

# desider

**Issue 134**  
**September 2019**

*the magazine for  
defence equipment  
and support*

**DE&S apprentices  
excel at prestigious  
engineering competition**





# Proud to support

We are proud to work side by side with the men and women who keep us safe. In collaboration with our partners, we are designing new ways to support the Royal Navy in the important work they do. Increasing productivity, reducing costs and improving quality and safety. It's a critical part of how we give our customers more of what they need.

**Commitment where it counts.**

# Foreword

**"These visits were a reminder to me about how lucky we are at DE&S to have such a talented and dedicated workforce"**



By Sir Simon Bollom, CEO

I hope most of you had the opportunity to take a break over August and are ready to take on any fresh challenges we may face as we move into what is a very busy time for Defence.

During Exec Connect my team will be visiting RAF Coningsby and Marham, HMNB Devonport, Bicester and Yeovil and our Defence Munitions sites at Kineton, Gosport, Beith and Longtown, as well as engaging with staff at MOD Abbey Wood.

In addition to sharing with you our current priorities within Defence and updating you on what changes we have made and will make, to make DE&S a great place to work, it's also a chance for you to tell us how we can make your role even better, so please do grasp this opportunity.

This month Desider covers the Service of Dedication for the fourth and final Tide-class tanker, RFA Tideforce, meaning the entire Tide-class tanker fleet is ready to supply Royal Navy ships on operations around the world with fuel and water.

In the Air domain, it reports that our Typhoon delivery team secured a contract worth almost £350 million with Rolls-Royce to support the engines that power the UK's fleet of Typhoon fighter jets.

And in Land, you can read about how Boxer, the key platform intended to re-equip the British Army and enable the new Strike Brigades, has been put through its paces.

Finally, I must mention Sarah Lougee from the Corporate Communications and Change team at Abbey Wood, who has been recognised by the Royal Humane Society after helping police talk down a distressed teenager from a roof in what was a life-threatening situation. Well done.

Enjoy the issue.

Appreciation of what we do was also evident across both our excellent Families Days at MOD Abbey Wood again this year, where it was fantastic to see thousands of our employees bring their loved ones to see what DE&S is all about. I know putting these on takes a huge amount of effort so thank you to all of those involved in making them such a success.

Looking ahead, it's going to be a busy September with both DSEI and the Exec Connect Roadshows taking centre stage.

DSEI is the world's largest Defence and Security exhibition and represents an invaluable opportunity to meet with key contacts from across the entire supply chain for defence. As you can imagine my diary, like many others visiting, is incredibly busy.

**Editor:**

Tom Morris - 9352 37888 or  
0117 9137888  
[tom.morris114@mod.gov.uk](mailto:tom.morris114@mod.gov.uk)

**Contributors:**

Laura Martin Plaza, Louise Allford, Lowri Jones, Leah Ginnelly and Louisa Keefe

**Photography and Design:**

Katherine Williams, Charlie Perham, Jack Eckersley, Beth Squire, Andrew Linnett and Mark Hawke

**Distribution Manager:**

Dick Naughton - 9352 34342 or  
0117 9134342  
[Dick.Naughton501@mod.gov.uk](mailto:Dick.Naughton501@mod.gov.uk)

**Advertising Manager:**

Edwin Rodrigues  
[edwin.rodrigues@noahsarkmedia.com](mailto:edwin.rodrigues@noahsarkmedia.com)  
+44 (0) 748 257 1535

**Printing**

[cds.co.uk](http://cds.co.uk) 

*desider* is distributed free to DE&S employees and the equipment capability organisations. Copies may be sent to readers outside MOD, including in the defence industries and is published on the world wide web via GOV.UK. While the editor takes care to ensure all material produced is accurate, no liability can be accepted for errors or omissions. Views expressed in *desider*, and products and services advertised, are not necessarily endorsed by DE&S or the MOD. All editorial submissions must be cleared by the relevant MOD authorities.

© Crown Copyright

This magazine is printed on Novatech Matt FS 100gsm which is Forest Stewardship Council certified material from well-managed forests and elemental chlorine free.



# Contents

## On the cover

DE&S apprentice competing in annual engineering competition

Photo by Jack Eckersley

[www.gov.uk/government/publications/desider-2019](http://www.gov.uk/government/publications/desider-2019)

**Twitter:** @DefenceES

**Facebook:** @DefenceES

**LinkedIn:** Defence Equipment & Support

**YouTube:** DE&S

- 06 **Senior Leader Comment** – Vice Admiral Chris Gardner

## News

- 08 **First steel cut for HMS Cardiff** Defence Minister Anne-Marie Trevelyan cuts steel on second Type 26 frigate
- 09 **Typhoon** delivery team secure contract to power the UK's fleet of fighter jets
- 14 **Tom Nevard** Apprentices compete in annual engineering competition
- 22 **Tideforce** Service of Dedication ceremony marks end of tanker acquisition programme
- 28 **DE&S apprentices** transform primary school playground

## Feature

- 12 **Sarah Lougee** receives Certificate of Commendation from Royal Humane Society
- 24 **Families Days success** all the hard work pays off

## DE&S People

- 16 **First Person** – Commodore Martyn Williams
- 26 **Ian Fereday** wins gold in UK Invictus Trials
- 30 **60 Second Spotlight** – site manager Mark Champion
- 32 **DE&S People** – Sarah Anderson, project professional graduate
- 34 **Jobs** – Desider's latest recruitment pages and benefits

## Vice Admiral Chris Gardner, Chief of Materiel (Ships), talks to Desider about his role, his 'customer experience' and his priorities for the months ahead



This is my first Senior Leader Comment since I joined DE&S as Chief of Materiel (Ships) on 1 April 2019. I suspect that, for many of you, this is also the first time you're hearing from me, so it's a pleasure and privilege to meet you.

By way of a quick introduction, I started my career back in 1984 in the Royal Navy, and have a background as a submariner and logistician, which has given me an operational focus. Throughout my career I've had spells within the Defence Procurement Agency and Defence Logistics Organisation, which brought me into the acquisition field, whilst time in the MOD exposed me to complex programme management and business transformation.

But even with all the experience I've built up across my 34-year career, nothing quite prepares you for the sheer size, scale and complexity of working within DE&S – the past five months have been a steep learning curve!

The chance to take on this role as Chief of Materiel (Ships) is a fantastic opportunity. While my role is to run the Ships domain and lead the business as a member of the DE&S Executive

**We have a very talented and dedicated workforce. Investing in our staff and empowering them to take the lead in their day-to-day roles is vital**

Committee, I'm also acting as the bridge to the customer – in our case the Royal Navy – and strive to build a 'one team' approach to the way we do business.

In my previous role as Assistant Chief of the Naval Staff (Ships), I was that customer and I hope that experience and insight helps me better understand their requirements. I remain committed to providing the Royal Navy with the kit and capability it needs, especially now we have new ships on the order books. I want to be able to deliver real transformation to ensure the service is fit for the future.

I have three main areas of focus for the coming months. Continuing to deliver for the customer and driving performance from industry is my first. My second is to continue to grow the business and improve our ways of working to ensure we are fit for purpose in the years ahead. My final priority is very much a people focused priority.

We have a very talented and dedicated workforce. Investing in our staff and empowering them to take the lead in their day-to-day roles is vital if we are to become the organisation we aim to be.

Driving our continuous improvement underpins all these priorities. We need to have a more strategic mindset so that we're planning ahead over a longer time frame, with better milestones and targets, that drive performance and empower our teams to deliver at pace and with agility.

All of the above are our route to achieving our vision of DE&S @21 and delivering our three 'Gs' – great delivery, great people and a great place to work.

# JLTV PROTECTS THOSE WHO PROTECT US.

OSHKOSH DEFENSE® JLTV

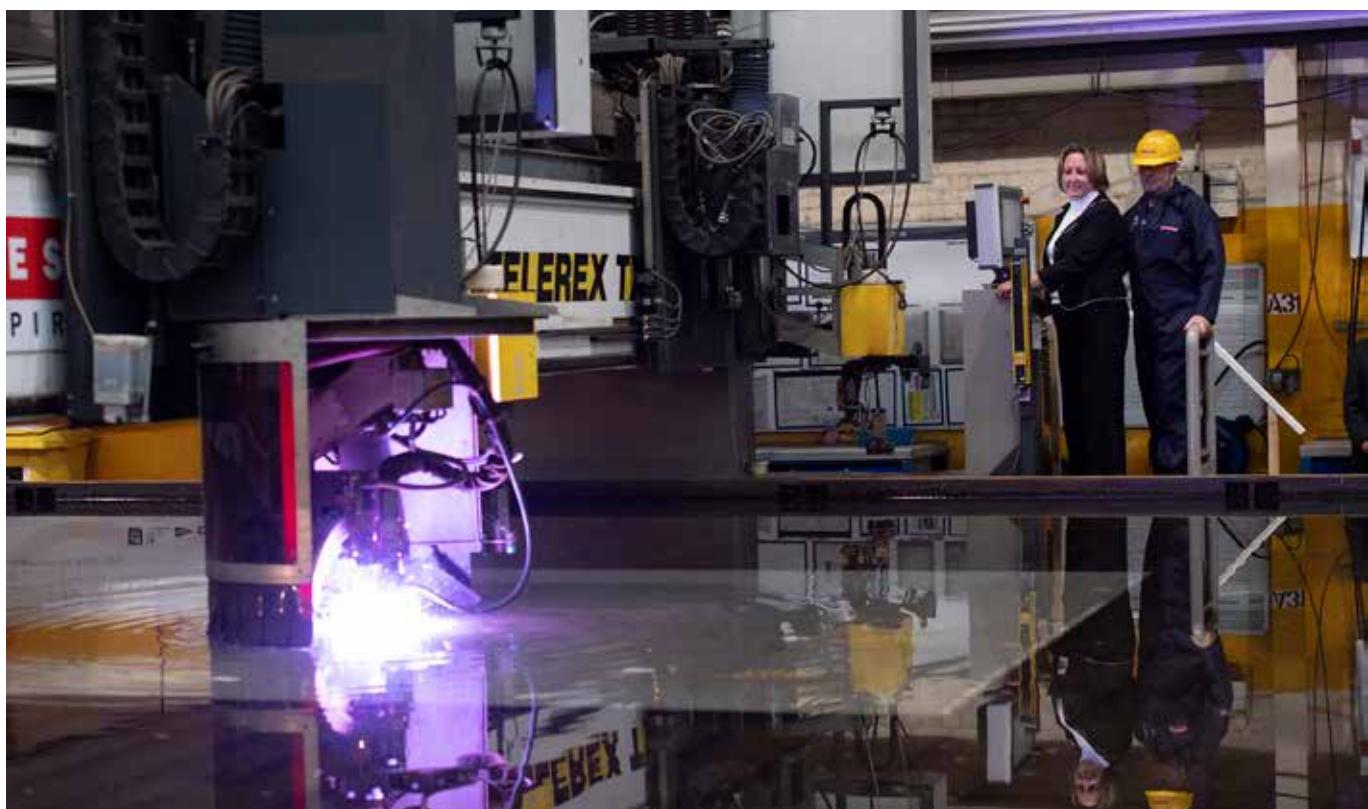
**FAST. LIGHT. SAFE.**

With scalable levels of protection, TAK-4<sup>TM</sup> intelligent independent suspension system, and remarkable power in a lightweight vehicle, the Oshkosh Defense JLTV brings speed, performance and protected mobility wherever it is needed.



# First steel cut for HMS Cardiff

Pictured: Minister for Defence Procurement Anne-Marie Trevelyan cuts steel for HMS Cardiff (Picture by Andrew Linnett)



The first steel has been cut for HMS Cardiff, the second ship in the Royal Navy's next generation of Type 26 anti-submarine frigates.

Defence Minister Anne-Marie Trevelyan cut the steel for the UK's newest warship at a ceremony at BAE Systems' shipyard in Govan on the River Clyde.

Marking the official start of build on the second of eight City Class vessels, it also represents another significant milestone for the Type 26 programme, the Royal Navy, UK Defence and shipbuilding in Scotland.

All eight Type 26 frigates will be built on the Clyde, with the work sustaining some 1,700 jobs in Scotland and 4,000 jobs across the wider UK maritime supply chain for decades to come.

Chief of Materiel (Ships), Vice Admiral Chris Gardner, said: "Type 26 will form a key part of the Royal Navy's future balanced fleet, providing a core component of anti-submarine protection."

"The steel cut is another significant milestone in the delivery of the Type 26 programme, a programme that is sustaining thousands of UK jobs and future proofing our naval capability for years to come."

Michel Holstead, Type 26 head at DE&S, added: "The

**The steel cut is another significant milestone in the delivery of the Type 26 programme, a programme that is sustaining thousands of UK jobs and future proofing our naval capability for years to come**

Vice Admiral Chris Gardner,  
Chief of Materiel (Ships)

HMS Cardiff steel cut ceremony demonstrates continuing success in delivering the Type 26 frigate programme, which has already seen the construction of the first in class, HMS Glasgow, progress well. I am proud of this collective achievement by DE&S, the Royal Navy and our industry partner BAES and its suppliers."

The cutting-edge frigates for the Royal Navy will replace the current anti-submarine warfare Type 23 frigates and provide advanced protection to the continuous at sea deterrent and Queen Elizabeth Class aircraft carriers and offer unrivalled anti-submarine warfare capability.

Each Type 26 will be equipped with a range of capabilities, including the Sea Ceptor missile defence system, a 5-inch medium calibre gun, an embarked helicopter, medium range radar, powerful bow and towed array sonars, helicopter-launched torpedoes and a design which makes them extremely difficult for enemy submarines to detect.

They will be designed for joint and multinational operations across the full spectrum of warfare, including complex combat operations, counter piracy, humanitarian aid and disaster relief work.

Its flexible design will also allow

its weapon systems to be adapted throughout its lifespan to counter future threats. The Type 26 benefits from the latest advances in digital technologies, including 3D and virtual reality, which ensures that the ship's design is refined earlier in the process.

The first three ships, HMS Glasgow, HMS Cardiff and HMS Belfast, were ordered for £3.7 billion. HMS Edinburgh, Birmingham, Sheffield, Newcastle and London will form the second batch of Type 26 warships.

The first Type 26 warship, HMS Glasgow, will enter service in the mid-2020s. Designed for a service life of at least 25 years, the Type 26 frigates will serve in the future Royal Navy surface fleet into the 2060s. Both Australia and Canada have now chosen the Type 26 design as the baseline for their respective warship programmes.

The Type 26 manufacture batch 1 contract was signed in June 2017. This will deliver the first three ships to the Royal Navy and includes the necessary modifications to the Govan and Scotstoun shipyards. The procurement of batch 2 will be subject to a separate approval and contract which is expected to be awarded in the early-2020s.

# DE&S delivery team secure contract to power the UK's fleet of Typhoon fighter jets

Pictured: An RAF Typhoon intercepting Russian Military aircraft in June this year (Picture Crown copyright)



The DE&S Typhoon delivery team has secured a contract worth almost £350 million with Rolls-Royce to support the engines that power the UK's fleet of Typhoon fighter jets.

The £346.7 million contract will provide maintenance support for the EJ200 engine up to 2024 as the Typhoon continues to form the backbone of the RAF's fighter jet fleet.

Already this year, RAF Typhoon jets have led the fight against Daesh in Iraq and Syria as part of Operation Shader and undertaken Baltic Air Policing mission with NATO partners, with further NATO policing missions planned in Iceland later this year.

Sid Hallam, EJ200 operations manager in the Typhoon Propulsion team, part of the Typhoon delivery team, said: "The Typhoon Propulsion team carry out complex, critical work that makes an indispensable contribution to the Eurofighter Typhoon."

"Working across multiple locations the team is committed to making sure the EJ200 engine meets the highest of standards, which is vital to ensure the aircraft

**The DE&S Typhoon delivery team's dedication is fundamental in ensuring that the Typhoon aircraft remains the backbone of the UK's combat air power**

Air Commodore Paul Lloyd,  
Typhoon delivery team head

can fulfil its role as the UK's main combat air platform."

Rolls-Royce will repair and maintain the Typhoon engines as required by the RAF over the five-year period. They will also be responsible for the provision of modules, spares and accessories to support the aircraft fleet, including the transportation of the equipment between RAF bases and the Rolls-Royce manufacturing facility in Bristol.

Approximately 175 Rolls-Royce jobs in Bristol, RAF Coningsby in Lincolnshire, and RAF Lossiemouth in Moray, will be supported as part of the contract.

Air Marshal Julian Young, Chief of Materiel (Air), said: "Typhoon is a formidable, battle-winning aircraft and the backbone of UK combat airpower."

"This new deal on EJ200 engine is demonstrable evidence that we remain committed to working with our industrial partners to drive down support costs and at the same time pursue excellence and deliver great equipment to the front line."

Air Commodore Paul Lloyd, Typhoon delivery team head, added: "I am extremely proud

of the continued high level of commitment across the DE&S Typhoon delivery team. It is the teams dedication that is fundamental in ensuring that the Typhoon aircraft remains the backbone of the UK's combat air power."

The Typhoon force is operationally based at RAF Coningsby, RAF Lossiemouth, the Falkland Islands, and Amari Air Base in Estonia, where the aircraft respond to potential threats to UK air space in quick reaction alerts. Since arriving in Estonia on 3 May this year, the fleet has already scrambled 14 times in response to Russian activity over the Baltic Sea.

The Typhoon fleet has benefited from a £425 million upgrade programme over the last three years. The fighter jets now have deep strike cruise missile Storm Shadow, air-to-air missile Meteor and the precision attack missile Brimstone at their disposal. The RAF has also commenced trials on Typhoon of BriteCloud, a drinks-can sized missile decoy system to protect combat jets from the latest radar-guided missiles.



## DE&S welcomes distinguished guest

Professor Dame Julia King FREng FRS, Baroness Brown of Cambridge, visited Abbey Wood in her role as a member of the Defence Innovation Advisory Panel and the Defence Innovation Mentor to DE&S.

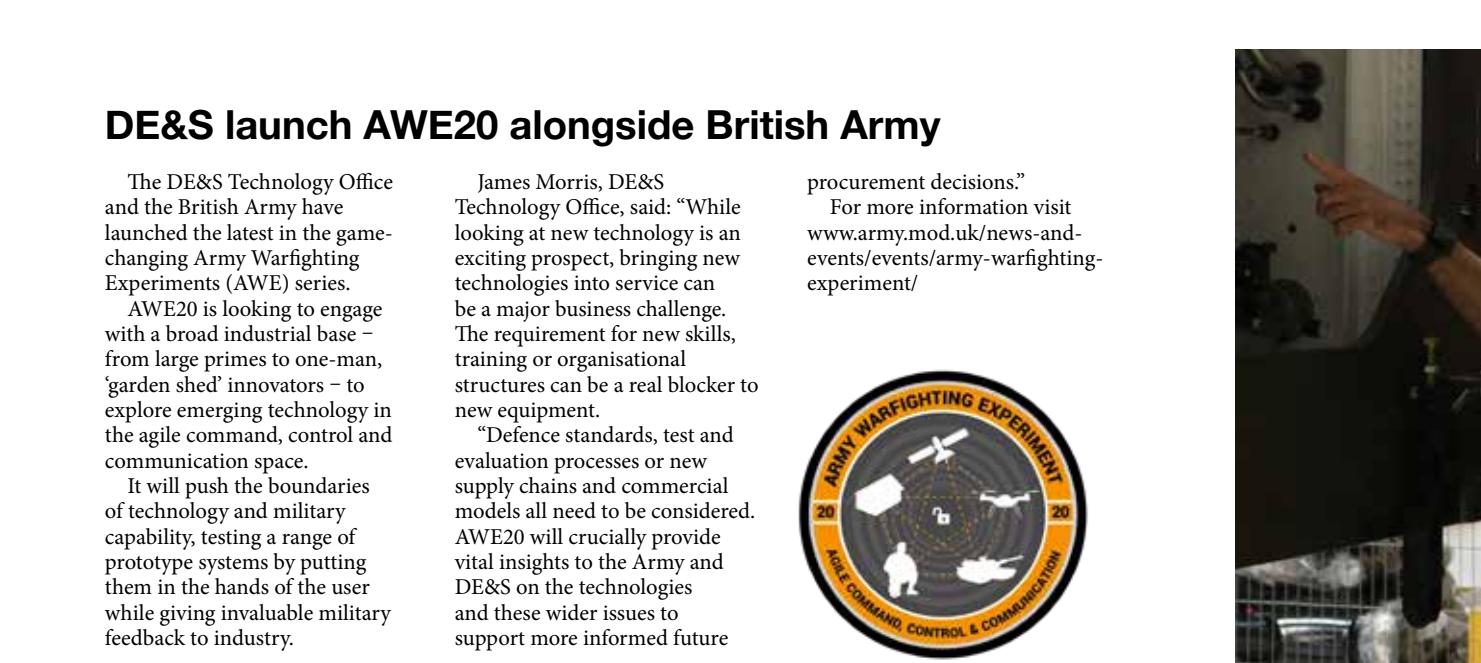
During her visit last month she met with DE&S CEO Sir Simon Bollom, Director Safety and Environment, Quality and Technology Tim Rountree, and key innovation leads from across the DE&S Domains.

She was briefed on several of DE&S' innovative programmes, including the Spearhead portfolio, and other initiatives to better pull-through technology at pace. Baroness Brown provided insightful suggestions on how DE&S could improve its links to other Government innovation

activities as well as its access to SMEs from across other sectors.

Baroness Brown is a government advisor on carbon-based fuels reduction and an expert in aerospace and marine propulsion. Her interest was drawn to the solar powered High Altitude Pseudo Satellite Operational Concept Demonstrator programme and the use of robotic and autonomous systems in future naval mine hunting.

She was interested to learn about DE&S' approach to supporting Defence experimentation and in particular the Army Warfighting Experiment and the nano Unmanned Aerial Vehicle experimentation programme.



## DESA complete sale of C130J

The Defence Equipment Sales Authority (DESA) has concluded the sale of a retired RAF C130J aircraft to the US Department of the Navy for use by the Blue Angels Air Display Team.

Similar to the RAF Red Arrows display team, the Blue Angels is the US Navy's flight demonstration squadron and they perform aerial displays annually in at least 60 shows at 30 locations throughout the US.

The Blue Angels formerly used a US Marine Corps Lockheed C-130T Hercules, nicknamed 'Fat Albert', for carrying spare parts, equipment and support personnel between shows. It would also open the Blue Angels' act by flying over crowds and performing manoeuvres.

Appreciating Fat Albert would need to be retired, the US Department of the Navy announced they were interested in buying a new C-130J from the RAF last year.

Negotiations have now completed and the aircraft has now been sold generating a significant return for the Front Line Command and UK tax payers.

Peter Williamson, DESA Air Equipment Sales team leader, said: "This aircraft sale represents a superb example of the close cooperation between the militaries of the United States of America and the United Kingdom."

## DE&S launch AWE20 alongside British Army

The DE&S Technology Office and the British Army have launched the latest in the game-changing Army Warfighting Experiments (AWE) series.

AWE20 is looking to engage with a broad industrial base – from large primes to one-man, 'garden shed' innovators – to explore emerging technology in the agile command, control and communication space.

It will push the boundaries of technology and military capability, testing a range of prototype systems by putting them in the hands of the user while giving invaluable military feedback to industry.

James Morris, DE&S Technology Office, said: "While looking at new technology is an exciting prospect, bringing new technologies into service can be a major business challenge. The requirement for new skills, training or organisational structures can be a real blocker to new equipment.

"Defence standards, test and evaluation processes or new supply chains and commercial models all need to be considered. AWE20 will crucially provide vital insights to the Army and DE&S on the technologies and these wider issues to support more informed future

procurement decisions."

For more information visit [www.army.mod.uk/news-and-events/events/army-warfighting-experiment/](http://www.army.mod.uk/news-and-events/events/army-warfighting-experiment/)





## Wildcat missile integration trials

Wildcat ZZ513 has taken to the air for the first time last month in a twin weapon wing and launcher configuration with Martlet dummy missiles.

This was a significant milestone in the Future Anti Surface Guided Weapons (FASGW) programme on its journey to delivering the FASGW light missile capability to the Royal Navy.

Following full system

integration rig testing earlier in the year, flight trials will continue to gather evidence to prove the integration of the missile system (including live firing to demonstrate end-to-end system operation), underpin system certification and provide a clearance for in-service use.

Additionally, environmental data is being gathered to support the missile system safety assurance

and establish air carriage life.

The FASGW programme is being primed by DE&S, with integration onto Wildcat by Leonardo Helicopters managed through the Yeovil based Wildcat delivery team, and the Thales supplied Martlet missile system managed by the Lightweight and Medium Attack Systems project team in Abbey Wood.

## Director Air Support on the road

Richard Murray, Director Air Support, has visited Marshall Aerospace and Defence Group (MADG) to see their engineering facilities, view the C-130J Centre Wing Replacement Project and meet staff.

During the trip he was given a tour of the site by Duncan Eldridge, MADG managing director Military Aerospace, where he saw the manufacturing facilities for the auxiliary fuel tanks for Boeing's P-8 fuel tank programme and other engineering support facilities.

He later viewed the trial aircraft for the C-130J Centre Wing Replacement Project before meeting with DE&S staff based at the MADG site to update them on

the successes and issues within the Air Support Domain as well as an update on wider DE&S initiatives.

Duncan said: "Our project managers and highly skilled technicians and fitters were delighted to welcome Richard and show the progress they've made in the Centre Wing Replacement. Our primary focus is protecting people in critical situations and providing the RAF continued outstanding availability of their C-130J fleet."



# Sarah recognised for talking distressed teenager down from roof

Pictured: Sarah Lougee receives her Certificate of Commendation from Charles Wyld, High Sheriff of Bristol (Picture submitted)



**D**E&S employee Sarah Lougee has been recognised by the Royal Humane Society for talking down a distressed teenager from the roof of a house.

Sarah, a member of the DE&S Corporate Communications team, was taking her two-year-old twin boys to soft play in South Gloucestershire when she came across the situation.

"I thought she may have been having a cigarette, but then I realised she was crying and saw the police car," Sarah said.

After calling a friend to come and look after the children she approached a police officer already on scene to offer her help as a trained mental health first aider. After police agreed to her helping, Sarah spent 40 minutes standing on the pavement building a rapport with the 15-year-old, even introducing her to one of her twins and telling her about the mischief her children get up to as a distraction tactic.

Sarah said: "I thought if I could keep her talking until the experts arrived, then it might be okay. She opened up to me about the problems she was having, and

**Sarah's intervention, caring and compassion meant the situation was resolved safely and more swiftly than it otherwise might have been**

Part of the citation from the Royal Humane Society

I reassured her that help was available, and that as long as she was alive things could get better.

"I told her that I believed she would overcome her difficulties – that one day she would be able to draw on this situation to help people in despair and show them there is always hope."

"Eventually I persuaded her to come back in off the roof. She asked to see me and gave me a big hug at the front door. We have stayed in contact and meet up over a milkshake to chat about how she is getting on."

Sarah's efforts were recognised by the Royal Humane Society and she was presented with a Certificate of Commendation for her selfless intervention in an emergency outside of work, by Charles Wyld, High Sheriff of Bristol.

Part of the citation read: "Sarah's intervention, caring and compassion meant the situation was resolved safely and more swiftly than it otherwise might have been. This situation could have potentially resulted in loss of life or serious injury to the girl involved."

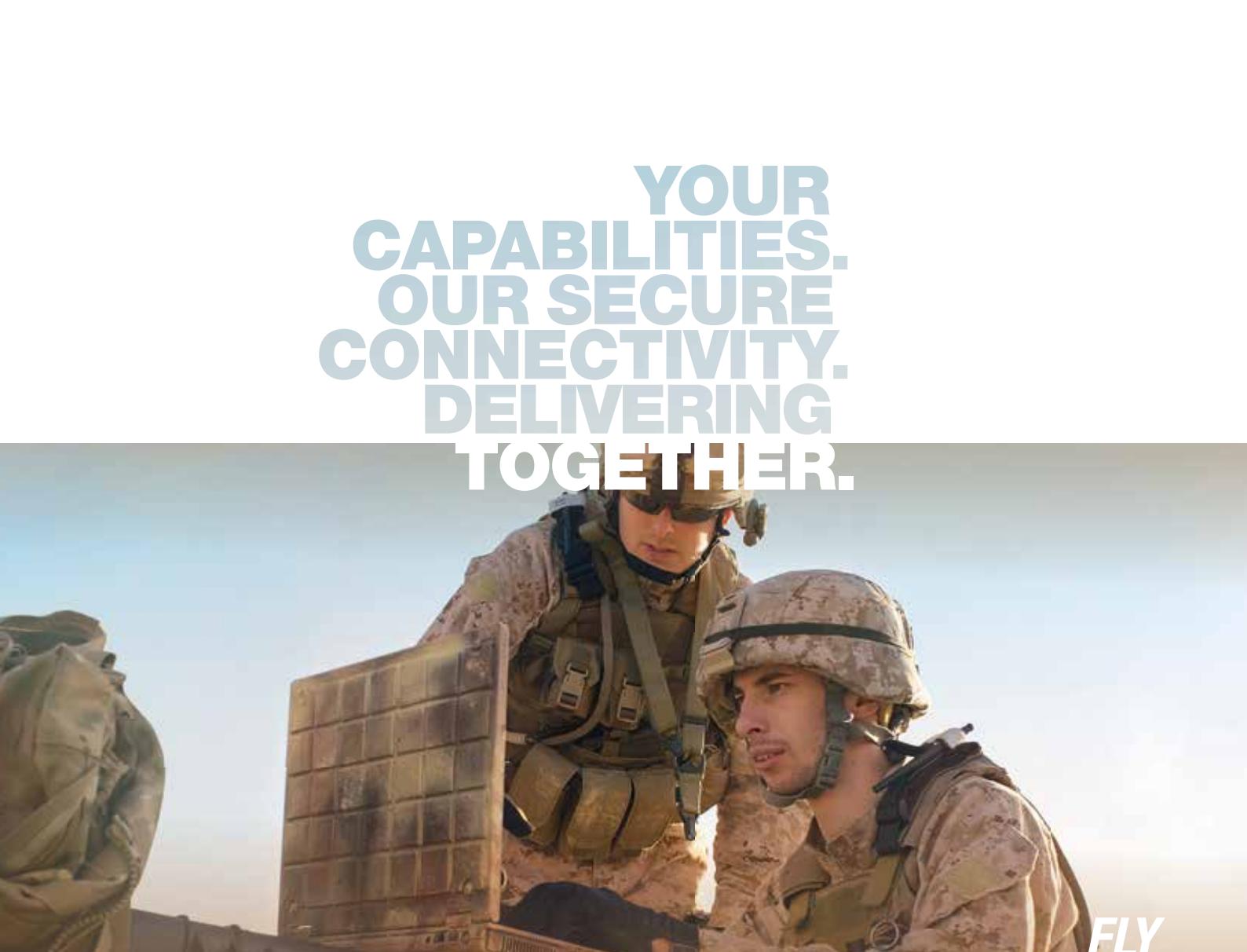
Sarah added: "I'm so grateful

I was given the opportunity at DE&S to train as a mental health first aider – I doubt I would have had the confidence to intervene in this situation without the practical techniques I learnt on the course.

"These are skills that are sorely needed in every organisation, and the support people receive in their times of distress can be life-changing. I would love to see a mental health first aider on every floorplate in every workplace."

Sarah's training was sponsored by DE&S and provided by Mental Health First Aid England.

Find out more at [www.mhfaengland.org](http://www.mhfaengland.org)

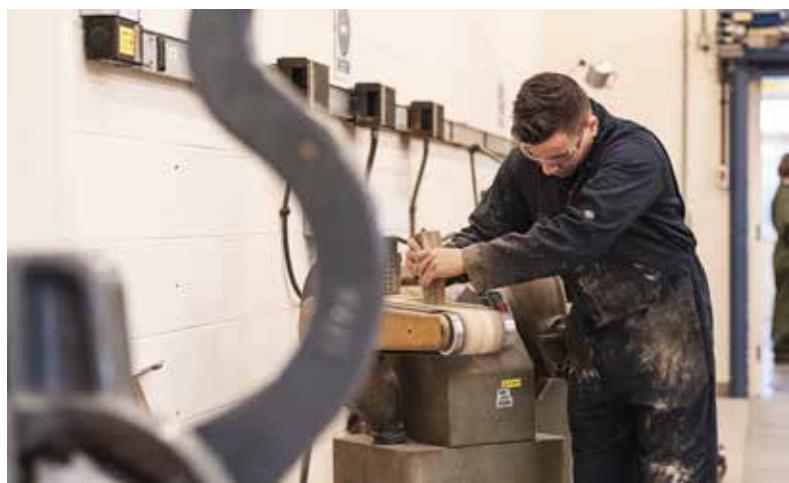


# YOUR CAPABILITIES. OUR SECURE CONNECTIVITY. DELIVERING TOGETHER.

WE MAKE IT **FLY**

Keeping your communications secure has never been more important. Our infrastructure expertise provides unparalleled protection and delivery. In fact we offer the most trusted, versatile and secure connectivity in the world. And that's not all. We'll help you manage a huge range of data sources to give you a clearer, more informed picture, so whatever the mission, you'll always have the upper hand.

Connectivity-secured. We make it fly.



Pictured: Apprentices from across DE&S competing at Tom Nevard (Pictures by Jack Eckersley)

# Apprentices shine at Tom Nevard

**"Year on year we see high-flying, talented young people in this competition, proving extremely promising for the future of our workforce"**

**M**ore than 80 engineering apprentices from across the UK gathered at the Defence Academy Shrivenham for the annual Tom Nevard Memorial Competition.

The competition began in 1952 as a memorial to Mr Tom Nevard, an Assistant Secretary in the Labour Branch of the Ministry of Supply. The original purpose of the event was to test the practical skills and craftsmanship of the best apprentices from across the many apprenticeship schemes in government and this remains the case today.

The prestigious week-long event attracts competitors from many sides of the defence community, including DE&S Abbey Wood (ABW) and Devonport, Defence Munitions Gosport and Beith, and Porton Down.

Air Marshal Julian Young, Chief of Materiel (Air), who attended in his role as MOD Defence Engineering Skills Champion, said: "The calibre of apprentices this year was exceptional. Year on year we see high-flying, talented young people in this competition, proving extremely promising for the future of our workforce."

Other senior staff who attended included Daniel Griffiths (Director Human Resources), Tim Rowntree (Director Engineering and Safety) and Jonathan Cook (Engineering Corporate Function Manager).

This year saw a significant change to the competition with a group of project management apprentices taking an active role in the team challenge. It is hoped that the competition will be opened to apprentices from all functions in future years.

The competition features three awards: one for individual first and second year apprentices respectively, and a final award with teams of first, second and third-year apprentices working together to meet their goal.

Building a cross-bow with an original design was one of the tasks for first-year apprentices. The winner was Charlie Kitchin (ABW degree apprentice), who impressed with the originality of his design and velocity of the ammunition.

Phase two second-year apprentices were tasked with building a rocket car that would ensure its passenger, represented by an egg, was kept safe and

protected from damage. Matthew Trower (ABW apprentice) triumphed.

The group project saw teams of five build their own version of the famous Second World War para bike constructed from scrap bicycles donated from a number of sources, including Oxford City Council – some of which are left chained up by departing students.

Project management apprentices faced a series of challenges, including ensuring their bike could withstand a drop test from a crane – emulating it being dropped from an A400M – to test the design and build of their protective packaging system.

The simulated low velocity airdrop was carried out from 12 metres by the Defence School of Electronic and Mechanical Engineering at RAF Lyneham, and organisers are very grateful to Sergeant Dean Lunn's selfless commitment to the task.

Team 'Cycle Paths', which included Christian Davock (ABW project management apprentice), James Element (Submarine Delivery Agency degree apprentice), Jonathan Lillie (Devonport apprentice), Ramin Mosavi (ABW apprentice) and Thomas Ellis (ABW degree apprentice), were clear winners.

This year again saw the Sir Henry Royce Award run alongside the competition, with first-year apprentices being asked to create an entrenching tool. They were awarded marks for quality of build, robustness and design features. Winner Thomas Perilli (Devonport apprentice) impressed judges with the high quality yet practical finish of his folding shovel.

Philip Rotherham, DE&S Senior Apprentice Development Manager and competition lead, said: "This competition has been going since 1952 and yet the enthusiasm we have seen this year is unmatched. This competition gives them a chance to do wacky things and get hand's on in the workshop – putting what they have learnt into practice and giving them a chance to get out of the office."

"It also reminds them engineering is fun. I like to think we are helping create some strong working relationships between the next generation of engineers and project managers."

Winners will receive a certificate and trophy at the Apprentice Award Ceremony held later this year.



# On support, team effort and his love of beekeeping

**Commodore Martyn Williams Royal Navy Head of Warship Support is responsible for the availability and combat effectiveness of all in-service warships, worldwide**

## **What does your role involve?**

We have a very clear mission in Warship Support: we support warships. Our team is responsible for the availability and combat effectiveness of all in-service Royal Navy (RN) warships, worldwide. My role is to lead the team and create the conditions for success.

## **What about your role is exciting, rewarding or interesting?**

Firstly, everything we do has a direct impact on sailors at sea on or preparing for operations, so the linkage between our delivery and what the Royal Navy achieves is immediate and clear, and often on the news, in the papers and on Twitter. Following our ships on Twitter can give a very powerful personal understanding of their business and challenges. Secondly, it's all about breadth: we support ships from small minehunters to the largest ship the Royal Navy has ever operated, in every ocean in the world, with response and planning timescales from immediate operational support to six-year refit cycles.

## **How important to you is teamwork?**

My experience working in the RN and DE&S is best summarised by one of the RN's previous straplines – the team works. A ship's company only succeeds through the coordinated and focused effort of a very diverse group of people with specific responsibilities, skills and experience. Warship Support (and the Ships domain more broadly) is the same – to succeed, we need to succeed together. I focus on making our aim clear, what we need to achieve and helping to drive learning across the broader team.

## **How are you helping embed change in your area?**

I strongly believe that the change we have driven over the last few years becomes a foundation for consistent, predictable and responsive delivery. We have been through two major change programmes recently. DE&S transformation has allowed us the standard ways of working that underpin a strong programme and disciplined change control with Navy Command. More fundamentally, the transition to the Common Support Model across the Complex Warship Support Enterprise means that we have restructured the entire industrial and MOD base to apply best practice with clear roles and responsibilities, in a consistent manner across all warships. We are now very strongly pursuing a continuous improvement mindset in everything we do.

## **Why did you choose to pursue a career in DE&S?**

As a Royal Navy engineer, my career path steps between sea and shore roles. My career field is capability and acquisition, which includes in-service support, and as a result I've served five times in DE&S or its predecessor organisations, with other roles as a customer of DE&S outputs. My first acquisition job was in the MOD (Procurement Executive) in Weymouth, on the Spearfish Torpedo project, before Abbey Wood had been built.

## **What do you most enjoy about your job?**

I feel proud of the team when we successfully deliver to the Royal Navy and support sailors at sea – that's why we come to work. I try hard to reinforce those successes across the whole team, because we need professional delivery

from everyone in every role and function for success. Focusing on the sustainable health of the team and everyone in it means helping people to learn and develop, and progress – seeing good people grow is very rewarding.

## **What do you enjoy doing in your spare time?**

I live on Dartmoor, north of Plymouth, and like many service personnel at Abbey Wood I commute weekly. Spare time is built around maximising my time with my family and making the most of the fantastic natural environment of the moor, rivers and coast, usually with our spaniel, Sennen. We are walking the coastal path around Cornwall in sections, and this year we made Land's End.

## **What might surprise people about you?**

After a swarm of bees chose to take up residence in our chimney a few years ago, I took the hint and became a beekeeper. This year has been a fantastic one for the bees, and I now have three hives in the garden, which adds up to around 120,000 bees. It's probably not a coincidence that the garden has also been very productive this year, thanks to the bees' pollination. This year's honey haul is looking like a bumper one and they could deliver around 200 jars.

# Local school pupils thrive during challenging work experience at DE&S

Pictured: Students from Cotham School pictured with DE&S CEO Sir Simon Bollom and Keith Woodbridge (Picture by Beth Squire)



The Typhoon team at MOD Abbey Wood welcomed a group of teenage pupils from Bristol to give them a taste of the exciting career opportunities at DE&S.

The 10 Cotham School students, aged 14 and 15, spent four days with the team and were challenged to develop options to answer an urgent operation requirement based around space technology.

During this time they had the opportunity to meet fast jet pilots and specialist engineers and took part in an environmental awareness quiz.

They also learned about important safety aspects of the business including a risk assessment model to help prioritise health and safety hazard control measures in the workplace, and the Health and Safety at Work Act.

Their week at Abbey Wood culminated in an outstanding presentation to Typhoon's senior executive team, which they delivered with confidence, answering a variety of challenging questions.

On the fifth and final day of their work experience week the group visited Rolls-Royce Bristol, home of Typhoon's EJ200 engine.

The visit was organised by Keith

**The pupils were fun, imaginative, creative, resourceful and respectful young people who did themselves and their school proud**

Keith Woodbridge, Fast Air Support Team Safety and Environmental Team Leader

Woodbridge, Fast Air Support Team Safety and Environmental Team Leader, and a member of the MOD Abbey Wood Volunteers Network.

He said: "I first met with the school before Christmas when I supported mock interviews and agreed with their teaching staff that it would be great to host a small number of students interested in Science, Technology, Engineering and Mathematics (STEM) subjects in the Typhoon team.

"Six months on 10 slightly nervous pupils arrived at Abbey Wood ready for a week with DE&S but went on to exceed our expectations. They delivered an innovative solution featuring a network for software programmers, with links to schools and universities to solve the problem we posed."

Keith added: "The Cotham School pupils were fun, imaginative, creative, resourceful and respectful young people who did themselves and their school proud."

Suzanne Paice, Cotham's career leader, said: "It has been a real pleasure to collaborate with the MOD, and I have heard so many positive comments from staff

about how the placement has seen greater levels of enthusiasm and confidence towards their studies and future career expectations.

"Here at Cotham School we regard work experience as a fundamental part of our student's development as individuals. We recognise the full value the placement has on the student's ability to contextualise their learning, visualise a clear pathway to success and gain employability skills into the bargain."

Digital Twin | Digital Thread | Advanced Manufacturing | Automation | Data Analytics | iFrigate | Virtual Reality | ROV | Augmented Reality | UAV | Connected Platform | Digital Asset Management | Robotics | Autonomous Systems | Mobile devices | iSupport360 | Protected Mobility | Virtual Battlespace | Armoured Vehicles | Augmented Reality | Virtual Reality | 3D Printing | Through Life Support | Protected Mobility™ | Advanced Manufacturing | Technical Training | Prototype Warfare | Advanced Analytics | REME | DSG | Phoenix II | Sponsored Reserves | Maintenance and Repair | Whole Life Cycle | Innovation through Collaboration | Military Flying Training | Air Station Support | MRO | Design and Completions | Integrated Aircraft Engineering | Fixed Wing | Rotary Wing | Fleet Planning | Asset Management | Quality and Airworthiness | Avionics and Component Maintenance | Modifications and Upgrades | Aviation Infrastructure | Through-Life Support | EASA Part 21J, Design Organisation Approval | EASA Part 21G, Production Organisation | Complex Nuclear Engineering | Technology Upgrades | Data Analytics | Robotics | Advanced Manufacturing | Digital Twin | Digital Thread | Advanced Manufacturing | Automation | Data Analytics | iFrigate | Virtual Reality | ROV | Augmented

# Intelligent support

We are proud to support critical defence programmes on land, in the air and at sea, placing partnerships and technology at the heart of everything we do.

Underpinned by innovation, our deep engineering expertise means we are trusted to deliver outstanding solutions for our defence customers.

**Visit us at DSEI stand S2-100 to find out more.**



Marine | Nuclear | Land | Aviation

© 21G Production Organisation | babcockinternational.com

## MIV delivery team sees Boxer put through its paces

**A**s part of the Mechanised Infantry Vehicle (MIV) Programme Assessment Phase being led by DE&S, two Boxer vehicles were put through a series of technical trials.

The trials, at the British Armoured Trials and Development Unit in Dorset, were to assess their supportability and recoverability using British Army's in-service repair and recovery assets.

As seen here, the vehicles were driven hard over the Bovington courses over three days to ensure the complete running gear and drive trains had been exposed to the natural operating environmental such as mud, deep water crossing, heavy dust and loose stones.

A series of repair and recovery exercises were also carried out on the vehicles.

Roddy Malone, head Land Concepts and Assessment at DE&S, said: "These assessments, which went very well, are an important part of the forthcoming preparations, essentially confirming some of the key in-service supportability logistics of Boxer in the Mechanised Infantry Vehicle role."





# Tideforce ceremony marks end of MARS tanker acquisition programme

Pictured: RFA Tideforce (Picture courtesy of Royal Navy)



**D**E&S Commercially Supported Shipping (CSS) staff joined Royal Fleet Auxiliary (RFA) and Royal Navy personnel for the Service of Dedication for RFA Tideforce, signalling the ship's formal entry into service and the end of the programme to acquire the Tide-class tanker fleet for the UK.

The ceremony, on July 30, was the point at which the 39,000-tonne vessel, acquired through the Military Afloat Reach and Sustainability (MARS) project, was handed over from CSS to the RFA, ready to supply Royal Navy ships on operations around the world with fuel and water.

Tideforce is the fourth and final Tide-class tanker to enter service and, although work will continue in the short term to formally wrap up the MARS acquisition process, the ceremony was an opportunity for CSS to look back on the wider programme's successes and challenges.

DE&S Chief of Materiel (Ships), Vice Admiral Chris Gardner, said: "This event marks one of the final milestones of this major

**This event affords a moment to reflect on the vital importance of the work DE&S does to provide our armed forces with the equipment and support they need**

Vice Admiral Chris Gardner,  
DE&S Chief of Materiel  
(Ships)

shipbuilding programme and affords a moment to reflect on the vital importance of the work DE&S does to provide our armed forces with the equipment and support they need.

"The MARS tanker acquisition project pioneered a number of important innovations, which are informing current and future programmes and demanded a lot from everyone involved. The team has delivered exceptional results in overcoming challenges to ensure delivery of capability for the Royal Navy to use on operations."

Head of CSS at DE&S, David Farmer, added: "Our procurement experts performed brilliantly to bring these essential tankers to the UK and ensure they were materially ready for service. Everyone in CSS can rightly be proud of what we achieved as a team."

"As the formal acquisition programme draws to a close, DE&S will remain highly focused on the Tide-class as we continue to support the fleet through the £1 billion Future In Service Support programme."

The Service of Dedication at Portland Port in Dorset was attended by personnel representing the acquisition, customisation and in-support teams in CSS.

Members of the acquisition team are now moving on to the Fleet Solid Support (FSS) programme to acquire a new fleet of RFA ships capable of carrying stores and ammunition in support of global tasking.

CSS Acquisition deputy head Stephen Rose said: "The FSS project presents an entirely new set of programmatic and technical challenges, but the skills and knowledge accumulated by the team through the MARS project are already proving invaluable.

"This expertise will ensure the RFA receives the world-beating equipment it deserves."



# Proud history, bright future.

We're engineering solutions for the needs of today and tomorrow. Helping with your most complex projects and programmes. No matter the mission, no matter the environment, we deliver.

follow the story at [kbr.com](http://kbr.com)



Pictured: Families Days again proved a huge success (Pictures by Mark Hawke)



# Hard work pays off as Families Days thrill again

**It's been a genuine pleasure to see the enjoyment of staff and their families and to showcase both our site and the equipment we provide for the armed forces**

Sally Wilkins, Head of Establishment

This summer Abbey Wood Families Day saw over 4,000 attendees come through its gates, giving the opportunity for Operating Centres to showcase what they do in an environment of innovation over two hugely successful Families Days.

Families and friends of employees were invited to visit Abbey Wood on August 2 and 16 for the annual Families Days events, with tickets snapped up within hours of them going live.

Since 2013, DE&S has welcomed over 23,000 visitors on site to enjoy informative and exciting displays that are facilitated and overseen by the DE&S Infrastructure team.

Sally Wilkins, Head of Establishment, said: "As ever, I'm delighted with the success of Families Days. The tremendous efforts from the infrastructure team, who start planning eight months prior to the event, ensured that people could arrive, enjoy and learn all about the work we do at DE&S. It's easy to forget just how much work goes into Families Day and without all the hard work that goes on behind the scenes, none of it would have been possible."

This year saw 81 exhibitors across the Neighbourhoods and for the first time there were exhibitors in the SI Suites due to the demand.

Rosette Venell, Business Continuity manager and Families Day organiser, said: "Families Days have become an institution over the last few years and we start preparing for the events in January. We work very closely with Amey Defence Services, who are integral to the successful outcome of Families Days."

Activities that were on offer this summer included making aeroplane models, a javelin simulator, nature on site, design your own Royal Fleet Auxiliary ship, high tech velocity training simulator, hoop a basketball, aeroplane landing challenge, bottle rockets and interactive science, orienteering courses, radio exercise, beat the goalie inflatable and many other exciting activities.

Wherever you looked there was something impressive for you to see, take part in or eat – a grand total of 4,750 burgers, hot dogs and veggie burgers were eaten this year!

Business manager Linda Stringer said: "We have to ensure that the site can accommodate all the vehicles and equipment Operating Centres want to display. Some of the most popular exhibits are the MDP dog display and the MDP police vehicles, especially when the children get to press the very loud sirens."

David Swan, Directorate of Engineering and Safety in Land, and his team were displaying the nano Black Hornet aircraft, the size of a large insect which proved very popular.

David said: "The Tech Office was, as always, extremely pleased to support Families Day, interacting with families to show off the exciting projects we are delivering. It was great to be able to excite younger family members with the idea of perhaps becoming DE&S engineers and project managers in the future."

Simon Edwards, Ship Acquisition Business Manager said: "I always enjoy Families Day, it's great to share with others what we do and inspire the younger visitors. This year we demonstrated some of the virtual reality technology that is transforming the way warships are designed. It was a great opportunity to show people some of the cutting-edge technology being employed on our new Type 26 frigate programme. Now I've got children of my own, I've loved bringing them along. There's so much for them to do and they're very excited to see where their dad works. The climbing wall, birds of prey, and the photo booth are always a hit."

Head of Establishment Sally Wilkins added: "Thank you to all the teams who contributed to this event to make it such a great success again. It's been a genuine pleasure to see the enjoyment of staff and their families and to showcase both our site and the equipment we provide for the armed forces."



## Ian wins gold medal in UK Invictus Trials

**M**aritime Combat Support In-Service Delivery manager Ian Fereday took part in the UK Invictus trials in Sheffield this summer along with 350 other wounded, injured and sick veterans, and serving personnel.

Ian, who served in the RAF, first got a taste for sport in 2018 – a year after he underwent a kidney transplant which resulted in him being medically discharged from the armed forces.

On that occasion he travelled to the British Transplant Games in Birmingham, where he competed in archery, ten-pin-bowling, darts, javelin and a 5km run.

“I really enjoyed the sense of belonging and it was my first real taste of high-level competitive sport”, Ian said.

Whilst visiting Tedworth House in Wiltshire as part of a recovery programme, his friends and family encouraged him to apply for the UK Invictus trials.

The Invictus Games are fundamentally about recovery, using the power of sport to support rehabilitation and generate a wider understanding and respect for wounded, injured and sick Service personnel and veterans.

“I had been inspired by my time at the British Transport Games so I decided to fill in the 11 page application for the Invictus games”, said Ian.

After hundreds of applications had been reviewed, Ian was delighted to find out he had been successful. And wanting to give a couple of new sports a go, Ian opted to take part in wheelchair basketball and discus.

Ian managed to achieve a total distance of 13.34 metres in the discus – a real triumph, especially as this was the first time he had participated in the event since he was at school. Following that success, Ian went on to be part of the winning mixed basketball team, picking up a gold medal alongside his seven team-mates.

Ian said: “That morning was

the first time we'd met and played as a team. We didn't lose a game all day.

“We were learning the rules as we went along but the crowd cheered us right through to the nail-biting finish where we managed to steal a win with a final penalty basket.”

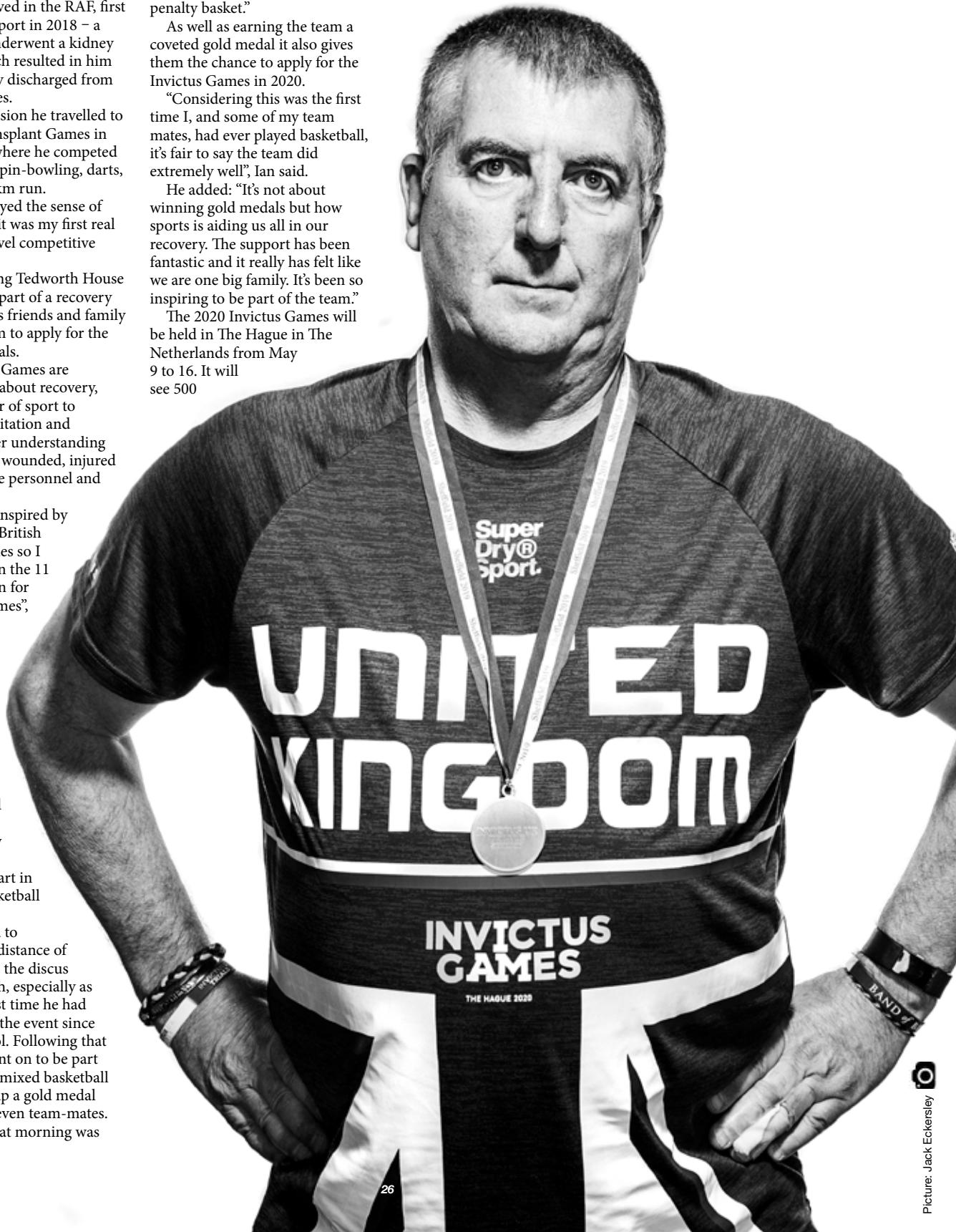
As well as earning the team a coveted gold medal it also gives them the chance to apply for the Invictus Games in 2020.

“Considering this was the first time I, and some of my team mates, had ever played basketball, it's fair to say the team did extremely well”, Ian said.

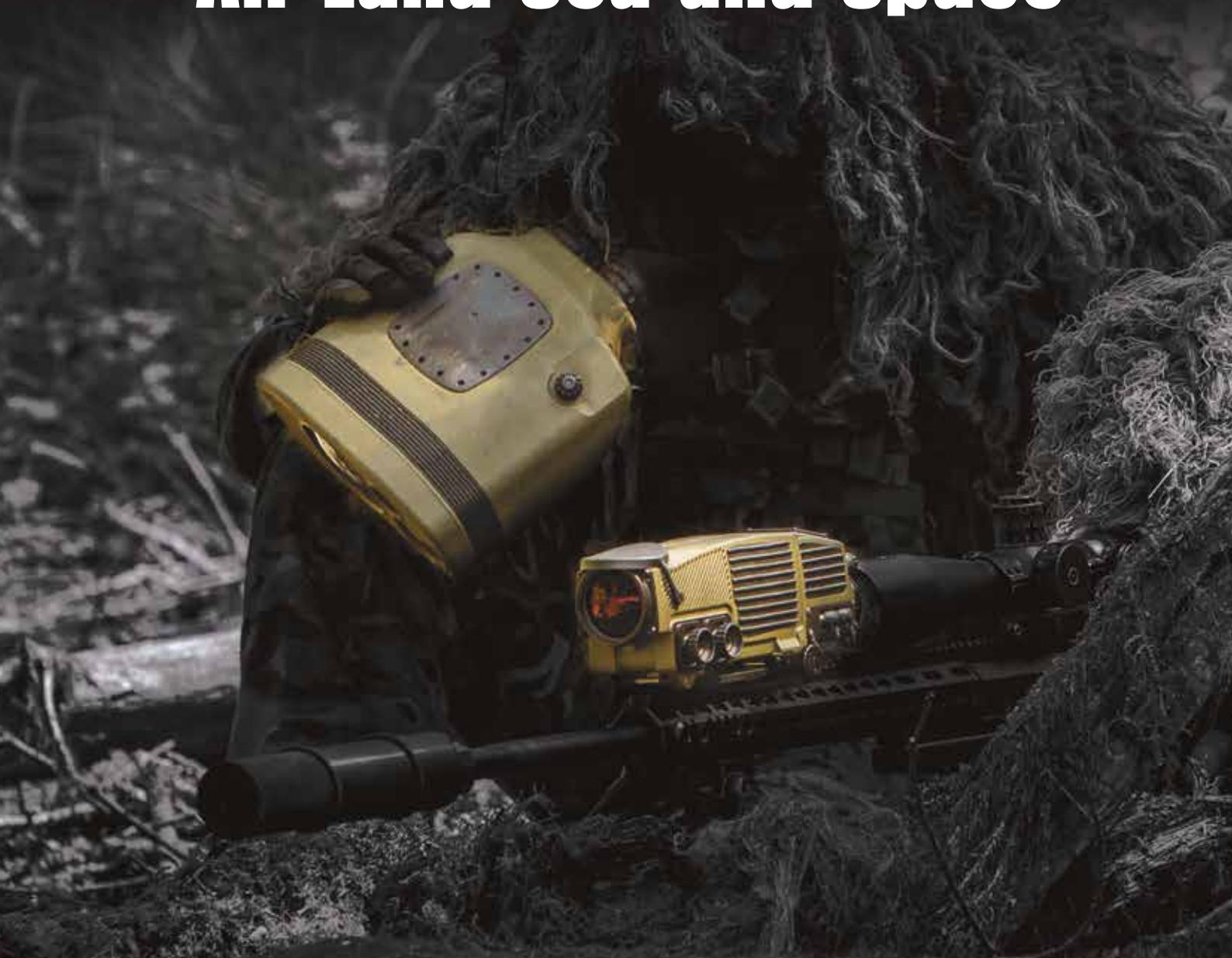
He added: “It's not about winning gold medals but how sports is aiding us all in our recovery. The support has been fantastic and it really has felt like we are one big family. It's been so inspiring to be part of the team.”

The 2020 Invictus Games will be held in The Hague in The Netherlands from May 9 to 16. It will see 500

competitors from 19 nations take part. Applications will be reviewed by Help For Heroes, the Royal British Legion and the MOD and Ian is sitting tight to find out if he's secured a place in the archery and wheelchair basketball team.



# Engage. Enable. Excel. Air Land Sea and Space



Visit us at DSEI on stand S8-100



# DE&S apprentices transform primary school playground

Pictured: The apprentices who took part in the project (Picture submitted)



**D**E&S Advanced Engineering Management apprentices from HMNB Devonport have used their engineering skills, creativity and enthusiasm to transform a local primary school's concrete playground into a green oasis.

Keyham Barton Catholic Primary school was chosen as a community project for Phase 1 apprentices who worked to develop the playground by turning it into an inviting, bright learning space.

The school wanted to bring colour and nature into the area so high on head teacher Shelly England's 'wish list' was Astro turf and a living wall – a self-sufficient vertical garden attached to the exterior or interior of a building.

The apprentices were split into two groups, each with a project manager and deputy. Each team came up with ideas and presented them to the school's head for consideration.

With no specific budget, the teams produced three budget options: low, medium and no expense spared. Once the head teacher had decided which options she liked she applied for and

successfully obtained a grant from the North Yard Trust.

Julie Catterall, apprentice scheme manager (Phase 1) at DE&S, said: "The apprentices were responsible for all aspects of the project including construction, ordering and updating the customer."

"To their credit, they completed the project within budget, within the two-week timeframe and to a very high standard."

The completed playground area now has Astro-turf surface, a living wall consisting of fabric holders for each child to grow their own plants, a tractor tyres seating area, a sand pit and a colourful glockenspiel type instrument made from waste pipes.

The school greatly appreciated the apprentices' efforts.

Head teacher Ms England said: "What the apprentices have provided for us at Keyham Barton is a beautiful space to support our community's emotional well-being.

"Thanks to the expertise and creativity of these engineers, and a generous grant from the North Yard Trust, our school now has a place where children can learn and

play, as well as 'be'."

The new play area was officially opened by Captain Andy Price, the new Captain of HMNB Devonport, who said: "This imaginative, wonderful, colourful end-product is another great example of the local community working together to make a difference. Everyone should be justly proud of their input."

Phase 1 apprentice Briony Hall, who was one of the project managers, said: "It was great to put the engineering skills learnt at college into practice in such a beneficial way for others."

**What the apprentices have provided for us at Keyham Barton is a beautiful space to support our community's emotional well-being**

Shelly England,  
Head teacher





10–13 September 2019

The World Leading  
Defence & Security Event  
ExCeL, London [www.DSEI.co.uk](http://www.DSEI.co.uk)



# REGISTER TODAY FOR THE WORLD LEADING DEFENCE & SECURITY EVENT

Defence & Security Equipment International is the world leading event that connects governments, national armed forces, industry thought leaders and the global defence & security supply chain on an unrivalled scale. With a range of valuable opportunities for networking, a platform for business, access to relevant content & live-action demonstrations, the DSEI community can innovate, share knowledge, discover & experience the latest capabilities across the Aerospace, Land, Naval, Security & Joint domains.



AEROSPACE  
ZONE



LAND  
ZONE



NAVAL  
ZONE



SECURITY  
ZONE



JOINT  
ZONE

REGISTER NOW [WWW.DSEI.CO.UK/REGISTER](http://WWW.DSEI.CO.UK/REGISTER)

Supported by



Department for  
International Trade

Defence & Security  
Organisation

Platinum Partner

GENERAL DYNAMICS

BAE SYSTEMS

Follow us on



DSEI

Follow us on



@DSEI\_event

Organised by



# 60 second spotlight

**"I once escorted the TV gardener Charlie Dimmock around DM Gosport dressed as Pudsey Bear – all in the aid of charity"**

## **Mark Champion**

**Job:**

Site Manager at DM Gosport

**Your route into DE&S?**

I have worked in the Civil Service for 40 years, joining the Royal Naval Armament Depot Gosport in 1979 as a junior stores trainee. I've also held office as a non-mechanical examiner, the original depot photographer (in the days when black and white photos were processed in a darkroom), and the IT network manager for a network of 10 Commodore computers with 5.25 floppy drives. I've been a logistic planning manager, the customer service manager, the general munitions business manager, the property manager and finally the site manager.

**Your claim to fame?**

In the early 2000s, I helped to manage the annual Gosport Waterfront Music Festival. My role was to manage the "green room" and this resulted in greeting the bands, managing their food and drink requests and escorting the likes of Slade, Nazareth, Showaddywaddy, The Drifters and Boney M onto the main stage.

**Your advice to anyone?**

Remain active and positive, always be willing to accept new challenges, build positive relationships and never think 'it's not my job.' I think it's important to be grateful for what you have and above all enjoy life to the full – many don't get that opportunity.

**What do you do when you're away from work?**

I play golf and have managed the Depot Golf Society for the past

25 years. I also play badminton, racketball and tennis. Outside of sport I am involved with the local election process as a presiding officer, a verification supervisor and a count supervisor.

**What are you most proud of?**

My proudest moment was being at the birth of my son Luke on New Year's Eve – it was an incredible experience and the best fancy-dress party ever. I was in an operating theatre wearing scrubs, a bandana and green wellies and looking just like a surgeon. I am also very proud of my fund-raising efforts to support BBC Children in Need, Macmillan, the Harbour Cancer Trust and the Royal British Legion. I have helped raise in excess of £30,000 to date.

**If you were sent to a desert island, what three things would you take with you?**

A mobile phone so I could order food from Ocado! No, seriously, I think I'd have to take sunscreen, insect repellent and a big knife for hunting and/or protection.

**What irritates you the most?**

People who drive in the middle lane on a motorway, oblivious that the inside lane is totally empty! Also, tradespeople that drive large vans and park them outside homes on kerbs.

**What is your favourite place in the world?**

I haven't necessarily got a favourite place in the world; however, I have enjoyed visiting Canada, the former Yugoslavia, the Canary Islands and the Costa del Sol.

**What would surprise people about you?**

I gained a bronze, silver, gold and honours in personal survival and then a bronze medallion in life saving when I was 14. I also



once escorted the TV gardener Charlie-Dimmock around DM Gosport dressed as Pudsey Bear (pictured right) - all in the aid of charity.



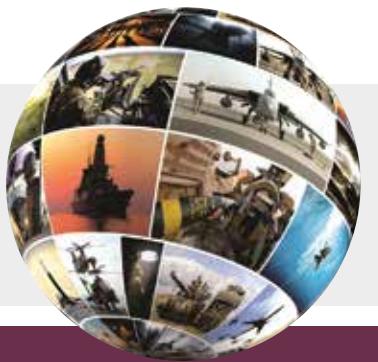
**Do you or someone you know deserve their 60 seconds in the spotlight?**

Email  
[tom.morris14@mod.gov.uk](mailto:tom.morris14@mod.gov.uk)

The World's  
Leading Military  
Safety Event

# Defence Safety Conference 2019

7th - 8th October 2019,  
Copthorne Tara Hotel, Kensington, London



SMI  
LINKING BUSINESS with INFORMATION

Gold Sponsors:

**babcock™**  
**WEST KEEBLE**

Sponsor and Exhibitor:

**BMT**  
**MBDA**  
**tlmNexus**

Supported by:

**Defence Safety Authority**

## THE EXPERT SPEAKER LINE-UP INCLUDES:

- Sir Simon Bollom, Chief Executive, DE&S UK MoD
- Air Marshal Sue Gray, Director General, DSA, UK MoD
- Lieutenant General Christopher Tickell CBE, Deputy Chief of General Staff, British Army
- Air Vice Marshal Steve Shell, Director Military Aviation Authority, UK MoD
- Major General John T Rauch, Director US Air Force Safety Centre, US Air Force
- Major General Kees Matthijssen, Deputy Commander, Royal Netherlands Army
- Major General Norbert Huber, Director Armament and Procurement, Austrian MoD
- Rear Admiral Martin Connell, Assistant Chief of Naval Staff (Aviation and Carrier Strike) and Rear Admiral Fleet Air Arm, Royal Navy

- Rear Admiral Will Warrender, Flag Officer Sea Training, Royal Navy
- Rear Admiral Mark Leavitt, Commander, Naval Safety Center, US Navy
- Commodore Stuart Henderson, Navy Safety Centre Director, Royal Navy
- Colonel Anders Persson, Commander Air Staff, Swedish Air Force
- Captain Tony Rayner, Director Maritime Safety Bureau, Royal Australian Navy
- Colonel Marty Bedell, Director of Safety and Occupational Health, USMC
- Lieutenant Colonel Jörgen Forsberg, Ground Safety Inspector, Swedish Armed Forces
- Tim Rowntree, Engineering and Safety Director, DE&S, UK MoD

[www.defencesafety.com/desider](http://www.defencesafety.com/desider)

To sponsor or exhibit, contact Sadia Malick, Director on: +44 (0) 207 827 6748 or email [smalick@smi-online.co.uk](mailto:smalick@smi-online.co.uk)

BOOK BY 30TH SEPTEMBER TO SAVE £100



SMI Group Proudly Presents its 21st Annual...

SMI  
LINKING BUSINESS with INFORMATION

# Global MilSatCom

CONFERENCE & EXHIBITION 2019

## Europe's Leading Military Communications Event for Satellite Professionals

Pre-Conference Focus Day: Monday 4th November 2019 | St James Court | London, UK

Conference: Tuesday 5th November - Thursday 7th November 2019 | Queen Elizabeth II Conference Centre | London, UK

### KEYNOTE SPEAKERS:

- Captain David Moody, SATCOM & Strategic Networks, UK MoD
- Dr Graham Turnock, Chief Executive, UK Space Agency
- Dr Michael O'Callaghan, Space Programme Manager, Dstl
- Mr Barry Austin, Skynet 6 Project Manager and Deputy Head of Networks, ISS, UK MoD
- Wing Commander David Black, SKYNET 6 EC Lead, ISS, UK MoD
- Major General Sergio Tratz, Deputy Chief of Army Staff, G2, Brazilian Army
- Major General Jose Vital, VP, Brazilian Space Systems Commission, Brazilian MoD

- Colonel Andrew Burks, Chief of C4i Operations, J6, EUCOM, US DoD
- Colonel Cameron Stoltz, Director of Space Requirements, Canadian Armed Forces
- Colonel Laurent Jannin, Head of SATCOM, DGA
- Ms Deanna Ryals, Chief, International Partnerships Office, SMC, US Air Force
- Mr Hirohisa Mori, Director of National Space Policy Secretariat, Japanese Self Defence Forces
- Ms Clare Grason, Chief, Commercial Satellite Communications Office (CSCO), AFSPAC, US Air Force

### LEAD SPONSOR

**SES Networks**

### GOLD SPONSOR

**AIRBUS**

### SILVER SPONSOR

**eutelsat**

### SPONSORS

AVANTI INTELSAT GOVSAT KRIOTOS inmarsat  
BAYTECH SES NORTHROP GRUMMAN OneWeb  
DATA PATH DIRECT THALES INSTER MARLIN BROADCAST XTAR  
SCISYS HYPERION SPECTRA TELECASTER

### EXHIBITORS

INSTEK SPECTRA TELECASTER XTAR

To keep updated with programme developments or to reserve your place, please visit:

[www.globalmilsatcom.com/desider](http://www.globalmilsatcom.com/desider)

Global MilSatCom Community

#GlobalMilSatCom

@SMiGroupDefence

**CPD**  
CERTIFIED  
The CPD Certification Service

# An honoured guest, a worthy walk and inspiring youth by the sea



**The Bishop of Bristol visited MOD Abbey Wood to meet staff and learn more about the work we do to support the armed forces.**

As well as meeting project teams, the Right Reverend Vivienne Faull also took the opportunity to speak with DE&S Christian Network.

Lieutenant General Paul Jaques, Chief of Materiel (Land), who hosted the visit, said: "We are a major employer in Bristol and it is so important for us to look out to our wider community, as well as to the armed forces we support. I was proud to show her some of

the great project teams we have in DE&S, delivering equipment for our soldiers, sailors and airmen, and the team in Defence Support Chain Operations and Movements supporting operations around the world."

Bishop Vivienne added: "It was both fascinating and inspiring to visit Abbey Wood and meet a small number of the many thousands of civil servants and military staff who work there to support HM Forces. The pride, motivation and team-working were obvious. Thank you to all those who made the visit so memorable."



**The Business Support Group within the DE&S Weapons Operating Centre raised £1,900 money for Macmillan cancer support by walking the 10 miles from Bradford-on-Avon to Bath.**

The walk was particularly poignant as each member of the team know someone who has been affected by cancer.

Hilary Perry said: "When the plans for the walk were announced I knew I would have to start a training regime to walk such a long distance, as I am the first to admit I drive my car whenever I can.

"I walked to and from work which is four miles a day whenever I could and started to get value for money from my gym membership by taking to the treadmill most weekends. I was able to finish the walk with few after effects and felt a great sense of achievement".

Julie Keyse, the Business Support Group team leader, added: "It was a really fun day, has done wonders for team morale as well as raising money for a really worthy cause."

The team would like to thank everybody who sponsored them.

**DE&S Phase 1 engineering management apprentices from HMNB Devonport attended an event aimed at inspiring young people about Science, Technology, Engineering and Mathematics (STEM).**

The apprentices went to the stunning Art Deco Lido on Plymouth Hoe, which was turned into an open-air laboratory for the two-day Big Splash STEM event part of the 'STEM Spectacular'.

DE&S apprentices engaged students with activities relating to marine engineering, including buoyancy and propulsion in submarines and how a light in a lighthouse works.

Students were given a drinking straw and Blu-tac – to represent a submarine/ballast

– and were challenged to make the device float horizontally or vertically between two lines.

For the lighthouse challenge, students were tasked with creating an electrical circuit. The final activity was completing the Buzz Wire challenge, designed in the shape of a submarine and constructed at college by apprentices.

Plymouth City Council's STEM consultant Tina Brinkworth said: "The MOD/DE&S stands and activities were amazing – and the students were so engaged. Your STEM ambassadors are such inspirational role models – they all did a fantastic job."



# Focusing on safety and the environment

As part of the continuing embracement of a robust safety culture, safety awareness and personal development, engineers within the DE&S Unmanned Air System team organised a day visit to the Big Pit National Coal Museum in Wales.

Throughout the day the engineers enjoyed two tours, along with team briefings and presentations. One tour was underground in a retired working coal mine which is now an interactive museum.

The tours provided an interactive, thought-provoking experience which enabled the team to understand, consider and evaluate hazards, control measures and mitigations implemented within the mining industry.

Understanding system safety, appreciation of risk assessment and learning from experience in the coal mining industry, the ability to draw parallels with aviation safety was evident.

The day was very thought provoking and an enjoyable experience to aid the continued development of safety within the team.

The Big Pit National Coal Museum is an industrial heritage museum in Blaenavon, Torfaen, South Wales. A working coal mine from 1880 to 1980, it was opened to the public in 1983.

The site is dedicated to operational preservation of the Welsh heritage of coal mining, which took place during the Industrial revolution.



## Staff from DE&S Yeovil headed to Burton Bradstock in Dorset en masse to take part in a hugely successful Beach Cleaning Day.

The large-scale team building event was open to all DE&S personnel and teams located on site at Yeovil and was supported by Head of Establishment Brigadier Darren Crook.

Organised by Sarah Colley and Louise Stevens from the Wildcat Business Management team, the event saw staff embark on a sweep of the beach, collecting discarded and washed up material whilst also completing data collation.

The event at Hive Beach was also organised to coincide with Volunteering Week and the 75th Anniversary of the D Day landings on beaches in Normandy.

As such, the day kicked off with a briefing from Brigadier Crook on the build up to D-Day and the key events

that occurred 75 years ago off the coast of Dorset, before a minute's silence was observed.

Louise said: "Volunteering is great for individual development, broadening

# MOTTO

the MOD Lottery May winners

£10,000	Stephen Roberts, Bicester
£2,500	Joanne Davies, Blackpool
£1,000	Christopher Lambert, Digby
£500	Sally White-Hall, Camberley
£250	Chloe Graham, London
£100	Moira Galletly, Salisbury
	Louise Roostan, London
	Maria Randall, Bristol
	Martha Williams, Fareham
	Maria Parkinson, Plymouth
	Joanna O'Daly, Devonport
	Paul Brake, Corsham
	Deborah Fry, Feltham
	Alistair Rankin, Scotstoun
	Graeme Slaymaker, Bristol
	Derek Day, Corsham
	Simon Graham, Liverpool
	Kelly Carruthers, Lichfield
	Helen Chambers, York
	Kathryn Thomson, Glenrothes
	David Dowgill, Shawbury
	Joanne McGee, Blackpool
	Stanley Lumley, Menwith Hill
	Louise Bradshaw, Wyton
	Michele Steele, Telford

experience and practicing skills, but it also provides a highly effective way to build relationships within teams in a totally different environment from the office."



# Case Study

Sarah Anderson, project professional graduate within DE&S, gives her insight into some of the benefits of working for the organisation

**Name:**  
Sarah Anderson

**Job title:**  
Project Professional Graduate – project manager in Soldier, Training and Special Programmes (Dismounted Close Combat-Survivability)

**How long have you worked for DE&S?**  
Two years.

**Why did you choose to pursue a career in DE&S?**  
I felt a career in DE&S would offer me a varied job with new challenges, as well as qualifications and training.

**What does your role entail?**  
A project manager (PM) is known as the ‘conductor of the orchestra’. This means that a PM must bring together all the functions within the project team, to ensure the objectives of the project are met. This requires complex stakeholder engagement, and communication skills are key.

**What are the opportunities to develop and progress within your function?**  
I came in on a graduate scheme. This has allowed me to work in three different placements, in project controls and management. This has given me a broad grounding in the two functions, essential for career development. During the scheme, I have completed several training courses, including achieving my Association for Project Managers (APM) Project Management Qualification. Looking forward, I wish

to take on more project management qualifications – I am enrolled to sit the APM (G) Project Planning and Control course soon.

**What do you most enjoy about your job?**  
I love getting to speak to the people who use the kit we procure. I recently attended project trials and this was a great opportunity to get the opinions of troops. The work of the survivability team is closely linked to the end user, and this ability to physically see the benefits of our work really inspires me.

**What's your ambition?**  
I aspire to achieve chartership as a project manager.

**What's your greatest achievement in your role to date?**  
I presented at the Blast Injury Conference at Imperial College London, in front of around 250 experts in the field. I presented on the work we do in Survivability, highlighting the link between the research that many of the scientists in the room were responsible for, and how this forms requirements for our projects.

**Why would you recommend DE&S to others as a great place to work?**  
At DE&S I get to work with people with a wide set of skills and backgrounds. This is really helpful in boosting your own development, as you can learn so much just from the people who sit around you. The freedom to attend various conferences and training is something that really appeals to me. There is a real push to continually learn in your role, no matter your level, and I think this is incredibly important.

**What are the social benefits of working for DE&S?**  
I moved to Bristol from Aberdeen, not knowing much about Bristol or knowing anyone here. Coming in as part of a graduate scheme was incredibly beneficial, as I immediately had a network of 50 people in the same boat as me. Two years on and that network is definitely still ongoing. This can be incredibly useful for support at work, but I have also made some really close friends that I regularly see outside of work.



## SIX GREAT REASONS TO WORK FOR DE&S



Bonuses &  
Recognition



Pension



Flexible  
Working



Professional  
Development



Holiday



Facilities

For more info and job opportunities visit:  
[www.des.mod.uk](http://www.des.mod.uk)



Civil Service



# Transforming the mission

A secure, High Assurance, cloud platform you can trust.  
Enabling innovative, new ways to protect our nation.

**Secure. Assured. Evergreen.**



Visit UKCloudX at DSEI, September 10-13th. Stand N-280.

[www.ukcloudx.com/dsei](http://www.ukcloudx.com/dsei)