Young Persons' Achievement Commendations

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

Alan Marsh Award

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

Herbert Le Sueur Award

1999 B Fraser
2000 R Buchanan
2001 J Griffin
2003 J L Hill
2004 V Paddock

2005 K Robinson
2006 S Moffat
2007 S Bidwell
2007 A P Smeeton
2008 K Sollars

2009 T Wolstencroft
2011 P Sozer
2014 S Hart
2015 M Dunkerley
2016 S Clark

NE Rowe Medallists

(under 25 age group)

2004 Iansteel Achunche, Southampton Branch
2005 Mark Wills, Bristol Branch
2006 Daniel Marshall, Farnborough Branch
2007 Hannah Nobbs, Yeovil Branch

2010 Mark Holton, Yeovil Branch
2011 Ulrich Walach, Solent Branch
2012 Jamie Ottaway, Boscombe Down Branch
2012 Hannah Latham, Derby Branch

2013 James Ibbitson, Yeovil Branch
2014 Guillermo Durango Pascual, Cranfield Branch
2015 Charles Muir, Yeovil Branch
2016 Timothy Clark, Boscombe Down Branch

(25-30 age Group)

2004 Matt Fox, Stevenage Branch
2005 Robert Rolfe, Farnborough Branch
2006 Marc Merlin Konrad, Bristol Branch
2007 Phillip Williams, Bristol Branch

2008 Alexander Moerchel, Derby Branch
2009 Dr Ian Edmonds, Derby Branch
2011 Alicia Carpenter, Stevenage Branch
2012 Benjamin Hewlett, Stevenage Branch

2013 Filomeno Martina, Cranfield Branch
2014 Sarah Hunt, Derby Branch
2015 Simon Chiverton, Stevenage Branch
2016 Paul Mullen, Yeovil Branch

(under 23 age group)

2000 Robin Dickenson, Bristol Branch
2001 Paul Clark, Manchester Branch

2002 Jennifer Goodman, Bristol Branch
2003 Tareq Nazlawy, Stevenage Branch

(23-27 age group)

1995 Benoît Massal
1996 Jean-Christian Bordier
1997 Michael Jump

1998 Conal Walker, Stevenage Branch
1998 Richard Wood, Preston Branch
1999 Richard Fisher, Stevenage Branch

2000 Darren Ansell, Preston Branch
2001 David Starling, Bristol Branch
2003 Stuart Woolvin, Farnborough Branch

NE Rowe Certificates of Merit

(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

2010 Tomos Edwards, Boscombe Down Branch
2011 Jorgina Busquets, Astrium
2012 Blake Charles, Yeovil Branch
2015 Alex Cook, Boscombe Down Branch
2015 Raúl González Muñoz, Cranfield Branch

2015 Jaidev Sanketi, UAE Dubai Branch
2015 Richard Stephens, Cambridge Branch
2016 Vijay Trivedy, Derby Branch

(25-30 age group)

2004 Steven Dean, Farnborough Branch
2010 Sathyakumar Sharma, Manchester Branch
2010 Adam Newman, Derby Branch

2012 Christopher Moore, Yeovil Branch
2013 Jonathan Nash, South African Division
2015 Manisha Kushwaha, Cranfield Branch

2016 Charles Laing, Stevenage Branch
2016 Hania Mohiuddin, Manchester Branch
2016 David J Rajendran, Cranfield Branch

(under 23 age group)

2001 Steven Phillips, Bristol Branch

2002 David Rose, Bristol Branch

(23-27 age group)

1999 John Mackie, Manchester Branch
2001 Dr Simon Forsyth, Stevenage Branch

2002 Carl Warren, Stevenage Branch
2003 Mohammed Afsar, Bristol Branch



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