

# FULMINATION 2023

#### **TOGETHER, TOWARDS TOMORROW.**

#### **PLATINUM SPONSORS**



SAFETY Services Organisation



#### **OFFICIAL EVENT PROGRAMME** TUESDAY 18TH APRIL - THURSDAY 20TH APRIL

**EAST MIDLANDS CONFERENCE CENTRE | NOTTINGHAM UK** 



## **THANK YOU** TOALL SPONSORS





Roxel Countermeasures

(arc











VISION

RESEARCH



QINETIQ

University of Wales



MBDA





SPECIALISED

BAE SYSTEMS



#### #TogetherTowardsTomorrow







#### Welcome to Fulmination 2023,



It is my great pleasure to welcome you to Fulmination 2023, the encompassing event for all sectors of the explosive industry. Following the success of Fulmination 2022 this year we will again see the bringing together of representatives from across the various sectors of the explosive industry as we continue to achieve **Together, Towards Tomorrow.** 

Over the next three days you will see an exciting programme of presentations from a wide and diverse range of speakers and topics from each stream; Institute of Explosives Engineers (IExpE), Ordnance, Munitions and Explosives (OME), and Early Careers.

This year we will again be recognising those individuals and

companies who have made significant contributions or achievement during the past year during our Gala Dinner and Awards on the evening of day 1. This black-tie event will be hosted by our guest announcer, and our guest after dinner speaker. On the evening of day 2 delegates will be able to enjoy a more relaxed networking evening hosted in our outdoor Tipi area.

During the event you will see several individuals wearing blue 'Here to Help' tops. Should you have any questions or need any assistance during the event please do not hesitate in speaking with one of them.

Fulmination 2023 would not be possible without the support of our industry partners, and in particular all our sponsors who you will have the opportunity to meet during the course of the event.

I would also like to give special thanks to Helly Hansen who have provided all of the Event Team's work wear.

Finally, I hope you all have an informative and enjoyable conference and I look forward to meeting with you over the next three days.

Im

Andy Carr | President of the Institute of Explosives Engineers





RAMORA®



#### **Meet the Team**

During the event you will see a number of individuals wearing 'event team' tops. Should you have any questions or need any assistance during the event please do not hesitate to contact one of them and they will be delighted to assist.



Vicki Hall E: vickihall@iexpe.org



Steph Ball E: stephanieball@iexpe.org



Rizza Sims E: rizzasims@iexpe.org



Issey Kelly E: isseykelly@iexpe.org

#### **Key Facilitators**



#### John Veasey

Since 2004 John has worked with security training companies such as ISSEE, Ramora and the International Training Academy. During this time, he was responsible for the day to day planning and organisation of all training delivery.



#### **Dave Praulins**

CertEd, MIExpE former Royal Engineer SNCO, currently Ramora UK explosives officer, with 40 years continuous experience in the explosives industry, teaching and practicing EOD, Land & Sea both in the UK and abraad.





#### **Delivering solutions** to your challenges

Frazer-Nash is a world-class engineering consultancy, specialising in the field of ordnance, munitions and explosives (OME), and their integration into complex weapons systems and platforms. We provide independent and professional expertise, advice, guidance and direction to deliver tailored scientific and technical solutions; from design to disposal.

> With proven experience in the development of timely, high quality independent OME safety advice and system safety, and suitability for service (S3) support, our highly-skilled and experienced engineers understand the complexity of any and all challenges your organisation faces.

> > Whether your need is large or small, you can count on Frazer-Nash to support your goals. Many of the world's leading private and public sector organisations trust us to overcome their most complex challenges.

> > > Find out how we can add value to your organisation: email defenceweapons@fnc.co.uk or visit our website www.fnc.co.uk.



www.fnc.co.uk

SYSTEMS • ENGINEERING • TECHNOLOGY

#### Institute of Explosives Engineers

VOICE OF THE EXPLOSIVES INDUSTRIES

#### **2023** NON MEMBER OFFER

Fulmination 2023 Non-Member ticket holders can apply for IExpE Membership with no Membership application fee.

To access this opportunity, Non-Member ticket holders are required to visit the Fulmination 2023 registration desk during the event to provide their contact details and signature.

### **BECOME A MEMBER**

#### JOIN THE VOICE OF EXPLOSIVES ENGINEERS

If you work in the Explosives Industry or have links to it, we'd like to invite you to become a Member of the Institute of Explosives Engineers (IExpE).



Progress your career; learn about developments & advances in your field and in related disciplines & share a forum with like-minded professional colleagues, all here to support one another.

visit our stand or scan the QR Code for more information.





### FULMINATION 2023 TOGETHER, TOWARDS TOMORROW.

## GALA DINNER & AWARDS

#### **SPONSORED BY**



System Design Evaluation Ltd

HOSTED BY JONNY GOULD WITH GUEST SPEAKER MARTIN BAYFIELD

## **EVENING TIMETABLE**

TUESDAY 18TH APRIL 18:15PM PRE DINNER DRINKS

RECEPTION LOBBY THE ORCHARD HOTEL

BANQUETING SUITE

19:15PM

CALL FOR DINNER

BANQUETING SUITE EAST MIDLANDS CONFERENCE CENTRE

19:25PM WELCOME FROM OUR GUEST ANNOUNCER

19:30PM GALA DINNER

BANQUETING SUITE EAST MIDLANDS CONFERENCE CENTRE

EAST MIDLANDS CONFERENCE CENTRE

21:30PM AFTER DINNER SPEECH FROM BANQUETING SUITE OUR GUEST SPEAKER

22:30PM AWARDS PRESENTATIONS

BANQUETING SUITE EAST MIDLANDS CONFERENCE CENTRE



#### GALA DINNER & AWARDS SPONSOR

System Design Evaluation Ltd





RAMORA®



#### **Coach Transfers**

For delegates staying in the off-site accommodation at the Jubilee Hotel coach transfers will be provided between the Jubilee Hotel and East Midlands Conference Centre throughout Fulmination 2023.

#### Pick up locations:

Jubilee: The drop off/ pick up at the side of the hotel. If guests come out of the lake side entrance, turn right and the bus will wait on the road straight in front of them.

EMCC: The bus will drop off / pick up on the road just outside the car park entrance barrier.

#### Transfer times\*:

#### Tuesday 18th April 2023

- 08:30 09:30 Shuttle service provided (approximately every 10 minutes) Jubilee Hotel to East Midlands Conference Centre
- 15:55 16:40 Shuttle service provided (approximately every 10 minutes) East Midlands Conference Centre to Jubilee Hotel
- 17:50 18:40 Shuttle service provided (approximately every 10 minutes) Jubilee Hotel to East Midlands Conference Centre
- 23.59 East Midlands Conference Centre to Jubilee Hotel

#### Wednesday 19th April 2023

- 08.40 09:40 Shuttle service provided (approximately every 10 minutes) Jubilee Hotel to East Midlands Conference Centre
- 16:55 17:55 Shuttle service provided (approximately every 10 minutes) East Midlands Conference Centre to Jubilee Hotel
- 18:45 19:30 Shuttle service provided (approximately every 10 minutes) Jubilee Hotel to East Midlands Conference Centre
- 23:00 East Midlands Conference Centre to Jubilee Hotel
- 23:30 East Midlands Conference Centre to Jubilee Hotel

#### Thursday 20th April 2023

- 08:30 09:15 Shuttle service provided (approximately every 10 minutes) Jubilee Hotel to East Midlands Conference Centre
- 15:00 16:00 Shuttle service provided (approximately every 10 minutes) East Midlands Conference Centre to Jubilee Hotel

\*Shuttle service times are approximate and dependent upon traffic conditions on the day.



## NETWORKING NIGHT

#### WEDNESDAY 19TH APRIL | 19:30-23:59

Banqueting Suite A and Outside Tipi Area



WWW.SSO.GROUP



RAMORA®



#### **Introducing the Speakers**

for Fulmination 2023

Taking place within the Conference Theatre and Banqueting Suite A & B, **Fulmination 2023** includes the following speakers.

#### DAY ONE Tuesday 18th April

#### **REGISTRATION, CONFERENCE CENTRE RECEPTION | 09:00-09:50**



Andy Carr Opening Address Conference Theatre | All Delegates 09:50 - 10:00



Nathan Flood Challenges for the Explosives Sector -Regulators Perspective Conference Theatre | All Delegates 10:00 - 10:25



#### Andrew Parker

An overview of the STASIS multi-phase thermochemical code Conference Theatre | All Delegates 10:25 - 10:50

REFRESHMENT BREAK | 10:50-11:20

5th Year OME Apprentices Presentations

5th Year OME Apprentices Presentations Brailsford Suite 11:00-12:30



Sharing Ammunition Management Best Practice in the International Community Conference Theatre | **OME Stream** 11:20 – 12:05

Martin Underwood



Vincent Coombs & Tom Mills Early Careers Introduction Banqueting Suite A | Early Careers Stream 11:20 – 12:05



Stephen Miller Welsh Rock Cannons and other Explosive Celebrations Banqueting Suite B | IExpE Stream 11:20 - 12:05

MOVEMENT OF DELEGATES | 12:05-12:15



#### #TogetherTowardsTomorrow







#### DAY ONE Tuesday 18th April



Andy Hubble Let's Scrap Fireworks Banqueting Suite B | IExpE Stream 12:15 - 12:45



**Richard Battrick** Underwater Explosive Ordnance -A changing story Conference Theatre | OME Stream 12:15 - 12:55



Andy Pettitt Explosives and the explosives engineer - A journey Banqueting Suite A | Early Careers Stream 12:15 - 12:35

#### LUNCH | 12:35-13:45



**Gareth Bex & Phil Pitcher** Maritime Explosives Safety -Lets have an argument Banqueting Suite B | IExpE Stream 13:45 - 14:15



Sam Webb Placement within team Hersa Banqueting Suite A | Early Careers Stream 13:45-14:15



Andrew (Jack) Longbottom The front line of OME operations Conference Theatre | OME Stream 13:45 - 14:15



Harry Trowsdale Got there, gone bang, now what? An overview of lethality modelling Banqueting Suite A | Early Careers Stream 13:45 - 14:15

#### **MOVEMENT OF DELEGATES | 14:15-14:25**



**Roland Alford** The Demolition of Didcot **Power Station** Banqueting Suite B | IExpE Stream 14:25-15:00



Jon Toreheim Appetite for DSTRCTN Conference Theatre | OME Stream 14:25-15:00



#### #TogetherTowardsTomorrow







#### DAY ONE Tuesday 18th April



**REFRESHMENT BREAK | 15:00-15:25** 

#### Samuel Yeap

Numerical modelling of ballastic impacts and blasts Banqueting Suite A | Early Careers Stream 14:25-15:00



#### Adarsh Caliankara

A summary of Roxel's previous and present accomplishments and discoveries made on WAAM Banauetina Suite A | Early Careers Stream

14:25 - 15:00



**Rebecca Yates** WOME Disposal - More environmentally sustainable practices Conference Theatre | OME Stream 15:25-15:55



Vincent Coombs The Process Capability of Resonant Acoustic Mixing Banqueting Suite A | Early Careers Stream 15:25-15:55



#### Liam Bermingham Digital Blasting - Creating the Platform to Achieve Net Zero Banqueting Suite B | IExpE Stream 15:25-15:55

#### DRINKS RECEPTION, THE ORCHARD HOTEL, RECEPTION AREA | 18:15-19:15

#### GALA DINNER & AWARDS EVENING, BANQUETING SUITE | 19:30-23:59

#### DAY TWO

#### Wednesday 19th April

#### **REGISTRATION, CONFERENCE CENTRE RECEPTION | 09:30-10:00**



#### Andy Carr

Opening Address Conference Theatre | All Delegates 10:00-10:05



#### Marc Olbort

Track and Trace in Europe and worldwide: Beginning, Present and Future Conference Theatre | All Delegates 10:05-10:35



#### #TogetherTowardsTomorrow







#### DAY TWO Wednesday 19th April



#### **Ruth Barber**

Developments in Health and Safety Law Conference Theatre | All Delegates 10:35-11:05

#### **REFRESHMENT BREAK | 11:05-11:35**



Andy Grantham Surplus Ammunition Stockpile Management in Peru Bangueting Suite B | OME Stream 11:35-12:05



David Crofts DM Cadmid (Demonstration and Manufacturer) Banqueting Suite A | All Delegates 11:35-12:05



#### Stephen Miller, Shaun Dooley and Liam Kidman The Stepping Stones of Professional Reaistration Conference Theatre | IExpE Stream 11:35-12:05

#### **MOVEMENT OF DELEGATES | 12:05-12:15**



#### Lee Thornhill Challenges and positives; Public and Private Sector Conference Theatre | IExpE Stream 12:15-12:45



**Bob MacNauaht** Simplifying Explosive Ordnance Safetv Banqueting Suite B | OME Stream 12:15-13:00



Mark Ashcroft Safety and Suitability for Service, **QinetiQ Munition Life Assessments** - An AUS/UK Perspective Banauetina Suite A | Early Careers Stream 12:15-12:40

LUNCH | 12:40-14:00





#### #TogetherTowardsTomorrow







#### DAY TWO Wednesday 19th April



#### Mark Pegden

Licensing the storage of explosives underground in mines Conference Theatre | IExpE Stream 14:00-14:45



James Brodier Opensource Target Characterisation, why bother? Banqueting Suite B | OME Stream 14:00-14:45

#### Team Building

#### **Team Building** Banqueting Suite A | All Delegates 14:00-16:55

#### **MOVEMENT OF DELEGATES | 14:45-14:55**



Erik Tunestal Testing Methodology for **UN Transportation** Bangueting Suite B | OME Stream 14:55-15:40



#### Matthew Didsburv

Flow Synthesis - Scale up of a UK energetics synthesis capability Conference Theatre | IExpE Stream 14:55-15:40

#### **REFRESHMENT BREAK | 15:40-16:10**



#### **Gaynor Olliver**

The Insensitive Munitions European Manufacturing Group Ageing Expert Working Group Banqueting Suite B | OME Stream 16:10-16:55

NETWORKING EVENING | 19:30-23:59



Andrew Nicholson Modelling secondary fragmentation with Viper : Blast Conference Theatre | IExpE Stream 16:10-16:55



#### #TogetherTowardsTomorrow







#### DAY THREE Thursday 20th April

#### **REGISTRATION, CONFERENCE CENTRE RECEPTION | 09:00-09:30**



#### Andy Carr Opening Address Conference Theatre | All Delegates 09:30-09:35



#### Mark Hardman, Tom Mills, Julie Softley, Rhys Jobbins & Andy Burn

Sector Skills Strategy Group (SSSG) and Working Groups Update Conference Theatre | **All Delegates** 09:35-10:05

#### MOVEMENT OF DELEGATES | 10:05-10:15



#### Patrick Gericke Overview of the historical mine threat in then Rhodesia/Zimbabwe/Angola during the 70's and 80's Banqueting Suite B | IExpE Stream 10:15-11:00



#### Philip Cheese

The best time to plant a tree was 20 years ago. The second-best time is now Conference Theatre | **OME Stream** 10:15-11:00



#### Zen Nicoles, Andy Carr & Liam Bermingham Careers Panel Banqueting Suite A | Early Careers Stream 10:15-11:00

#### **REFRESHMENT BREAK | 11:00-11:30**



#### Jack Williams

Temperature Ignition and Growth Model for application in smart Qualification of Energetics Conference Theatre I **OME Stream** 11:30-12:10



#### lan Murray

Industrial Manufacture of Energetic Materials within the UK including developments in flow chemistry Banqueting Suite B | **IExpE Stream 11:30-12:10** 

Retention Workshop Retention Workshop Banqueting Suite A | Early Careers Stream 11:30-12:55



#### #TogetherTowardsTomorrow







#### DAY THREE Thursday 20th April

12:20-12:50

#### MOVEMENT OF DELEGATES | 12:10-12:20



#### Lucy Garland Computational Fluid Dynamics Manufacturing Processes Conference Theatre I **OME Stream**



Liam Kidman

How the AT Trade has pursued professional recognition Banqueting Suite B | **IExpE Stream** 12:20-12:45

#### LUNCH | 12:45-13:50



Malcolm Whyatt & Gethyn Jones Similar Risks, Different Faces Conference Theatre | All Delegates 13:50-14:20



#### Ruaraidh Wells

Continuous crystallization of energetic materials using continuous oscillatory baffled crystalliser Conference Theatre | All Delegates 14:20-14:50



Andy Carr Closing Address Conference Theatre | All Delegates 14:50-15:00

## THANK YOU TO ALL SPONSORS



## SAVE THE DATE MEMBERS WEEKEND

<u>22 07 23</u>

12

TII

DE VERE TORTWORTH COURT, TORTWORTH, WOTTON-UNDER-EDGE, GL12 8HH

**FIND OUT MORE AT: IEXPE.ORG** 



LIII

FOR IEXPE FELLOWS & PAST PRESIDENTS

## DYNAMITE DINNER

#### **19TH SEPTEMBER 2023**

The Voco, Reading, RG2 OFL

If you are interested in attending please send an email to vickihall@iexpe.org



#### PRACTICAL AND CONSULTANCY SERVICES

- ⇒ Explosive Ordnance Disposal (EOD)
- ⇒ Improvised Explosive Device Disposal (IEDD)
- ⇒ Area Clearance
- $\Rightarrow$  Stockpile Destruction
- $\Rightarrow$  Hazardous Chemical Disposals
- $\Rightarrow$  Land ROV access and search
- ⇒ Underwater ROV Support/Search
- ⇒ Maritime Ordnance Search & Disposal
- ⇒ Client Representatives for large scale projects
- ⇒ Salvage and Demolition
- ⇒ Methods of Entry
- ⇒ Drone survey and SAR support to Emergency Services
- ⇒ Expert Witness
- ⇒ Research and Development

#### TRAINING AND EQUIPMENT SOLUTIONS

- ⇒ Explosive Ordnance Disposal Operator (EOD)
- ⇒ Improvised Explosive Device Disposal Operator (IEDD)
- ⇒ Assault IEDD Operator (AIEDD)
- ⇒ Clearance Diver
- ⇒ Explosive Methods of Entry (EMOE)
- ⇒ EOD Train the Trainer
- ⇒ Range Safety and Trial Conducting Officer (RSO/TCO)
- ⇒ Explosives Disposal Operations
- ⇒ Demining and Area Clearance







www.ramorauk.com

08454608911

enquiries@ramorauk.com



VOICE OF THE EXPLOSIVES INDUSTRIES

**GOLD 1** 

## FULMINATION

**CONFERENCE SUITE 1** 









PLATINUM ONE

BAE

SYSTEMS

GOLD 5



**CONFERENCE SUITE 2** 





**CONFERENCE SUITE 3** 









ARMY **BRONZE 2** 

**CONFERENCE SUITE 4** 







**BRONZE 1** 

**BRONZE 8** 





## FULMINATION 2023 WE WOULD LOVE TO HEAR YOUR FEEDBACK

Scan the QR code below for interaction, questions and to submit your feedback.

**SCAN ME** 



## E A E HSE

## HSE LOCATION GALLERY SUITE 2

## TOGETHER TOWARDS TOMORROW