

# 2 SPECIALIST DAYS

## Grand Harbour - Southampton UK

Focus on Sub IMO / Sub 24m Professional Craft

# NEXTGEN

## SHOCK

### Mitigation Solutions

**WORKSHOP • 31 MARCH 2020**

# MARINE RS+WBV

## Whole Body Vibration Awareness

**TRAINING • 1 APRIL 2020**

### **Relevant to Professional - Commercial - Military:**

End-user Organisations // Operators // Boat Builders  
Equipment Manufacturers // Naval Architects // Safety Integrators  
Training Organisations // Ports & Harbours // Maritime Legislators

### **Marine Safety and New Technology for:**

Work Boats // Pilot Boats // Patrol Craft // Search & Rescue  
Wind Farm Support // Offshore // Survey Vessels // Police & Security  
Training & Charter Vessels // Superyacht Tenders

### **You can attend for a single day - Standard Rate: £195 per day**

British Marine / RINA / UKMPA / UKHMA / YBDSA Rate: £175 per day

Military / Government / Academia / SAR Rate: £175 per day

### **To book a place or for further information:**

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[www.nextgen-marine.com](http://www.nextgen-marine.com)

<b>THEME: Have Vibration Directives helped crews &amp; maritime operators?</b>	
08:30 – 09:00	Registration & Coffee
09:00 – 09:15	<b>John Haynes – Workshop Lead</b> Introduction / Workshop Aims & Objectives
09:15 – 09:45	<b>John Haynes – Managing Director, Shock Mitigation</b> Developing Effective Training Solutions to Benefit Crews and Operators in a Changing World
09:45 – 10:15	<b>Dr Tom Coe – WBV &amp; Noise Project Manager, Royal National Lifeboat Institution (RNLI)</b> Safe & Fast - To Save Lives at Sea Rescuers Need to Reach Casualties in Extreme Conditions
10:15 – 10:45	<b>Capt Don Cockrill MBE FNI – Secretary General, UK Maritime Pilots Association</b> Commercial Time Pressures and the Increased Speed of Workboats in All Conditions
10:45 – 11:15	Coffee
11:15 – 11:45	<b>John McCorquodale – Inspector, Marine Accident Investigation Branch (MAIB)</b> Lessons Learned from Recent Accidents & Incidents on RIBs and Fast Craft
11:45 – 12:00	<b>Julie Carlton – Seafarer Safety &amp; Health Manager, Maritime and Coastguard Agency (MCA)</b> The Aims of Marine Guidance Notices for Controlling Whole Body Vibration Risks
12:00 – 12:30	<b>PANEL DISCUSSION #1: Control of Vibration at Work</b> Implications of complying / Exemption & partial exemption / Procedure for use of MGN 446
12:30 – 13:00	<b>PANEL DISCUSSION #2:</b> Have Vibration Directives helped maritime operations? / Duty of Care for Crews & Passengers
13:00 – 14:00	Lunch
14:00 – 14:30	<b>Phill Moxley – Senior Engineer, Frazer-Nash Consultancy / BS WBV Panel</b> Utilising Science & Data / Update on British Standards Whole Body Vibration Panel
14:30 – 15:00	<b>INNOVATION Presentations</b> Shock Mitigation Technology - Suspension Seating - Other topics TBC
15:00 – 15:30	<b>PANEL DISCUSSION #3:</b> What is meaningful vibration & impact data? How can we use data to help individuals & groups?
15:30 – 15:45	Coffee
15:45 – 16:00	<b>Shock Mitigation Begins With the Hull to Water Interaction</b> Naval Architects - Designers - Boat Builders
16:00 – 16:30	<b>INNOVATION Presentations</b> Innovative Hull Forms - Foiling - Appendages - Other topics TBC
16:30 – 17:00	<b>PANEL DISCUSSION #4: Presenters address the Burning Issues</b> How else can we reduce the risk of injury on fast craft?
17:00	End Of Workshop

**NEXT GEN PRESENTERS**



## NEXT GEN SPONSORS



SKYDEX is a global leader in impact mitigation and cushioning solutions. Installed in over 26,000 military vehicles and 6,000 marine craft, SKYDEX proprietary technology is engineered to excel in the harshest and most demanding conditions. By customizing their technologies to meet specific requirements, SKYDEX maximizes product and end-user performance. SKYDEX is dedicated to Protecting Things That Matter® [www.skydex.com](http://www.skydex.com)



SCOT SEAT have developed the knowledge and experience to provide world class marine seating solutions. The marine range includes shock mitigation jockey and helmsman style seats, crew and passenger seating. In-house skills include metal fabrication, joinery, upholstery, spray painting / coating and composite manufacture. Scot Seats Group design and manufacturer seating for multiple transport sectors. [www.scotseats.co.uk](http://www.scotseats.co.uk)



DYENA Offshore is a vessel and crew health monitoring solution designed to aid operators in managing the fleet and wellbeing of their staff. Features information on position, performance and crew manifest plus recording acceleration and vessel motion in 6 axes. System can monitor and review engine parameters, vessel use for condition based maintenance and provide man overboard alerts. [www.dyena.com](http://www.dyena.com)



SEAir's founding idea is that hydrofoil technology should be made more mainstream. Based in Lorient France, SEAir has expertise in foiling sailing yachts and motor boats. SEAir makes alterations to existing boats and also designs the boats of the future, alone or in partnership with boat builders. SEAir has designed a digital simulator with which it can configure any type of foiling boat. [www.seair-boat.com](http://www.seair-boat.com)



SHOCKWAVE design, develop and manufacture a range of marine suspension seating. Shockwave ICE - Integrated Control Environment - are suspended cockpits designed to provide adjustable, multi-axis shock mitigation for vessel crews, equipment and electronics. Shockwave is dedicated to marine safety and adventure with a history of taking products into some of the most severe open water conditions on the planet. [www.shockwavesats.com](http://www.shockwavesats.com)

<b>THEME:</b> Mitigating against the effects of impacts and vibration on vessels	
08:30 – 09:00	Registration & Coffee
Session 1	Fast Boat Sector OVERVIEW
	<b>Introduction to RS &amp; WBV</b> Understanding the effects of Repetitive Shock and Whole Body Vibration on fast boats.
	<b>Sub IMO / Sub 24m Professional Vessels</b> Evolution and characteristics of fast craft, workboats and RIBs (Rigid Inflatable Boats).
	<b>Marine Guidance Notices / UK Vibration Directive / EC Vibration Directive</b> Understanding the aims and objectives for marine transport and relevant safety standards.
10:45 – 11:00	Coffee
Session 2	RS & WBV Awareness for THE CREW
	<b>RS &amp; WBV Forces At Sea</b> What and where are the forces that crews and passengers are affected by on the water.
	<b>Fast Boat Operator Skills</b> Planning and techniques professional operators can use to reduce effects of RS & WBV.
	<b>Prehabilitation versus Rehabilitation</b> How boat operators and crews can adopt a culture of injury prevention in a dynamic workplace.
12:45 – 13.30	Lunch
Session 3	RS & WBV Awareness for THE TEAM
	<b>Shock Mitigation By All Means</b> The evolution of technology, novel hull forms, suspension seating and data loggers.
	<b>Professional &amp; Commercial Issues</b> Considering how other fast boat sectors manage RS & WBV issues.
15:00 – 15:15	Coffee
Session 4	SUMMARY
	<b>Risk Management</b> Integrating vibration with existing risk assessments and maritime safety plans.
	<b>Learning from Other Sectors</b> Considering practical approaches and simple solutions.
16:30	End Of Workshop

The immediate and long term effects of impact and vibration - Repetitive Shock & Whole Body Vibration - on crews and passengers need to be understood by ALL operators. Lower speed workboats face different issues to high speed powerboats - the shared objective is taking simple, cost effective steps to reduce risk.

The day is designed to be highly relevant to ALL sectors operating sub 24m craft in open sea and estuary conditions. Utilising the latest industry best practice and knowledge, sessions look at what are the forces that really affect people in waves and how different groups are taking action to reduce injuries.