Dr Terry O'Brien receives Queen's Birthday Honours

A MELBOURNE engineer who owns a property near Penshurst has been awarded a Medal of the Order of Australia (OAM) yesterday's Queen's Birthday Honours List.

Dr Terry O'Brien, whose world-leading software navigation technology reduces the risk of ship groundings and saves billions of dollars for the world's shipping industry, said he was delighted to be awarded an OAM.

Dr O'Brien, is a former University Melbourne academic and Harkness Fellow who founded maritime engineering firm OMC International in 1987, has been honoured with an OAM for services to the maritime transport industry. 'This is a great personal honour but I accept it also on behalf of the entire OMC team whose expertise and dedication ensures that our innovative technology is taken up by industry and continues to be the world's best in this specialised field," he said.

Dr O'Brien is a recognised world expert on accurately calculating (to the cm) how close to the seabed a vessel can sail without touching the bottom, which is the critical Under Keel Clearance (UKC) factor. His Dynamic Under Keel Clearance (DUKC) software navigation technology is the only system that operates just prior to or during the actual ship transit through shallow channels. It is the only proven system worldwide that has the capacity to accurately determine the critical vertical component of navigation (what you can't see under the water), where one centimetre of extra under keel clearance could mean 130 tonnes of extra cargo or, if you get it wrong, a touch-bottom incident!

"This system allows large ships to bring more cargo in and out of ports and to do so safely because it mathematically predicts how much under keel clearance they have as they come down the channels," Dr O'Brien said.

"It is so accurate that, under extreme weather conditions, a 250,000 tonne carrier



to the seabed."

technology This is already on its way to innovative DUKC system, becoming а safety implementation at Queensland's Hay Point Australian ports and is also coal terminal in 1993. This in Europe and NZ. Almost Australian all of the iron ore and most continues to be further of the coal exported from developed entirely in-house Australia are shipped out by a team of more than 30 under DUKC) advice.

research, Dr O'Brien has engineer and OMC's Chief been intrigued by waves, Executive Officer. This currents, ship motions and team develops and installs the challenges of creating new systems, as well as a numerical method of modelling them. While 24/7, from its Melbourne lecturing at Melbourne head office. OMC also has he University, contacted by the then British Phosphate Commissioners to work on solutions for Dr O'Brien, whose for mooring the large family-owned firm has phosphate ships in Nauru's also just recently signed a particularly deep port (in contract with the Federal the Pacific Ocean north of Government's Australian the Solomon Islands) and Maritime Safety Authority also for Christmas Island (AMSA) for its DUKC (2600km north west of system to be installed in Perth). Realising there was the international waters of a niche business market, Torres Strait to enhance he left academia after a shipping safety. distinguished 22-year career Dr O'Brien said OMC

(which included sabbaticals clients at such as MIT) to establish installing DUKC systems for OMC International (OMC) safety reasons. For example,

within a metre's clearance problems in the maritime industry. More research led to his standard which was first installed in technology staff, led by Dr O'Brien and From the early stages of his his son Peter, a maritime supporting existing systems

was offices in Perth, the UK and South America. This is an exciting time

had become overseas institutions increasingly interested in

Corporation (PoMC) chose He will soon be in the air, one of the most challenging waters for ship navigation to be found anywhere on earth. Recently attracting huge media attention, the Chinese vessel Xin Yan Tai (the biggest container ship to berth in Australia) safely entered Port Phillip Bay under DUKC advice to dock in Melbourne to load and unload some 3000 containers.

Interestingly, back in 2004, New Zealand's Marsden Point installed DUKC purely on safety grounds after two super tankers were grounded within three months of each other, in the previous year, in the channel leading to New Zealand's only oil refinery. It was later shown that a DUKC system would have prevented both these near environmental disasters because the system would have advised that these sailings not take place on those days due to inadequate under keel clearance.

Dr O'Brien will spend today at home celebrating his OAM with his extended family. And conversation around the O'Brien family table is always guaranteed to be interesting - Terry and his wife Pauline, who has a Masters in Educational Psychology, are parents to three medical specialists, a barrister, an engineer and a neuropsychologist. Terence Eldest son

(Professor O'Brien) Department of Medicine. RMH, is a Neurologist and Head of Medicine at Melbourne University: Daniel is an Infectious Diseases Specialist and has devoted many years to Médecins Sans Frontières (Doctors Without Borders) particularly focusing on HIV programs in Middle Africa; David is a Barrister; Peter is an Engineer and OMC International's Chief Executive Officer; daughter Dr Catherine Meade is a and Neuropsychologist Matthew is a Paediatric Registrar.

Family celebrations and the occasional game of golf keep Dr O'Brien grounded could negotiate a channel in 1987 to solve practical the Port of Melbourne but literally never for long!

to install a DUKC system pursuing his current role last year to help ensure as a world expert advising the safety of large vessels international bodies in the entering Port Phillip Heads, area of creating new world standards in ship navigation. His hobby is being in the air long enough to maintain his Frequent Flyer Platinum Status. With an OAM, life is still indeed looking up!

CITS **4**5 **TRAINING OPPORTUNITIES** Are you under 25 and looking to upgrade your skills? C.I.T.S. has places available in all courses at government subsidised rates. Please call our office to discuss all your

training needs. Are you an employer and looking to up-skill your workforce? C.I.T.S. can assist employers in the Transport & Civil Construction industries in accessing funding for workforce development. Please call our office and speak with Kerri to discuss your training needs. For all your Car, Truck, Forklift, Equipment & Crane training needs ... Call C.I.T.S. NOW! 1800 633 500

www.citstraining.com.au



FARM IMPROVEMENT GRANT

Applications close 30 June 2010

Grants of up to \$1000 are available to eligible farmers to invest in farm improvements.

This grant will fund half of a farm improvement up to \$1000, so if the cost of installing new water troughs totals \$1800, a \$900 grant is available.

Grants are available to farmers who have received Exceptional Circumstances Relief Payments from Centrelink between 22 October 2009 and 30 June 2010.

Applicants must check eligible improvements and receive grant approval prior to purchase.

This program is part of the Victorian Government's \$47 million drought package for 2009-10.

For information and to apply contact Rural Finance on (03) 5448 2600 or visit www.ruralfinance.com.au



IF HE DOESN'T SHOW YOU H LICENCE, SHOW HIM THE DOOR.

ALWAYS USE A LICENSED OR REGISTERED PLUMBER.

Visit pic.vic.gov.au for more information.



