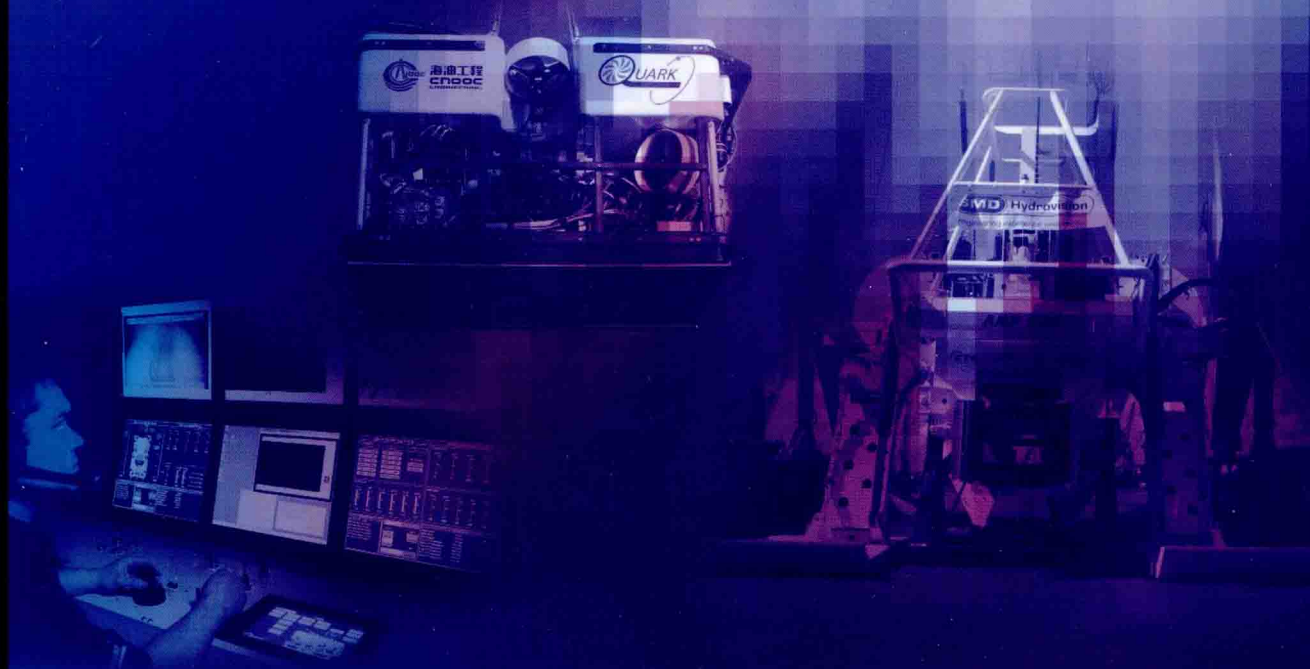




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**SEVENTH
EDITION**
2006 / 2007

underwater vehicles
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Remotely Operated Vehicles of the World

Seventh Edition

2006/2007

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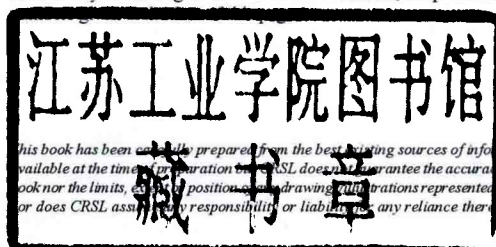
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SMD Hydrovision designs and manufactures a complete range of products from workclass ROVs to specialised trenching ROVs, ploughs and tractors. The company also produces the Curvetech range of components, including lightweight thrusters; powerpacks; pressure compensators; servo and solenoid valve packs and flexible, distributed control systems.

Details of the latest additions to the SMD Hydrovision fleet (Q-Series Advanced Hydraulic Workclass ROVs) can be found on page xxx and pages 92-95.



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Foreword

I am very pleased to have been invited to write this foreword for the seventh edition of **Remotely Operated Vehicles of the World**. This splendid publication is the definitive reference document for all subsea industries and activities. It not only covers ROVs as the title implies, but also AUVs and support vessels. Clarkson Research Services Limited is to be congratulated on its hard work and meticulous research. This, the seventh edition, is the best and most comprehensive yet; it will prove invaluable to anybody with subsea interests.

Having just read the foreword in the sixth Edition of **Remotely Operated Vehicles of the World**, I am astonished by how much our world has changed in just two and a half years. The business atmosphere, the mood and attitude of the offshore oil and gas industry are unrecognisable compared with 2003 when the sixth edition was published.

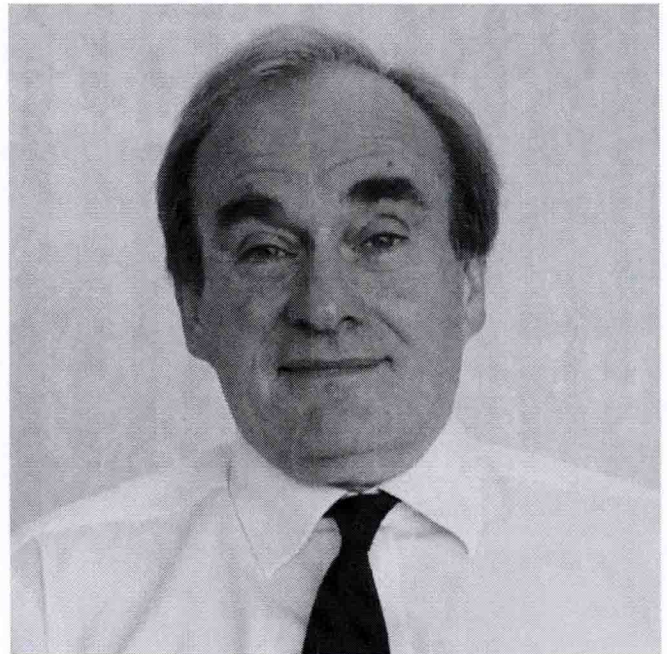
The world order is changing. Nearly three billion people - half the world's population - in China, Indonesia, India and the former Soviet Union countries want and expect to improve their lifestyles, incomes and standards of living. Only through a massive consumption of hydrocarbons can these countries ever achieve this growth and wealth. Oil is ultimately a finite resource, meaning that high oil prices are here to stay.

Offshore and onshore the oil and gas industry is flourishing because of these prices. There are more new vessels, ROVs and AUVs being built today than at any time in the last quarter of a century. This level of activity is a catalyst for innovative new products and technologies and will finally give AUVs the opportunity to demonstrate their full potential. AUVs have had a slow start for two principal reasons. Firstly, the business case, which is easy to do, has not yet been properly made and accepted within the industry. Secondly, the few AUVs that are in routine operation have been so effective that they are victims of their own productivity – you don't need so many!

In the current overworked and under-resourced market, however, support vessel time is at a premium. Productive AUVs allow more jobs to be completed in less time and will enable the multi-tasking of vessels. AUVs operating from platforms and FPSOs can also save considerable vessel time with their ability to inspect pipelines and satellite wells – autonomously! Hopefully an oil major will recognise these tremendous benefits in the near future and step forward to champion the cause.

In addition to offshore oil and gas, there are several other major subsea and inshore interests and industries which are making use of ROVs and AUVs of all shapes, sizes and abilities. The low cost vehicle market is thriving and it is interesting and encouraging to see a variety of new military applications for what they call UUVs. The US Navy recently announced that it is making significant progress in the development of UUVs in 'the mission areas of reconnaissance, surveillance and anti-mine warfare'.

In the sixth edition I said, 'ROVs and AUVs are one of mankind's most exciting but least known engineering achievements'. With the new worldwide boom in activity, they should at long last become properly recognised. There is no better way for newcomers, and the professionals, to educate themselves on these wonderful products than through these the pages of the seventh edition of the **Remotely Operated Vehicles of the World**.



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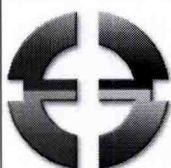
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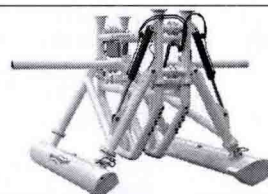
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- Sea Titan pipeline ploughs
- Sea Tempest jet sleds
- Medusa rock dump ROV
- Specialist launch & recovery



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SCV-3000 Block 1A

Argus Remote Systems A/S
Argus Abyss
Argus Abyss Bathysaurus
Argus Mariner
Argus Mariner XL
Argus Mini
Argus Rover Mk II

Atlas Elektronik GmbH
C-Cat
C-Scout
DeepC
Penguin B3
Seafox C/I
Seewolf

ATLAS MARIDAN ApS
SeaOtter Mk I
SeaOtter Mk II

Australian National University
Kambara
Serafina

Autonomous Surface Vehicles Ltd
SASS 6m

Autonomous Systems Laboratory (ASL)
ODIN (Omni-Directional Intelligent Navigator)
SAUVIM

BAE Systems
Archerfish
Marlin

Benthic Geotec Pty Ltd
Prod 1

Bluefin Robotics
Bluefin-9
Bluefin-12
Bluefin-21
Bluefin-21 BPAUV
Spray

Bluefin Robotics/MIT
HAUV

Boeing Integrated Defense Systems/Fugro NV/Oceaneering International Inc
Echo Ranger AUV

Bohlen & Doyen Submarine Cable & Pipe GmbH & Co KG
Burial Sled BS2
Burial Sled BS3
Rocksaw RS2
Vibration Plough VP1

Chelsea Technologies Group
Aquashuttle Mk III
NV-Shuttle
Seasoar Mk II

CNR - Istituto Automazione Navale
Romeo

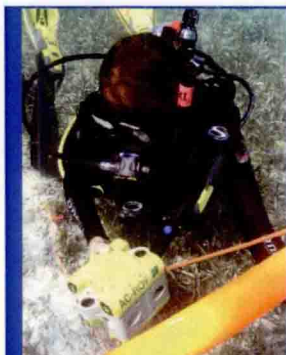
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ALIVE
Junior
Spider
Swimmer

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Firefly
Phantom 150
Phantom DHD2+2
Phantom DS4
Phantom HD2
Phantom HD2+2
Phantom Pipeliner
Phantom XTL
TriggerFish
Vector L-4
Vector M-5

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Titan Surveyor

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MAX Rover Mk 3 Global Explorer
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OLISTER F.D.S.
OLISTER M.I.D.S.
Pap Mark 5
PAP MK3 / PAP Plus
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Victor 6000

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Scanfish Mk I
Scanfish Mk II

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Dragon
Otter
Salamander
Shallow Water Power Cable Plough
Viper

Falmouth Scientific Inc

SAUV II

Florida Atlantic University

Ocean Explorer
Ocean Voyager II

Fugro Survey PTE [ex Thales-geosolutions]

FCV 3000
G3
G4
Sea Pup Mk II/III
Seal
Sealion 3000
Sealion Mk II
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- Marine Operations
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Life Guard "Panther"

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RAUVER Mk II

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DeepSea Constructor

Hydroid Inc

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Nemo P300

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r2D4

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MT-88

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Dolphin Mk II

Dorado

Theseus

It International Telecom Inc

IT Explorer

J W Fishers Mfg Inc

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Sea Lion

Sea Otter

TOV-1

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Urashima (AUV-EX1)

UROV7K

KDDI R & D Laboratories

Aqua Explorer 2

Aqua Explorer 2000

Kongsberg Defence & Aerospace AS, Stjørdal

Minesniper

Kongsberg Maritime AS

Hugin 1000

Hugin 3000

Kraft TeleRobotics Inc

M5-A Scout

KYSTDESIGN AS

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Taipan 1

Taipan 2

Land & Marine Project Engineering Ltd

Trenching Machines TMV, TMVI and TMVII

LD TRAVOCEAN

COPS Seabed Tractor

EBJ 02 Towed Jetting Sledge

ESV 07/3 Towed Plough

ESV 11/3 Towed Plough

Koura 1

Koura 2

Mermed 1

Mermed 2

MUC 201

TM 02 Cable Embedding Vehicle

TM 03

Lockheed Martin Naval Electronics & Surveillance Systems/ Perry Technologies

RMS (Remote Minehunting System)

LTI SA

Achille 2000

Achille M4/M4C/M4C 600

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MacArtney A/S

Focus 2

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SubjuGator V

Malm Orstad AS

SCV Solo Mk 2

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Marine Magnetics

SeaQuest (magnetic gradiometer platform)

Mariscope Meerestechnik

Diavolo
Diavolo-II
FO
FO-II
Hunter

Merlin Subsea AS [ex Rovco AS]

Astrix
Merlin I and II (Remote Trenching System)

MIT, Sea Grant College Programme

AutoCat

Mitsui Engineering & Shipbuilding Co Ltd

Dolphin-3K
Kaiko

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Senta Kun
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Magellan 725
NOMAD 6000
Ocean Discovery
Ocean Explorer 6000
Phoenix Cable Maintenance System
SpiderBOT

Oceanteam Power & Umbilical

Oceanjet 900
ROTS I

Outland Technology Inc

Outland 1000

Perry Slingsby Systems Inc

Triton® T-750
Triton® MRV
Triton® P1500/P3000
Triton® T-200
Triton® T-500
Triton® T-1000
Triton® XL 250
Triton® XLS

Perry Slingsby Systems Ltd

Triton® SP

Perry Technologies

Aloupis
Cetus
Cetus II

Phoenix International Inc

Nereus II
Remora 1000
Remora 6000
Triton® T-210
X-Bot II

Prizm Advanced Communications Electronics Inc (formerly Sias Patterson)

Fetch Class AUVs (Fetch 2, Fetch 3.5)

Prysmian Cables & Systems

Hydroplow - Post Lay
Hydroplow 1
Hydroplow 2
Hydroplow HD-4
Sea Crawler

PSL Energy Services Ltd

JetProp 25 Series
JetProp 75 Series HP Unit
JetProp 250 Series HP Unit

RINAVE

Caravela 2000

Robin Burrows

Starfish

Saab Underwater Systems AB

Double Eagle Mk II
Double Eagle Mk III
Sea Owl 500 Mk IV

Scan Mudring A/S

Scandredge
Scanmaskin 1000 E-Type 8K
Scanmaskin 1000 MK II