

Underwater Vehicles: 2nd Advanced Technologies in Underwater Vehicles Conference (ATUV 2006)

Held at World Maritime Technology Conference 2006
(WMTC 2006)

London, United Kingdom
6-10 March 2006

ISBN: 978-1-7138-6241-3

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2006) by Institute of Marine Engineering, Science & Technology (IMarEST)
All rights reserved.

Printed with permission by Curran Associates, Inc. (2022)

For permission requests, please contact Institute of Marine Engineering, Science & Technology (IMarEST)
at the address below.

Institute of Marine Engineering, Science & Technology (IMarEST)
1 Birdcage Walk
London, SW1H 9JJ
United Kingdom

Phone: +44 (0)20 7382 2600
Fax: +44 (0)20 7382 2670

www.imarest.org

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2633
Email: curran@proceedings.com
Web: www.proceedings.com

Contents

Page	Title
Underwater vehicles papers	
1	AUTOTRACKER Autonomous Pipeline Inspection Sea Trials 2005 P Patrón, J Evans, J Brydon, Seebyte Ltd, UK; J Jamieson, Subsea 7, UK
10	Military operations with the HUGIN AUVs P E Hagen, N Storkersen, FFI, Norway
19	Recovery operations with the submersible Thetis and ROVs in Greece Cdr H N (rt) S Volonakis, Dr C Smith, T Fotopoulos, M Kallergis, K Katsaros, A Mallios, L Monousakis, N Spyridakis, V Stasinou, Hellenic Centre for Marine Research, Greece
26	Autonomous hull-relative survey under marine vessels and structures F Hover, Massachusetts Institute of Technology, USA; J Vaganay, Bluefin Robotics Corporation, USA
32	A smooth simultaneous localisation and mapping solution to improve situational awareness, mission planning and re-planning for AUVs P Patrón, Dr I Tena Ruiz, Heriot-Watt University, UK
40	Biomimetic underwater vehicle for inspection of coastal underwater structures Dr N Kato, Dr H Suzuki, Osaka University, Japan
44	Development of unmanned surface vehicles D Hook, Autonomous Surface Vehicles Ltd, UK
54	The development of a variable buoyancy system Dr M Worall, Dr P Bagley, Dr A Jamieson, A Holford, Prof M Player, Dr R D Neilson, University of Aberdeen, UK
63	TROL - Solving the underwater radiation detection enigma M French, Fathoms Ltd, UK
73	Autonomous underwater vehicles in ocean science: case studies from, and future applications within, the National Oceanic and Atmospheric Administration J Manley, Mitretek Systems/NOAA, USA
82	Potential environmental constraints on the use of AUVs within the coastal zone - a way forward W Aicken, R Rogers, Dr S Jones, Dr S Healy, QinetiQ, UK
91	ROV Engineers: the next generation G Dunbar, The Robert Gordon University, UK