



midlands aerospace alliance

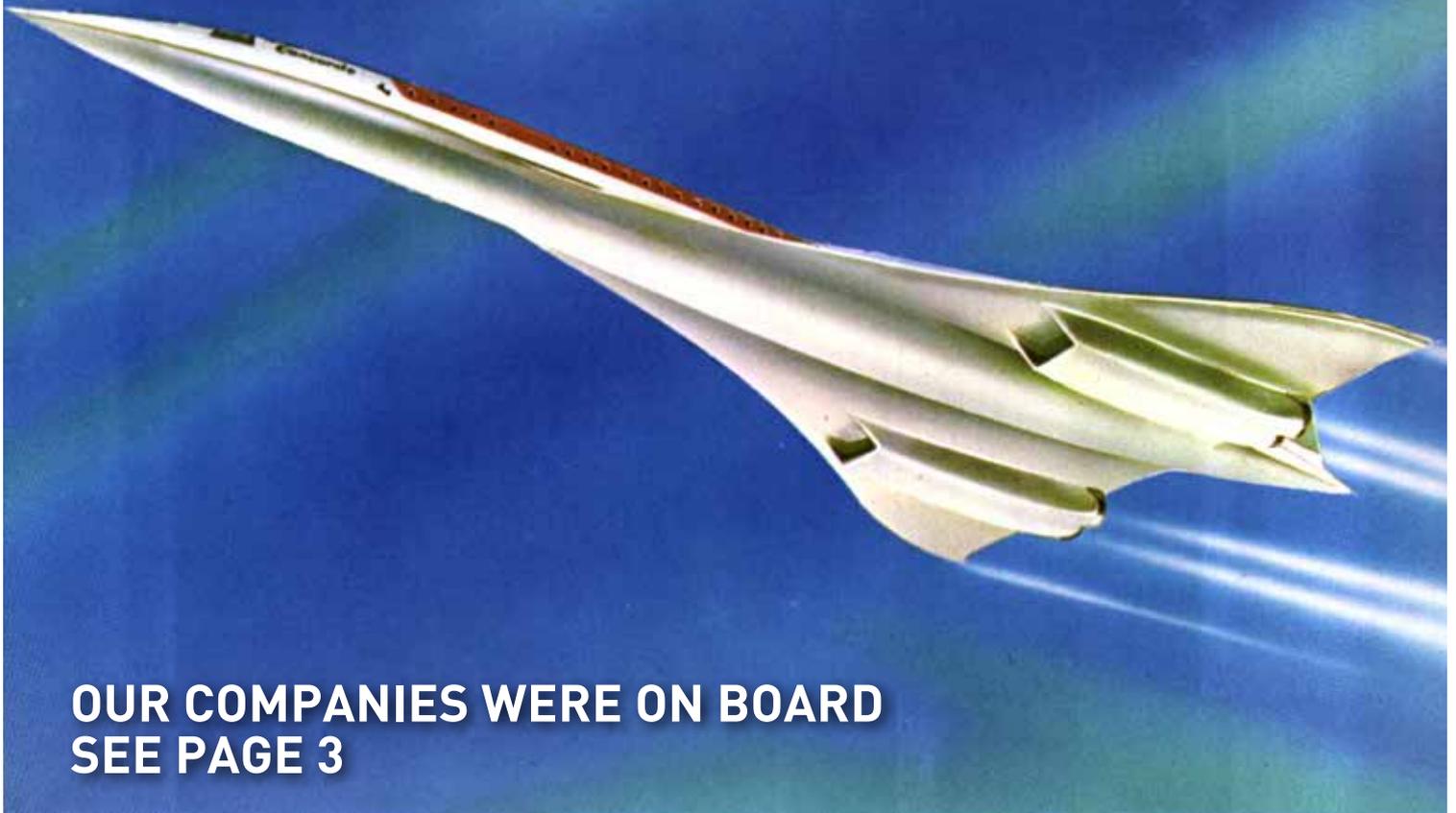
MIDLANDS

AEROSPACE

ISSUE 48. SPRING 2019

MAGAZINE

THE DAY THE MIDLANDS WENT SUPERSONIC



Cover image © Aviation Ancestry

**OUR COMPANIES WERE ON BOARD
SEE PAGE 3**

**THE AEROSPACE WORLD COMES TO
BIRMINGHAM**



Join us at the
ICC on 19 to 21 March – see page 5

**WHO'S WHO ON THE
MAA BOARD**

Our directors represent a cross
section of the industry – see page 12

**GOVERNMENT SUPPORTS
UK AEROSPACE**

Aerospace sector deal provides
up to £125m – see page 14

Update

SHOWCASE YOUR BUSINESS AT THE PARIS AIR SHOW 2019

➤ We're pleased to announce that the MAA will be exhibiting with its members at the 53rd Paris Air Show, which is taking place from 17 to 23 June.

The event, which is the largest aerospace trade show in the world, will be held at the Le Bourget Parc des Expositions and once again brings together all of the major players in the global aerospace industry behind the latest technology innovations.

We'll be showcasing our fabulous new stand design for 2019 and hope that you'll be able to join us on it!

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- ➔ Carter Manufacturing Limited
- ➔ Columbia Precision
- ➔ CW Fletcher & Sons
- ➔ Dynamic Metals Ltd
- ➔ Enginetics, Spincraft - Standex Engineering Technologies Group
- ➔ G&O Springs Ltd
- ➔ Institute for Aerospace Technology – University of Nottingham
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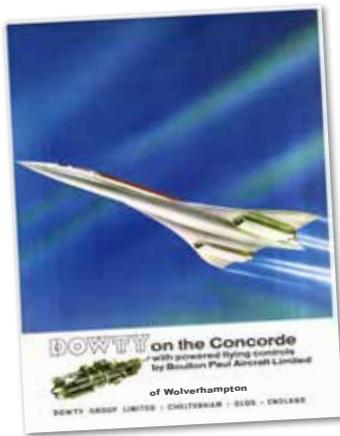
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50 YEARS SINCE CONCORDE TOOK OFF

Who can remember when the first Concorde flight took place? And who can believe that it happened half a century ago?



Well it did. On the 2 March 1969 the world's first supersonic passenger aircraft took to the skies in Toulouse.

Boulton Paul Aircraft in Wolverhampton designed and made the flight controls which moved the elevons at the rear of Concorde's wings. Then owned by Dowty, the company is now Moog Aircraft Group – which more recently designed and now makes the flight controls which move the slats and flaps of the Boeing 787 Dreamliner's wings. Many other Midlands companies made significant technology contributions to Concorde – we will feature them in future issues.

As this special milestone has got us feeling nostalgic, here's a quick run through of Concorde's history:

- Concorde was born out of separate French and British projects that joined forces in 1962
- The partnership went on to build 20 of the Concorde aircraft
- Its first flight took place on 2 March 1969 in Toulouse
- Cruising at around 1,350 mph, a crossing from London or Paris to New York took less than three and a half hours - the record crossing stands at 2hrs 52mins 59secs
- Travelling westwards, the five-hour time difference meant Concorde landed before local arrival time caught up with the departure time
- In 2000, an Air France Concorde bound for New York crashed shortly after taking off from Paris, killing 113 people
- After a series of problems following the accident, Concorde was taken out of service in 2003

↓ NEWS ON THE WEB

For the most recent news updates click through to www.midlandsaerospace.org.uk/news

→ **BG Engineering** was crowned the winner of the Excellence in Manufacturing Award at the 2018 Derbyshire Times Business Awards. Well done!

→ Recruitment for the UK Battery Industrialisation Centre (UKBIC), which will open in 2020, is under way and is being spearheaded by industry specialists **Consilium Recruit**.

→ **Argenta** has provided the University of Sheffield's AMRC with a paperless shop floor management solution incorporating Industry 4.0 technologies.

→ Industrial gas and turbine overhaul and repair specialists Turbine Efficiency Ltd turned to **Indestructible Paint** to supply a Chrome-Free IPAL (CFIPAL) coating to enhance the performance of its equipment.

→ **Wallwork Group** has opened a new £130,000 in-house mechanical testing facility for heat treated components at its plant in Cambridge.

→ **AE Aerospace** has moved to its new factory following the company's rapid growth and investment in becoming a "Glass Factory".

↓ NEWS ON MAA EVENTS

→ **Successful second MAA Annual Dinner supports homeless veterans.**

A total of £1,500 was raised in support of our chosen charity, Once We Were Soldiers, while Sir John Peace, Chairman of the Midlands Engine and aviation broadcaster Seán Maffett made thought-provoking speeches.

→ **Members share their views on government aerospace policy and elect new directors.** At last November's AGM, Julia Goldsworthy, Director of Strategy at the West Midlands Combined Authority (WMCA), discussed how the sector can work more closely with the WMCA Local Industrial Strategy, with members being invited to share their views. The meeting also saw us announce the election of David Whiffin and re-election of David Danger and Peter Smith to the MAA Board.

**BOOK NOW
MAA DINNER
10 OCTOBER
2019**

THE DRAMA CONTINUES

DELEGATES GET UP TO SPEED ON LATEST DEVELOPMENTS

Companies from across the aerospace industry were given insights into all things additive manufacturing (AM) at the latest event organised by the MAA.

The UK Aerospace Additive Manufacturing in the Supply Chain event took place at the Advanced Manufacturing Training Centre (AMTC), which gave manufacturers the chance to get up to speed on the latest AM developments.

Organised as part of the Digital Reconfigurable Additive Manufacturing facilities for Aerospace (DRAMA) research programme, delegates took part in workshops, discussions and networking and heard from several speakers, including the Manufacturing Technology Centre's (MTC) Dr Katy Milne. Dr Milne set the scene by discussing where AM sits alongside other manufacturing processes, while keynote speaker Tim Hope, manager of GKN's additive manufacturing centre, revealed how they are progressing with their 'additive journey.'

Mr Hope discussed the challenge of whether companies should be experimenting with AM on simpler aircraft parts

before progressing on to more complex parts, or should they quickly move on to the complex parts where AM is justifiable from a commercial perspective.

Other key topics discussed during the morning included:

- **The pace of AM** – and the challenges related to making sure supply chains keep pace with the rate at which AM is evolving
- **Post-process finishing** – currently a lack of awareness around the fact AM processes often involve post-process finishing, what these processes are and their impact on aerospace component manufacturing
- **Fatigue** – it is essential fatigue issues are considered throughout the lifespan of parts and components

In the afternoon, delegates took part in four workshops that were run by the MAA's technology team. These sessions provided DRAMA with valuable feedback on how different aerospace sub-sectors perceive AM and the strategies they may use to adopt it.



ABOUT DRAMA

We dedicated a whole page to DRAMA in the last edition (Autumn 2018) of this magazine. For those of you who didn't see it, or who would like a recap, here's a quick overview of what DRAMA is all about:

- **Delivered by:** A consortium led by the MTC for three years to 2020
- **Aims:** To help build a stronger AM supply chain for UK aerospace through powder bed fusion and binder jetting
- **Cost:** £14.3million
- **Partners:** MTC, ATS, Autodesk, Granta, MAA, National Physical Laboratory, Renishaw, University of Birmingham
- **More information:** Contact the MAA on 02476 430 250 or info@midlandsaerospace.org.uk

DRAMA
GKN AEROSPACE
BRISTOL
30 APRIL

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WEBSITE



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AerospaceForum

BIRMINGHAM



Andy Street, Mayor of the West Midlands, will open the event

 The Midlands is synonymous to many with our world-leading automotive industry. We are equally keen to shine a light on our other leading business sectors, and despite being responsible for 45,000 Midlands jobs, aerospace has been something of a "hidden gem."

So, I am especially pleased to welcome the second edition of Aerospace Forum Birmingham to the International Convention Centre of our region's capital city on 19-21 March. I know the Midlands Aerospace Alliance annual conference on Day One and the pre-arranged business-to-business meetings on Days Two and Three will prove of immense value to our own companies and to our many very welcome guests coming from aerospace businesses around the world.

I visited Collins Aerospace in Wolverhampton and Mettis Aerospace in Redditch right at the start of my time as Mayor. So I have seen first-hand how our brilliant companies and their expert employees are designing and making sophisticated parts and components for aircraft made in the four corners of the globe.

We are all committed to the success of our region's fantastic aerospace sector – and to your business success wherever you may be travelling from – and I look forward to meeting you in person at Aerospace Forum Birmingham 2019 and to working closely with you in the future.

WHAT'S ON THE AGENDA FOR 2019?

DAY 1

CONFERENCE

19-21 MARCH
ICC
BIRMINGHAM

SESSION 1: GLOBAL GROWTH

– get even more business benefit!

SESSION 2: NATIONAL UNCERTAINTY

– mitigate against the risks of Brexit!

SESSION 3: BOOSTING MIDLANDS AEROSPACE

– work together for mutual benefit!

NETWORKING RECEPTION

To book your place at the MAA Conference visit www.midlandsaerospace.org.uk.

DAYS 2 & 3

ONE-TO-ONE MEETINGS

A two-day matchmaking event based on pre-arranged meetings organised by BCI Aerospace.

Meet buyers and engineers from **Boeing, Rolls-Royce, Honeywell, Collins Aerospace, Moog, ITT, Comac**, and more... who are attending the Forum.

For more information, including details of costs and how to book meetings, visit www.birmingham.bciaerospace.com.

#AFB2019

BRINGING GLOBAL AEROSPACE TO BIRMINGHAM

A MAJOR CONFERENCE AND TWO DAYS INTENSIVE B2B MEETINGS, 19-21 MARCH, INTERNATIONAL CONVENTION CENTRE, BIRMINGHAM

 Aerospace Forum Birmingham (AFB) is a major aerospace event for aircraft and engine makers, first-tier suppliers and the entire supply chain.

On Day One, AFB features the superb MAA Annual Conference, complete with keynote speeches from industry leaders and plenty of opportunities for networking (for speakers, see page 7).

On Days Two and Three AFB features intensive B2B matchmaking meetings. Engineering, procurement, supply chain, manufacturing, commodity teams, suppliers and service providers will hold a series of pre-arranged meetings.

The B2B meetings offer all participants the opportunity to sign up, identify, and request meetings with relevant contacts prior to the event. Schedules of meetings, based on those choices, will be organised. The one-to-one meetings will be held at the same venue, the International Convention Centre (ICC) in Birmingham.

Confirmed big companies that will be present are: **Boeing, Rolls-Royce, Honeywell, Collins Aerospace, Moog, ITT, Comac**, and more...

There will be international contingents from **France, Italy, Poland, USA, Spain**, and more...

BOOK NOW

FOR INFORMATION ON THE B2B MEETINGS, THE COST, AND HOW TO BOOK, VISIT: WWW.BIRMINGHAM.BCIAEROSPACE.COM



LEARN FROM INDUSTRY EXPERTS, NETWORK WITH CUSTOMERS, SUPPLIERS AND PEERS, HOLD INTENSIVE B2B MEETINGS.

THIS YEAR'S CONFERENCE SPEAKERS

This year's speaker line up is just as exciting as the last with industry leaders from across the aerospace sector:



SIMON J BURR
*Director, Engineering & Technology
– Civil Aerospace
Rolls-Royce plc*



ANNETTE ROTHWELL
*Senior Vice President Operations
Excellence
Esterline Technologies
Corporation*



MIKE PLATT
*Senior Vice President and
General Manager Thermal
Management
Meggitt Engine Systems*



DAVID BEST
*Head of Business and Strategy
Airbus in the UK*



EDWARD DRYDEN
*Vice President, Actuation Systems
Collins Aerospace*



FRANK JANSEN
*Managing Director
Netherlands Aerospace Group*



STEPHEN PHIPSON CBE
*Chief Executive
EEF, the manufacturers'
organisation*



CHRIS GANE
*Business Specialist Aerospace
Department for
International Trade*



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Located at the centre of the Midlands aerospace cluster in the UK, **Business Birmingham** provides outstanding and award-winning services.

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#AFB2019

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This year's Gold Sponsor of the MAA Annual Conference are American Express. American Express have recently launched multiple B2B cash flow solutions for both buyers and suppliers, which allow your business the power to grow through effective Working Capital Management.

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“ I could never understand why aerospace hadn’t adopted the quality planning and approval processes used in the automotive industry. ”

Steve McMulkin, Group Quality Manager at Meggitt PLC, says some key changes that are needed in aerospace manufacturing are happening right now, as the industry takes a leaf out of the automotive sector’s book.

Q. HOW DID YOUR CAREER START IN THE AEROSPACE SECTOR?

A. I was working in automotive for 30 years before I joined Rolls-Royce in 2011. In 2009, ITW decided to close down the metals group in the UK and Hungary and retain the Czech Republic sites. I had responsibility for the UK and Czech sites, and as I was based in the UK, I was asked to stay to the bitter end! You know the saying, last one out turns the lights off! Well, that’s exactly what I did, turned the lights off and handed the keys to the security team. I stayed in automotive for a couple of years before joining Rolls-Royce in Derby as their Customer Quality Manager. I started at Meggitt in 2015.

Q. WHAT’S BEEN THE NO.1 HIGHLIGHT OF YOUR CAREER SO FAR?

A. Difficult one, there have been many. My first role back in the 1980s as a Quality Inspector always keeps me grounded. Back then, I didn’t have the qualifications to get on the technician course to complete the ONC/HNC, so my mentor and Quality Director took the college principal out to dinner to get me on the course! I couldn’t let them down, so didn’t miss a day and completed my HNC four years later. Receiving an MBA five years ago is another key highlight.

Q. WHAT DO YOU FIND MOST REWARDING ABOUT YOUR CURRENT ROLE AND WHY?

A. This is the first group role I’ve had, which involves influencing and understanding your stakeholders. It did frustrate me at first, as I just wanted to get on with stuff and cut through the bureaucracy. I really enjoy it now and it’s great to see the business becoming ‘One Meggitt.’



“The tools used in zero defects are what I’ve grown up with - it’s great to pass on my knowledge and experience.”

Q. WHAT ARE THE MAIN PROJECTS YOU’RE CURRENTLY WORKING ON?

A. I’ve just been appointed acting Head of Manufacturing Quality – Zero Defects. Meggitt has its own zero defects programme that will make a huge difference to the way we approach manufacturing problems and prevent the re-occurrence of defects. The tools used in zero defects are what I’ve grown up with – it’s great to pass on my knowledge and experience.

Q. WHAT’S THE BIGGEST LESSON YOU’VE LEARNT IN YOUR CAREER?

A. Never assume anything!

Q. WHAT ARE THE MAIN CHANGES THAT NEED TO TAKE PLACE IN AEROSPACE MANUFACTURING RIGHT NOW?

A. They’re happening now! I could never understand why aerospace hadn’t adopted the Advanced Product Quality Planning (APQP) and Product

Part Approval Process (PPAP) that’s used within the automotive industry, as lots of issues in the aerospace sector were caused by ineffective new product introduction processes. When quality isn’t being built in to products or processes, sites then get stuck with issues for many years! The whole situation’s been changing for a few years now and good progress is being made on this front at Meggitt.

Q. WHAT’S THE BEST PIECE OF ADVICE YOU’VE RECEIVED AND WHO WAS IT FROM?

A. My dad – ‘you don’t earn money lying in bed.’ From a very early age, my father instilled a strong work ethic in all of his children. At 14, I had a morning paper round and worked in the local fish and chip shop, slicing potatoes in the evenings!

Q. WHAT’S THE BEST PIECE OF ADVICE YOU’VE GIVEN AND WHO DID YOU SHARE IT WITH?

A. You get out what you put in. I keep telling my 18-year-old this, but he still prefers his Xbox! I truly believe that if you work hard and do your best then the rest will fall into place.

Q. WHAT WOULD YOU LIKE TO ACHIEVE AS A RESULT OF BEING A DIRECTOR ON THE MAA BOARD?

A. A far bigger profile in the MAA than Meggitt has today. I’m currently working on this and the Meggitt leadership team are serious about making it happen, so watch this space.

Q. DESCRIBE THE MIDLANDS AEROSPACE SECTOR IN ONE WORD

A. Enabler.

 www.meggitt.com

BIRMINGHAM - AEROSPACE WORKSHOP OF THE WORLD



Bromford Industries – a Birmingham company with a global reputation

➔ 'Workshop of the world', a title given to the Midlands as cradle of the industrial revolution, is just as applicable in today's aerospace industry – and it's as true in Birmingham as anywhere else in the region.

Aerospace manufacturing is sometimes hidden away behind the car industry, but in fact the aerospace and motor industries are both 100 years old and have been intertwined for much of that history. Many of Birmingham's great manufacturing brands have supplied their specialist skills to both sectors. Take Concorde, for example (see page 3). Dunlop supplied Concorde's tyres and Lucas its fuel pumps. Further back in time, in both world wars the city's car factories transformed themselves into mass producers of aircraft.

Today, there are more than 200 companies and organisations active in the aerospace industry in the greater Birmingham area, and almost 100 in the city alone. About a third of these make flying parts which go on to aircraft, with the remainder providing the specialist equipment for testing, manufacturing or specialist services – such as R&D, engineering design and

training – that Birmingham excels in. The city hosts activities at every level of the supply chain, from raw materials to complex components. And that's not counting the companies linked to the aviation industry – such as businesses involved in Birmingham Airport.

More broadly, Birmingham sees itself at the centre of a wider aerospace industry that stretches across the whole of the Midlands (even if the odd rival place might take issue with Birmingham's perspective!), one of the world's biggest aerospace clusters. Little wonder the Mayor of the West Midlands, Andy Street, was guest of honour at the MAA annual dinner in the city in 2017, or that from March 19 to 21 this year, the UK's second city will play host to the second global Aerospace Forum Birmingham (see page 5).

Birmingham will most certainly continue to be an 'aerospace workshop of the world' for many years to come. Now, for those of you who fancy yourself as being a bit of a Birmingham aerospace buff, our little quiz will test just how much you really do know....



AE Aerospace's recent move keeps its operations in Birmingham

BIRMINGHAM AEROSPACE

Q U I Z

- A** Which Birmingham company made Concorde's cockpit glass and electrically-heated windscreens to withstand high continuous cabin pressurisation at 60,000ft, with outside temperatures ranging from -50 degrees C to +120 degrees C?
- B** More than half of which famous WW2 aircraft were made in Birmingham?
- C** Which is Birmingham's biggest aerospace company?
- D** What do the majority of Birmingham's smaller aerospace manufacturers do?
- E** Which two metals commonly used in aerospace are made in Birmingham?

A TripleX, now GKN Aerospace Transparency Systems in Kings Norton.
B A purpose-built factory in Castle Bromwich produced more than half of all Spitfires. The site is now Jaguar Land Rover.
C Rolls-Royce, with its brand new engineering and manufacturing facility near Birmingham Airport, making electronic and mechanical control systems for jet engines. This same business was previously named Lucas, TRW, Goodrich and Aero Engine Controls.
D They are highly specialised engineering companies that machine blocks of metal into very precise intricate shapes that become parts of wings, engines, landing gear and fuel systems.
E Titanium at Timet in Witton and aluminium at Arconic in Kitts Green.



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INSIDE THE MAA BOARDROOM



The major aerospace companies Collins Aerospace, Meggitt, Moog Aircraft Group and Rolls-Royce are permanently represented on the MAA board of directors by senior managers. MAA members elect additional directors for two-year terms. Other directors are appointed to ensure that a variety of expert perspectives from across the Midlands aerospace cluster are brought to bear on board decision-making.

WHO'S WHO

MAA Directors representing Derby City Council and the university sector are currently in transition.



PETER BRUCH
Managing Director and Co-Owner AE Aerospace

Peter is a member of the MAA Supply Chain Performance Group. He champions opportunities for small companies.



STEVE CHEETHAM
Managing Director PK Engineering

Steve's previous career in the City of London gives him a great insider/outsider perspective on the opportunities and challenges facing the small aerospace manufacturer.



DAVID DANGER
(MAA Chair)
Managing Director of NDT and Material Testing Services Intertek plc

David chairs the MAA Finance Committee and previously chaired the MAA Business Development Group. A key aim is achieving financial sustainability of the organisation by serving members as well as possible.



DR ALAN DUFFIELD
Group Business Development Manager

Winbro Group Technologies
Alan designed the MAA membership model in which all members pay the same subscription fee and has seen the organisation become one of the world's biggest regional aerospace bodies. He is also a member of the MAA Finance Committee.



ROBIN HILL
(Chair of MAA Technology Development Group)
Head of Electronics Rolls-Royce

Robin has led Rolls-Royce support for the MAA's work to mature new technologies at aerospace suppliers since 2013. His working group is now looking at other ways the MAA can support small Midlands aerospace companies to move their innovative ideas closer to market.



NEIL HOLMES
Managing Director Columbia Precision

Neil makes sure the perspective of small and medium companies is always heard at MAA Board meetings. His company regularly exhibits with the MAA at the Farnborough and Paris airshows.



STUART MCLACHLAN
Group VP & GM Moog Aircraft Group UK & Aircraft Control Components Sector

Stuart leads Moog teams in Wolverhampton, Tewkesbury, East Aurora (USA) and Baguio (Philippines). He serves on the MAA Finance Committee and frequently proposes great solutions to any issues.

OUR THANKS TO NEIL

Neil Rawlinson, Strategic Development Director at the Manufacturing Technology Centre, recently retired from the Board after 14 years of service. While Research and Technology Director at Goodrich Engine Control Systems, in 2005 Neil became the first Chair of the MAA Technology Development Group, then continued to serve as an MAA Director. It was Neil and MAA chief executive Andrew Mair who set up the original Aerospace Technology Exploitation Programme (ATEP) in 2005. With its national successor, NATEP (about to start its third phase), the scheme has now supported smaller aerospace supply chain companies to develop more than 150 new product and process technologies – that’s ten new projects every year. Thank you Neil, from us all, and of course we’ll be continuing to work closely with you.



STEPHEN MCMULKIN
Group Quality Manager
Meggitt PLC

Most recently, Steve has been developing plans to get Meggitt even more closely involved in the MAA’s work to support the supply chain.



JAY PATEL
Business Development Manager
City of Wolverhampton Council

Jay continues to be one of the solid links the MAA really values into the workings of local government and local enterprise partnerships.



ANNETTE ROTHWELL
(Chair, MAA Supply Chain Performance Group)
Senior Vice President Operations Excellence
Esterline Technologies Corporation

As well as chairing one of our working groups, it was Annette’s idea to organise annual in-depth “Inside... with the MAA” events for Midlands aerospace suppliers to visit key customer sites across the region.



PETER SMITH
(MAA Vice Chair)
Chairman and CEO
Nasmyth Group

Peter is a widely respected leader of the UK aerospace supply chain community and his wise counsel means the MAA is constantly evolving and improving.



WENDY STOPHER
(Chair, MAA Business Development Group)
Head of Group Procurement
Rolls-Royce

Wendy has been leading the Business Development Group’s work to help deliver the most effective support possible to MAA members. Wendy and the group led on the recently launched MAA annual awards.



LISA SWAN
Operations Director and Site Lead
Collins Aerospace, Wolverhampton

Lisa has been with Collins Aerospace for a year in this role, recently joined the MAA Board and will be supporting a new MAA initiative on diverse workforces.



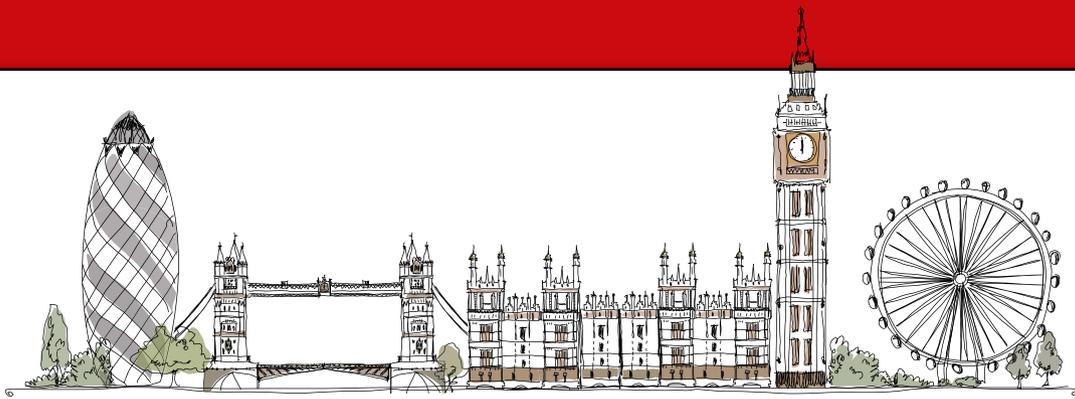
TONY TINLEY
Regional Officer
Unite the Union

Tony supports the MAA on everything to do with developing people and their skills, most recently in discussions on raising employee diversity and actions to help keep skilled people leaving Rolls-Royce find alternative jobs in the region.



DAVID WHIFFIN

New to the Board, David is an experienced business leader with over 20 years experience in aerospace working in aircraft maintenance, manufacturing and consultancy. Member of the MAA Business Development Group.



VIEW FROM THE WESTMINSTER LOBBY

“This sector deal provides up to £125m Government investment”

Paul Everitt, ADS CEO and FIL Chairman outlines the government’s modern industrial strategy for aerospace.



 In December last year, the Government announced the next step in the industrial strategy programme for aerospace, with the launch of a new Aerospace Sector Deal.

This sector deal provides up to £125m Government investment in a Future Flight Challenge to develop new technology such as electric aircraft and urban air vehicles. This major public investment from the Industrial Strategy Challenge Fund will be at least matched by investment from industry.

Developing new technologies like these here in the UK has the potential to deliver jobs, prosperity and significant environmental benefits, by further reducing noise and carbon emissions associated with aviation.

The sector deal commits a further £14m to the successful National Aerospace Technology Exploitation Programme (NATEP) and supports the launch of SC21 Competitiveness & Growth, a supply chain productivity programme that will receive £10m funding from each of industry and Government. This is a package designed to help SMEs meet the intensifying challenge from international competitors.



The new sector deal includes the launch of the UK Aerospace Research Consortium, bringing together the leading aerospace universities and research organisations to ensure more collaboration and closer alignment with industry priorities.

The sector deal also sees the launch of the Women in Aviation and Aerospace Charter, a commitment to greater gender balance in our companies and to ensure businesses are doing more to encourage diversity and inclusivity at work.

A strong long-term partnership between Government and industry is essential for UK aerospace to meet the challenges of global

competition and new market opportunities. This Aerospace Sector Deal demonstrates the UK’s commitment to continue as one of the most attractive locations for the global aerospace and aviation industries.

The Future Flight challenge will ensure the UK takes a lead in delivering cleaner, quieter and more innovative aircraft. We must fast-track the electrification of flight, exploit the global potential of new urban mobility solutions and pioneer autonomous aviation.

Developing the technologies needed to make the future of aviation a reality here in the UK will take commitment and imagination, and this sector deal is an important step towards that goal.

As the UK faces the headwinds of Brexit, industrial strategy can be vital to making sure we continue to maximise our productivity and our innovative potential. Companies can keep up to date with all the latest developments on Brexit for our sectors by visiting our Brexit Hub – <https://www.adsgroup.org.uk/industry-issues/brexit-hub/>



www.adsgroup.org.uk

FOR YOUR DIARY

ONLINE: WWW.MIDLANDSAEROSPACE.ORG.UK/EVENTS

CALENDAR

The MAA organises more than 20 events a year

DRAMA GOES TO GKN
30 April 2019
GKN Aerospace, Bristol

Come along to the next *UK Aerospace Additive Manufacturing in the Supply Chain* event, which is being organised as part of the DRAMA programme.

MAA ANNUAL DINNER
10 October 2019
Council House, Birmingham

Our hugely popular business networking evening will be returning to Birmingham's fabulous Council House. Make sure you secure your seat.

AEROSPACE FORUM BIRMINGHAM 2019
19-21 March 2019
ICC, Birmingham

Take part in this supply chain event that brings together aircraft, engine and first-tier systems makers with the entire supply chain over three days, starting with the MAA Annual Conference.

PARIS AIR SHOW
17-23 June 2019
Le Bourget Parc des Expositions

Attend the 53rd Paris Air Show and take part in the largest aerospace trade show in the world, which is home to global industry leaders and the very latest technological innovations.



For further information and to book your place at an MAA event, please visit www.midlandsaerospace.org.uk/events

ABOUT THE MAA...

The Midlands Aerospace Alliance (MAA) is the voice of companies in the British Midlands supplying global aerospace. Its 300 member organisations range from global aerospace players to SMEs. The MAA board comprises senior managers from Collins Aerospace, Meggitt, Moog Aircraft Group and Rolls-Royce, elected supply chain representatives and key regional partner bodies.



For additional copies of *Midlands Aerospace*, or to add your colleagues to the distribution database, please contact the MAA by any of the means below.

If you have a query or suggestion that you would like to make please contact the MAA.

T: +44 (0) 2476 430250
F: +44 (0) 2476 430251
E: info@midlandsaerospace.org.uk

NEW MEMBERS

The MAA welcomes the following new members

AFFLUENT TECHNOLOGY

Coventry
Provides engineering and IT support for the aerospace engineering sector.

BAMPTON PACKAGING

Nottingham
Manufacturer of timber and composite packing cases.

BARPOINT

Willenhall
UK specialist stockist and supplier of stainless steel bar, titanium, nickel alloys, aluminium.

CROSS MANUFACTURING (1938)

Bath
Manufacturer of metallic sealing rings, brush seals, retaining rings for aerospace.

ESSEL ACOUSTICS

Edgware
Consultancy service for occupational noise and vibration control (hand, arm, whole body).

GLEESON RECRUITMENT

Birmingham
Recruitment agency specialising in engineering and manufacturing.

GOWLING WLG

Birmingham
Law firm with more than 1,400 legal professionals in 18 cities globally.

LASER LINES

Banbury
Provider of industrial lasers for marking, welding, drilling, cutting and hardening.

NOA CERTIFICATION

Houghton Regis
Certification body for the aviation and aerospace industry.

PRIORITY FREIGHT

Coventry
Professional contingency transport and logistics services.

RDT ENGINEERS

Derby
Providing outsourced engineering solutions across multiple sectors.

SANDWELL UK LTD

Towcester
Providing controlled shot peening, specialist paint coatings and surface finishing.

SIGMA ASL

Leigh on Sea
Manufacturing solutions provider to the global automotive industry.

SMARTWATER TECHNOLOGY

Telford
Creator of traceable liquids that can be applied to components.

TECHSIL

Bidford-on-Avon
Specialist distributor of industrial adhesives, sealants, tapes, etc. and dispensing equipment.

TEST-FUCHS

Peterborough
Creator of test systems for aircraft manufacturers and component OEMs and MRO operations.

TORISHIMA SERVICE SOLUTIONS EUROPE

Leamington Spa
Design, manufacture, commission and maintain application critical hydraulic systems.

Become a member of the MAA and join the 300+ other companies and organisations who are already enjoying the benefits of belonging to one of Europe's largest aerospace industry regional bodies. It costs your company only £595 per year if you are in the Midlands or £950 if not.



www.midlandsaerospace.org.uk/maa/join-the-MAA



midlands aerospace alliance



midlands aerospace alliance

ARE YOU ON BOARD?

There has never been a better time to join the MAA.

Globally, the aerospace industry is growing at a phenomenal rate. Here in the Midlands, our members are making the most of the opportunities with our support. Whether you are a Tier 1, a components manufacturer or a service provider in an allied industry, you can access a wide range of benefits to help your company grow.

If you are already operating in this sector, or you're looking to diversify, there's never been a better time to be a member of the MAA, so make sure you're on board.



JOIN OR UPGRADE NOW

MEMBERSHIP BENEFITS

Our standard membership offers great value and is the same price whatever the size of your business. Our aim is to offer our members access to a growing network of companies that are all proactively looking to maximise opportunities in aerospace.

The annual membership fee is £595 for Midlands-based companies and £950 for companies outside the Midlands.

- A proactive network with access to member companies
- Conferences, events and trade delegations
- Inclusion in the annual Capabilities Directory
- Helping you to get your voice heard through media, lobbying and campaigning
- Three magazines a year

£595
MIDLANDS
BASED

£950
OUTSIDE
MIDLANDS

For details of all our member benefits visit our website.

UPGRADE TO THE NEW PRIME MEMBERSHIP PACKAGE

- Available to all existing and new members
- MAA membership for 12 months
- Silver sponsorship of MAA Annual Conference
- Silver sponsorship of the MAA Annual Dinner
- Table for 10 at MAA Annual Dinner
- Two tickets for the MAA Annual Conference
- A place at an "Inside . . . with MAA" visit to a major aerospace company
- Grant funding eligibility "health-check" by MAA experts
- ¼ page advert in the MAA's Midlands Aerospace magazine
- Enhanced entry in MAA Capabilities Directory
- Sponsorship of two MAA e-letters
- Sponsorship of MAA website

Package cost for 2019-20: £5,975

Actual value of package at least: £9,460

£5,975
FOR 2019-20

WWW.MIDLANDSAEROSPACE.ORG.UK

CONTACT THE MAA TEAM ON 02476 430 250
OR INFO@MIDLANDSAEROSPACE.ORG.UK