

DRONES 2017: ACCIDENT AND INVESTIGATION

**SAVE
UP TO 10%
OFFER ENDS
20 JANUARY 2017**

Institution of
**MECHANICAL
ENGINEERS**

KEY SPEAKERS INCLUDE:



Lt Cdr Scott Hislop,
Defence AIB Senior Engineer (Maritime)
Defence Accident Investigation Branch



Richard Ross,
Principal Inspector
Air Accident Investigation Branch



Mark Callaghan,
Operational Lead for Drones
National Police Chief's Council



Thomas Braagaard Sylvest,
Head of UAV Education and Operation
Copenhagen Fire Department



Ian Capewell,
Inspector
Rail Accident Investigation Branch

21 February 2017
Cranfield University, UK

More details available at
www.imeche.org/drones

Seminar, Knowledge Transfer



EVENT PARTNERS:



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OFFER ENDS 20 JANUARY 2017**

**TERMS AND
CONDITIONS
APPLY**

DRONES 2017: ACCIDENT AND INVESTIGATION

21 February 2017

Cranfield University, UK

WITH THE PROLIFERATION OF DRONE USE ACROSS INDUSTRY, THERE HAS CONSEQUENTLY BEEN DEVELOPMENT OF MORE SOPHISTICATED UNMANNED AERIAL VEHICLES (UAVS) AND REMOTELY PILOTED AIRCRAFT SYSTEMS (RPAS). ACCIDENT INVESTIGATION TEAMS AND EMERGENCY RESPONSE SERVICES ARE STARTING TO SEE THE BENEFITS OF USING THIS TECHNOLOGY TO ACCOMPLISH THEIR MISSIONS, THE MAIN ADVANTAGE BEING REDUCING RISK.

Drones 2017: Accident and Investigation will enable attendees to learn about the implementation of drone technology in emergency response services across the UK and how it can benefit post-incident investigation and data collection. With the UK thought-leaders in this field, hear from leading investigation branches about how they harness drone technology for safer investigations and hear from emergency services about how using the technology means more efficient emergency response.

Insight will also be provided into the national picture of drone implementation for the UK Police service and what this could mean for your organisation. Furthermore, learn about the latest drone technology including cost-effective design which could revolutionise your missions. Not only will the event feature practical case studies of drone use but also there will be the opportunity to experience the technology first hand with our live drones show.

2017 ADVISORY BOARD:

Pete McCarthy, Lecturer
**Human Factors and
Accident Investigation,
Cranfield University**

John Rickard, Safety and
Airworthiness Head
**Defence Equipment
and Support,
Ministry of Defence**

Air Commodore Paul Lloyd,
Head Fast Air Support Team
**Defence Equipment and
Support, Ministry
Of Defence**

WHY ATTEND:

- Drones 2017: Accident and Investigation is the **only drones event focused on the use of the technology for accident and investigation purposes**
- Learn about the **implementation of drone technology in the emergency response services across the UK** and how it could significantly reduce risk in your emergency response
- **Discover the latest drone technology** including the 3D mapping software and sense and avoid technology
- Take the opportunity to experience drone technology first hand with our **live drone show**
- Find out all your answers through our **"Quiz the Experts" panel** made up of key players in drone technology and use
- **Network and engage** with Accident and Investigation branches, fire services, police services and drone technology experts

KEY PROGRAMME HIGHLIGHTS:

- **The Defence Accident Investigation Branch and Air Accident Investigation Branch** share details about their use of drone technology
- Hear about the national picture of drone development and use across the UK Police force from **The Association of Chief Police Officers**
- **The Ministry of Defence** deliver an exclusive case study on the latest unmanned drone project with **Airbus**
- Discover insightful results from the **European Emergency Number Association** DJI Drone trial from the Copenhagen Fire Department
- Hear from leaders in drone use, **Lancashire Fire and Rescue Team**

BOOK YOUR PLACE TODAY
WWW.IMECHE.ORG/DRONES

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PROGRAMME

08:30	REGISTRATION AND REFRESHMENTS
09:00	CHAIR'S OPENING REMARKS Pete McCarthy, Lecturer, Human Factors and Accident Investigation, Cranfield University
	THE USE OF DRONES IN ACCIDENT INVESTIGATION
9.10	KEYNOTE: USING DRONES WITHIN ACCIDENT INVESTIGATION Lt Cdr Scott Hislop, Defence AIB Senior Engineer (Maritime), Defence Accident Investigation Branch Richard Ross, Principal Inspector, Air Accident Investigation Branch
9.35	DRONES – CHALLENGES OF OWNERSHIP FROM A MINISTRY OF DEFENCE PERSPECTIVE John Rickard, Safety and Airworthiness Head, Defence Equipment and Support, Ministry of Defence
10:00	INVESTIGATING RAIL ACCIDENTS WITH DRONE TECHNOLOGY Ian Capewell, Inspector, Rail Accident Investigation Branch
10:25	QUESTION AND ANSWER SESSION
10:35	NETWORKING REFRESHMENT BREAK
11.05	UNDERSTAND THE LEGAL REQUIREMENTS FOR DRONE USE Speaker to be confirmed
11:30	THE USE OF REMOTELY PILOTED AIRCRAFT SYSTEMS (RPAS) IN THE COPENHAGEN FIRE AND RESCUE SERVICE Thomas Braagaard Sylvest, Head of UAV Education and Operation, Copenhagen Fire Department
	INCREASING USE OF DRONES BY EMERGENCY SERVICES IN THE UK
11:55	DRONES AND POLICING Mark Callaghan, Operational Lead for Drones, National Police Chief's Council
12:20	QUESTION AND ANSWER SESSION
12:30	NETWORKING LUNCH AND EXHIBITION
13:30	LIVE DRONE DEMONSTRATION
14:15	BENEFITS OF DRONE USE FOR THE KENT FIRE & RESCUE TEAM Adam Green, Specialist Project Manager, Operational Response Planning, Kent Fire & Rescue Service
14:40	CASE STUDIES OF DRONE TECHNOLOGY USE FOR EMERGENCY RESPONSE Chris Rainford, Watch Manager, Lancashire Fire and Rescue Service
15:05	QUESTION AND ANSWER SESSION
15:15	NETWORKING REFRESHMENT BREAK
	THE LATEST DRONE TECHNOLOGIES
15:45	BIO-INSPIRED PERCHING AND AERIAL-AQUATIC MOBILITY FOR NEXT GENERATION UNMANNED AERIAL VEHICLES Mirko Kovac, Senior Lecturer, Faculty of Engineering, Department of Aeronautics, Imperial College
16:10	QUIZ THE EXPERTS: WHAT ARE THE BARRIERS TO DRONE USE AND HOW CAN WE OVERCOME THESE AS A SECTOR? John Rickard, Safety and Airworthiness Head, Defence Equipment and Support, Ministry of Defence Richard Ross, Principal Inspector, Air Accident Investigation Branch Craig Stead, Pilot, Air Accident Investigation Branch
16:40	CHAIR'S CLOSING REMARKS
16:45	END OF SEMINAR

For the most up-to-date and detailed programme for the event, please visit:
www.imeche.org/drones

- This programme is subject to change.
- The Institution is not responsible for the views or opinions expressed by individual speakers.

HOW TO BOOK YOUR PLACE

FEES AND CHARGES

Registration fees include entry to the sessions, refreshments and a copy of the conference proceedings.

Fees and charges	Early Bird Rates until 20 January 2017	Standard Rates
Member, Institution of Mechanical Engineers/ Supporting Organisation	£234 + VAT = £280.80	£260 + VAT = £312
Non-member	£288 + VAT = £345.60	£320 + VAT = £384
Civil Service Employee	£120 + VAT = £144	£120 + VAT = £144
Student/Retired	£120 + VAT = £144	£120 + VAT = £144

THREE WAYS TO BOOK

- 1 Online:
www.imeche.org/drones
- 2 Email:
eventenquiries@imeche.org
- 3 Phone:
+44 (0)20 7973 1251

Please read the information listed below as each booking is subject to the Institution's standard terms and conditions.

CONDITIONS OF BOOKING

Completed application forms should be returned to the address above, along with the correct payment. Attendance at the event will be confirmed on receipt of the full balance. All participants are advised to bring a copy of their confirmation with them on the day, to ensure the fastest possible entry.

SPECIAL REQUIREMENTS

Please inform us of any special requirements, ie dietary or access, on the relevant section of this form.

Cancellation

For a refund (minus £25+VAT admin charge), cancellations must be received at least 30 days prior to the event. Replacement delegates are welcome at any time. The Institution reserves the right to cancel any event. In this case, the full fee will be refunded unless a mutually convenient transfer can be arranged. In the event that the Institution postpones an event for any reason and the delegate is unable or unwilling to attend

on the rescheduled date, they will receive a full refund of the fee paid. The Institution is not responsible for any loss or damage as a result of a substitution, alteration or cancellation/postponement of an event. The Institution shall assume no liability whatsoever if this event is cancelled, rescheduled or postponed due to a fortuitous event, Act of God, unforeseen occurrence or any other event that renders performance of this conference impracticable, illegal or impossible. For the purposes of this clause, a fortuitous event shall include, but not be limited to: war, fire, labour strike, extreme weather or other emergency.

Please note that while speakers and topics were confirmed at the time of publishing, circumstances beyond the control of the organisers may necessitate substitutions, alterations or cancellations of the speakers and/or topics. The Institution reserves the right to alter or modify the advertised speakers and/or topics if necessary without any liability to you whatsoever. Any substitutions or alterations will be updated on the event's webpage as soon as possible.

LIABILITY

The organisers do not accept liability for any injuries or losses of any nature incurred by delegates and/or accompanying persons, nor for loss or damage to their luggage and/or personal belongings.

CONFERENCE VENUE

Cranfield University, Cranfield
College Rd
Cranfield
MK43 0AL

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OTHER EVENTS TO LOOK FOR



ESSENTIAL MANAGEMENT SKILLS 2017

22 - 24 March 2017, Coventry

Essential Management Skills (EMS 2017) is your chance to take control of your career and develop the unique competencies needed for engineering management success.

www.imeche.org/ems



ALARP: RISK MANAGEMENT FOR ENGINEERING

27 - 28 March 2017, Birmingham

With ALARP cases being examined by regulators for legal and regulatory purposes, understanding best practice and how to prove that ALARP has been properly implemented is key to delivering effective risk management.

www.imeche.org/alarp

The Institution of Mechanical Engineers organises over 120 events a year, including free-to-attend lectures as well as conferences, seminars, annual luncheons and dinners. Please visit www.imeche.org/events for the complete list of events.

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