

The Use of Remote Operated Vehicles and Robotics

Nuclear decommissioning and other applications

Wednesday 20 March 2013

SKM Enviros | Telegraphic House | Waterfront Quay | Salford Quays | M50 3XW

E13400

Remote operated vehicles (ROVs) and other robotic devices are increasingly being used in situations where access is restricted, operations are time-consuming for human operators or the environment is dangerous. This event will look at the role of ROVs etc. in a range of applications including taking measurements and samples, handling and other processing applications.

While the event will focus on the nuclear sector, many of the technologies might be appropriate for application in restricted or hazardous environments associated with construction and asset management.



Programme

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| <p>10.00 Registration and coffee</p> <p>10.30 Chairman's welcome
Peter Booth, WSP</p> <p>10.40 Introduction – The nature and scale of the challenge
Sellafield – This presentation will provide an overview of the challenges that can be addressed by ROV and Robotic technologies. It will outline situations where these techniques have been applied, describe current developments and identify some of the longer-term challenges. It will consider a range of applications including underwater and aerial devices.
Demonstration of the "Wall Rover"
Alex Jenkins Sellafield</p> <p>11.05 Horses for courses - matching applications to needs the nuclear, and other sectors have taken a variety of approaches to applying ROV technologies. This presentation will consider these approaches which have ranged from adapting existing platforms to the creation of bespoke machines, The presentation will also cover how ROV designs can be adapted to operate in different environments.
Jon Montgomerie, AMEC</p> | <p>11.40 Opportunities and applications. An overview of how ROVs and Robotics are being deployed at Dounreay
Charlie Fowler, DSRL</p> <p>11:55 Case study - Dounreay particle clean up. Land & Marine, working with DSRL and Nuvia recently successfully completed a project involving the use of ROVs on the sea-bed. The presentation will outline the challenge and describe the technology and how it was used.
Steve Goodwin, Land & Marine</p> <p>12: 20 Lunch, networking and demonstration</p> <p>13.15 Future developments - The National Nuclear Laboratory is part of an EPSRC-funded industry group looking at the application of Autonomous technologies. The vision is to develop machines with artificial intelligence that reduces or obviates the need for direct remote control
Jeffrey Kuo, National Nuclear Laboratory</p> <p>13:45 Technology transfer - Current ROV platforms and capabilities in the military and other sectors including handling hazardous materials, platform architectures and training and simulations
Robert Suttling, Quinetiq</p> <p>14.15 Discussion session
Peter Booth, Safespur Chairman and WSP
Future SAFESPUR Events</p> <p>14:45 CLOSE</p> |
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