



# The Log

Newsletter of the Melbourne Branch of the Company of Master Mariners of Australia

**March/April 2013**

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## Master

Her Excellency Ms Quentin Bryce,  
Governor General of the  
Commonwealth of Australia



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## From the Branch Master

It's been a very busy month for me, and for CMMA, with company business being at the forefront of a full schedule.

The recent congress in Melbourne was very successful – perhaps not financially, but as a strong and relevant reminder to the industry that master mariners as a group have something important to say, and are making the effort to say it. A full review of proceedings can be found further on in this newsletter.

The congress coincided with the CMMA AGM, which consisted of a full day of robust discussion, budget-balancing and future planning. Joanna attended as the sole observer, and came away with the task of editing the Master Mariner magazine as well as this Log, so Melbourne is continuing to step up to the mark, as it should as the second largest CMMA branch.

The Federal Court is budgeting for a loss of approximately \$8000 this year. There are a number of reasons for this, which I will present in detail to the Melbourne Court at the next meeting and which, along with the court's reaction, will be presented in more detail in the next Log. I feel it is appropriate for me to fully brief the court first, but I will say now (as I have already advised the court of this bit) that the main point out of the meeting is that the federal levy will be increasing for the first time in over ten years. This does not necessarily mean that the CMMA subscription will go up – that is a decision for each local court to make, so it is only fair that the court discuss this further and their decision be presented to you along with the federal court's reasons for voting for the increased levy.

The levy increase will not net as much as this year's projected loss, but we are also working to streamline federal expenses and create new initiatives so every single CMMA



member gets the maximum benefit possible from the part of their subscription that goes into the federal coffers. A vast majority of members across the country voted for the constitutional changes which allow federal business to be run by the branch masters (with help from a secretary, treasurer and registrar). This reduces the size of the federal court, and ensures all voting court members have both the federal interests and that of their branch equally at heart. This should eliminate some inherent tensions which existed from time-to-time as a result of the last federal structure.

The next step for the new federal court is to implement some of the new ideas (which are not going to cost money) and see how they work. Concurrently we intend to do more research within the company to see just what members want, need and expect, before looking at the CMMA structure further. However there was a general acceptance at the meeting that the way forward is one step at a time, and that relevancy does not have to come at the cost of the social/camaraderie side of CMMA, which holds the most interest for some members.

Finally I supported, with all court members, the appointment of Sydney Branch Master Ted Van Bronswijk as the new Federal Master.



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## News

### CMMA introduces new federal structure and new Federal Master

After three years, Freemantle Harbour Master Allan Gray passed the Federal Master baton on to Sydney Branch Master Ted Van Bronswijk at the end of the recent CMMA Congress in Melbourne.

Allan will stay involved in federal court matters by developing social media initiatives, including the facebook page and website. He will work closely with Joanna Carson on improving the content and relevance of the Master Mariner magazine, and improving communication within CMMA and between CMMA and the industry and policy makers.

Ted was a deep-sea captain for 18 years and has also been a captain for Svitzer, being involved in some interesting towage projects, including the towing of HMS Nottingham after a serious grounding. He is currently director and partner of Capricorn Coast Marine, which operates the support vessel Gatcombe Endeavour.

The new Federal Court consists of:

#### Voting Branch Masters:

Capt Ted van Bronswijk, Sydney  
Capt David Shennan, Melbourne  
Capt Iain Steverson, Newcastle  
Capt Bob Westley, Western Australia  
Capt Ian Fraser, South Australia  
Capt Kasper Kuiper, Queensland

#### Office holders:

Capt Frank Kalaveld, Secretary (new life member)  
Capt Simon Walker, Treasurer (short term)  
Capt Wim van Alebeek, Registrar



New Federal Master Ted Van Bronswijk addresses the attendees of the CMMA congress in Melbourne

### We bought a plank!

It's not a Jeep, as the advert goes, but buying a plank is far more 'cool' in our book. Melbourne Branch has supported the Alma Doepel's latest restoration fundraising drive by purchasing a plank for \$500. A similar amount has been donated on your behalf towards restoration of the Wattle.

Meanwhile Alma Doepel has come home to Shed 2, Docklands, so go along and have a look at her soon.



Photo via Alma Doepel Chronicles



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# News

## CMMA helps Maltese Community celebrate a well-earned George Cross

"To honour her brave people I award the George Cross to the Island Fortress of Malta to bear witness to a heroism and devotion that will long be famous in history."  
**George R.I.**



The sound of the Air Force band rang around the Melbourne War Memorial parade ground on Sunday, March 14 in honour of the city's Maltese community.

The annual celebration of the island nation's George Cross, of which they are rightly proud, was a heart-warming affair for the regular and cadet members of the air force, army and navy, the Maltese community and other

specially-invited supporters, which included diplomats from the UK, Malta and Australia, and the Company of Master Mariners.

The celebration is held at the Maltese Shelter of Peace, across the road from the War Memorial, and is always well attended – attracting a lot of onlookers in the form of weekend joggers and dog-walkers! It is a tradition at these events for any attending CMMA members to wander up to the nearby botanical gardens for a lazy lunch afterwards. This time Joanna and I missed out on our lunch for lack of CMMA friends, so we would love to see more of you attend the similar ceremony later in the year, which is held to remember Operation Pedestal, and at which CMMA has a greater part in proceedings.



**We love to be liked... link up with us on our Facebook page**

Check CMMA out on Facebook. You just need to 'like' the Facebook page and any news will pop up on your own facebook profile page. If you've not yet explored the world of Facebook, ask your grandkids to set up a profile for you. It will help us keep in touch with you and gives you the ability to give instant feedback. In a future edition of The Log we'll run a tutorial on our Facebook and internet forums and other online features.



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## Events



### April CMMA dinner (in May)

**Place:** CQ, 113 Queen St, Melbourne

**Time:** 18:00 for 18:30 hrs

**Cost:** \$40 members, \$50 non-members

**Comments:** This month's speaker is Don Whelan on being arrested in a foreign port. Note: The court meeting is held in the restaurant until 18:20, so guests arriving before this are invited to congregate at the bar.



to



### Biofueling Management Workshop

See last page of this newsletter for full details.



### Mother's Day High Tea at the Mission

**Place:** Mission to Seafarers, 717 Flinders St

**Time:** 11.30am and 1.30pm sittings

**Cost:** \$49 per adult, \$29 per child

**Comments:** Sweet and savoury delicacies, plus tea, coffee and sparkling wine. To book call Nicole on 0419 514 417 or email [marketing@missiontoseafarers.com.au](mailto:marketing@missiontoseafarers.com.au)

## Noticeboard

### Alma Doepel Open Day

Alma Doepel is back in the heart of Docklands and ready for an exciting new phase in her restoration. Visit this magnificent piece of our maritime history at an open day this **Sunday, April 28**, at Shed 2, Docklands.

Open from 10:00 to 17:00

### *Feel like dancing?*

The Institute of Chartered Shipbrokers is holding its annual Dinner Dance at CQ Functions (the same place we have our meetings) on May 3.

The event includes great food, drink, dancing and a guest speaker.

All the details you need are on <http://www.icsanz.com/australia/>



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## 2013 CMMA Congress

The second Company of Master Mariners Congress, run by Informa, was held earlier this month at The Rialto in Melbourne, in conjunction with the International Federation of Ship Master's Association (IFSMA)'s Annual General Assembly.

There were three keynote speakers and seven international speakers in total. The Secretary-General of IFSMA, John Dickie, discussed the changing role of the ship's master, followed by IALA Secretary-General Gary Prosser, who stressed the need to embrace the emergence of e-navigation. He also raised the need for mariners to be more aware of the state of the industry, and called for lessons to be learned from the aviation industry. This was a theme also picked up by David during his talk, which he will give again at May's dinner. While Federal Transport Minister the Hon Anthony Albanese could not be present, Andrew Wilson, deputy secretary of the federal department of infrastructure and



Transport attended on his behalf and described the government initiatives for revitalising the Australian maritime industry. One of his main messages was that mariners 'did not shout loudly enough' about their industry and were therefore too often forgotten. Over the next two days there followed a large number of relevant, interesting presentations covering topics such as e-navigation, vessel traffic services, incident and accident investigation issues, innovations in transshipment operations, seafarer recruitment and training, suicide amongst mariners, and many others. The content and delivery was of a high standard and the Melbourne Branch, as well as the congress organisers on the Federal Court, can rightfully be proud of the success of the congress.



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# Court minutes

## Court Meeting 27 March 2013 1630 hrs CQ Functions 113 Queen Street, Melbourne VIC 3000

**Attendees:** David Shennan (Master), Ian French, Treasurer, Alex Evered (Secretary), Nigel Porteous, Dick Francis.  
**Apologies:** Euan Crawford, Toby Shelton, John CARROLL, Peter Bosman (Registrar), Francis Castellino, Joanna Carson (editor).

### Minutes of Previous Meeting

The minutes of previous meeting were confirmed as true and correct.

*Proposed: Nigel Porteous. Seconded: Dick Francis.*

### Matters Arising

#### Proxies for Constitutional Vote at the Melbourne AGM

Alex advised that 13 proxies had been received and passed on to David Shennan for the vote to be held at the Melbourne Branch AGM on 27 March 2013. A full list had been provided to the Branch Master.

There were no matters arising that are not covered elsewhere in the Agenda.

### Secretary's Report

#### Readings and Applications

Alex reported that there were the following applications:

- David John Fleay, Master 'Pacific Vixen', Ordinary, WA

Alex reported the status of the other applications as:

- Jordan Low, Incitec Pivot, Associate Member, Melbourne – awaiting endorsements from various branches
- Glenn Santos, PoMC, Ordinary, Melbourne – awaiting endorsements from various branches
- Gary Wilson, PoMC, Ordinary, Melbourne – awaiting endorsements from various branches
- Stephen D'Souza, PoMC, Ordinary, Melbourne – awaiting endorsements from various branches
- Peter Hay, Ordinary, Newcastle (rejoining) – awaiting endorsements from various branches
- Bill Bailey, Ordinary, QLD – awaiting endorsements from various branches
- Egil Hansen, Ordinary, SA – awaiting ratification from the Federal Exec'.
- Greg Chaffy, Ordinary, WA – awaiting endorsements from various branches
- Peter Aplin, Ordinary, WA - awaiting ratification from the Federal Exec'.
- Burjis Wadia, Ordinary, WA – awaiting endoresements from various branches

### Upcoming Events

#### 2013

- 28 April – Alma Doepel Open Day
- 2 May – Branch dinner & speaker
- 3 May – Institute of Chartered Shipbrokers Dinner Dance (more details to come)
- 14 July – Sea Sunday Appeal, MTS (Date to be Confirmed)
- August - Operation Pedestal – date to be confirmed.
- 3 September – Merchant Navy Day
- September 2013 – Joint CMMA and MLAANZ Function – MLC 2006, AMSA (Date to be confirmed)
- October – Seafarers Service followed by the Tim Muir Lunch (Date to be confirmed)
- 3 October – 27 October – ANL Art Prize and Exhibition.

### Speakers

Nigel suggested we approach Warwick Norman.

Dick Frances suggested Don Whelan in relation to an

unpleasant experience with the authorities in Singapore. David agreed to speak on Port Resource Management for May (he will be presenting this at the CoMMA Congress).

There is considerable variance between the airline industry and the maritime industry in relation to safety standards.

David suggested that VTS Determination might be a good subject and comes into force in July 2013. A draft Marine Order is expected in April. David advised that Ralph Kenyon was not made CEO at the Port of Hastings. The CEO is former Australian Defence Force Commander, Lieutenant Colonel (Ret.) Mike Lean. Accordingly, it might be appropriate to ask Mike Lean to speak.

Nigel also suggested the new HMAS Cerberus Commanding Officer Capt. Katherine Richards might make a good speaker.

Suggested speakers for future meetings:

- Ro Ros for Australia – Toby Shelton – Dale Emmerton, TT Line
- Neil Trainer (or other) – AMSA - on VTS marine order.
- Frank Cronin, Naval Historical Society
- Tabatha Pettitt, Economic Port Regulator and Licensing of Ports. (Euan to Follow up)
- AMSA – MLC 2006 – Wayne Cooper / Tim King
- Bob Iverson – Beyond Blue etc.



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- Ro Ros for Australia – Toby Shelton – Dale Emmerton, TT Line
- John Francis – Pasha Bulker and The Port Authority
- Ian Thompson – Sinking of the Noongah
- Ralph Kenyon/Mike Lean, Port of Hastings
- AMSA rep – changes in Navigation Act 2012 – Francis to contact
- Dan Whelan - CoMMA member - on being arrested in Singapore for accidental non-compliance with regulations. Dick to contact
- Developers of a new coal berth at Barry's Beach - Francis to contact

### Correspondence

David Wharington: Alex advised that David had passed various emails to her regarding the Alma Doepel. Details to go in the Log and to be passed to Members.

Partrick Evelegh, Assistant Sec, WA: Alex advised that Capt. Evelegh has proposed that CoMMA confer a Life Membership on Capt. Frank Kaleveld for services to the Company at the CoMMA AGM in April. Frank's services and contributions to the Company include acting as the Federal Secretary, two terms as WA Branch Master and WA Hon. Editor for a number of years. David confirmed that all the Branch Masters had agreed to this in principle and it was expected that this would be formalised at the AGM.

Joanna Carson: Alex advised that Joanna had enquired if the entire copy of the Branch Court Minutes could be placed in the Log. After discussion it was felt that an abbreviated version in the Log was acceptable as the full minutes were available on the website. There was some discussion that two minutes should be recorded, one for the General Meeting of the Members and one for the Branch Court Meeting. However, over recent years the court had decided to publish only one set of minutes, those of the Branch Court meeting. All Members are entitled, if they so wish, to attend as an observer any of the Branch Court meetings. Copies of the full minutes from the Branch Court meeting are available at any time to the members and an abbreviated version containing the most salient points were published in The Log. The court agreed that this process allowed for full and transparent disclosure to the branch members of the work undertaken by the court. Accordingly, it was agreed that the process of publishing an abbreviated version of the Branch Court minutes in The Log would continue. David to mention in the Log. Alex to ensure that the Melbourne Branch Page is up to date on the Website.

Ian advised that he had received a letter from David Keyes resigning from the Company. Alex to write to David.

### The Log

Alex advised that there had been good feedback on The Log since Joanna had taken over as Hon Editor. The Court

wished to thank Joanna for her hard work that was very much appreciated

### The Branch AGM and Changes to the Branch Court

The Branch AGM is to be held on Wednesday 27 March 2013 and David will outline the proposed changes to the constitution that will require the Members to vote on prior to the Federal AGM in April.

In relation to the membership of the Melbourne Branch Court Dick Francis advised that he would not be standing for re-election at the Branch AGM. Patrick O'Sullivan advised he would not be standing for re-election as Deputy Branch Master, but was prepared to remain on the Court as a Sea-Going Warden. Toby Shelton also advised that he wished to stand down from the Court. Nominations will also be called from the 'floor'. Nominations so far received are:

- David Shennan, Branch Master
- Francis Castellino, Deputy Branch Master
- Alexandra Evered, Secretary
- Ian French, Treasurer
- Peter Bosman, Registrar
- Joanna Carson, Editor of the Log
- John Carroll, Assistant Warden
- Nigel Porteous, Assistant Warden
- Patrick O'Sullivan, Assistant Warden

Bill Korevaar has kindly agreed to remain as Auditor for the Melbourne Branch Accounts.

David Shennan requested that the Court Members give a vote of thanks to Dick Francis for all his assistance and hard work on the Court and to the Melbourne Branch of CoMMA. Dick's dedication to CoMMA over the years has been much valued and we will miss him considerably on the Court. Likewise, since Euan Crawford and Toby Shelton were not standing for reelection, the Court also wished to extend their heartfelt gratitude to both for their services. It is important to note that Court Members are volunteers who generously donate their time and experience to CoMMA for the greater good of the Company and their services should not be underestimated if the survival of the Company and its relevance in the industry is to continue and to grow.

### The Boulton Lecture

Alex enquired if the Boulton Lecture was going ahead. The Federal Master has suggested it should be QLD. But at present it is not on the Congress week program. So, it is unlikely that Melbourne will be required to host this event.

### The Outstanding Achievement Award

Alex advised that nominations should be called for shortly. The Court suggested Stephen Bradford for his efforts to the Port of Melbourne and Seafarers Welfare. Nigel also mentioned John Lines.



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### The Propeller Club

Alex had spoken with MLAANZ about ideas for a 'one stop shop' events website for the Maritime Industry. Alex will get a basic quote for a website. Alex to do.

### Treasurer's Report

Ian confirmed that a donation of \$200 had been presented to the Mission to Seafarers on behalf of John Turnbull. As a result, John has kindly agreed to allow CMMA to use excerpts from his book, A Brief Look Back in the CMMA anniversary book. Otherwise, the treasurer reported as follows:

#### Membership

Membership currently stands at:

Ex Officio 00

Life Members 03

Honorary Members 01

Retired Members 37

Ordinary Members 67

Associate Members 15

#### Total 123

Ian confirmed that about 70 Members had remitted their Membership Fees.

#### Finances

Cheque Account \$ 17,589

Term Deposit \$ 15,566

It is noted that the Federal Levy is due in June. Ian advised that the Branch had made considerable savings from last year, largely on items such as the Log and postage as a number of items were now being generously 'supported' by various members/organisations. Ian advised that there were also still about 20 Members to remit their annual fees. David advised that he planned to put a questionnaire out to the Members to see what the Membership would like to be seen done with some of our reserves.

Ian advised that with regard to The Log, we are currently very fortunate that one member is currently sending out the mail copies and again this a considerable saving for the Branch.

Ian advised that he had received a letter from the Mission to Seafarers thanking CoMMA for the generous donation recently made of A\$200 (this relates to John Turnbull's publication). Alex to send a copy to John Turnbull.

David asked if nearer the time the Branch could consider a slight increase on the budget for this year's Christmas Party. After turning pale, the Treasurer conceded that this could be put on the agenda for later in the year.

Alex advised that she had a number of Certificates sitting in her office for members who had yet to attend a meeting.

Alex suggested that since we had some funds available, these should be sent out in a "clip frame" along with a tie and pin. It was agreed that Alex would price this up. Alex to do.

### Registrar's Report

In the absence of Peter Bosman, David Shennan reported that Frank Kaleveld required a copy of the CVs for the 3 new members applying for membership of the Melbourne Branch.

There were no other matters to report.

### Branch Master's Report

#### CoMMA / IFSMA Conference.

David advised that there had been more exchanges regarding the congress, however, numbers to date were still slow and there were some concerns regarding the budget and costs incurred for CoMMA. David advised that the new transport Minister David Hodggett, MP had agreed to speak at the dinner. However, the PoMC will not be doing a question and answer session. At this stage, and depending upon final numbers, it was hoped that the Company should still make around a small sum out of the Congress.

#### Constitutional Changes

David advised that the Melbourne proposals had been accepted by a unanimous vote at the Federal Court Meeting. The formal vote will take place at the Melbourne Branch AGM on 27 March 2013.

#### General Business

There was no other business to report.

### Any Other Business

#### The Alma Doepel

David advised there had been a new fundraising campaign by the Alma Doepel called 'Buy a plank for Alma'. Each plank has an estimated cost of A\$500. A plank donation will see your name recorded and displayed on Alma's Honour Board for posterity.

Dick Francis also requested donations for the 'Wattle'.

It was agreed that the Branch would donate a plank to the Alma and A\$500 to the Wattle.

#### The Maltese Australian Association (George Cross Award Day) 2013 - 14 April 2013

David advised that he would be attending the ceremony at the Shrine of Remembrance and laying a wreath on behalf of CoMMA.

There was no other business to report

### Next Meeting – Branch AGM

24 April 2013, 4.30pm, CQ Functions, 113 Queen Street.\*

Meeting concluded at 6.20 PM.

**\*NOTE: The next meeting was subsequently rearranged for Wednesday 1**

**May due to the ANZAC holiday.** 27 March, 4.30pm, CQ Functions, 113 Queen Street.



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## AGM Report

The branch AGM was held in conjunction with the March dinner meeting. 19 members attended.

Several court members stood down, (see right), however all necessary court positions were filled, so there was no need to replace the three retirees with three new members.

Chris Noon was nominated and subsequently voted onto the court, along with Joanna Carson, who recently took over as honerary editor of The Log. The court now consists of:

David Shennan (branch master)

Francis Castellino (deputy branch master)

Alexandra Evered (secretary)

Ian French (treasurer)

Joanna Carson (honerary editor)

Patrick O'Sullivan (seagoing warden)

Nigel Porteous

John Carroll

Chris Noon

The other main order of business was the vote for the proposed constitutional change, with 35 votes for and none against.

Lastly, treasurer Ian French made his report. Our financial situation can be found in the Court Minutes section of this newsletter.

### With our greatest appreciation

On behalf of all Melbourne members and the Melbourne court, I would like to sincerely thank those members who are standing down this year for their efforts and support of CMMA and our branch. Serving on the court is an important job and without you volunteering your time and skills, we would not exist. A particular vote of thanks to Euan Crawford (immediate past branch master), and Dick Francis (previous honorary editor). Thank you also Toby Shelton, retiring court member. We wish you all well in your future endeavours and hope to see you around the traps and at CMMA events in the near future. – David.

## Speaker summary

Last month was the AGM. As an added treat, David did a further rundown on the constitutional changes and upcoming vote. Thanks to all who attended on the night, or sent in a proxy vote. The vote came out strongly in favour of the constitutional changes, which have secured the future of the Company. Thank you for making the effort to vote.

Because that is now history, there is no need to summarise it in this newsletter. For anyone who feels too disappointed, David will be at the rostrum again next month, where he will present

the paper he gave at the CMMA congress, which was mainly on port resource management, but was peppered with a few serves about the standards being set by the maritime industry.

This month's speaker is Melbourne member Captain Don Whelan, from Farstad Shipping. Capt Whelan's talk will be a no-doubt fascinating and eye-opening account of what it is like to face criminal charges in a foreign country – finding himself arrested and in handcuffs in Singapore. So what went so horribly wrong? To find out how this story ends, join us on May 1 at QC.



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## Member's Lounge



This is the place to escape to for a laugh, to share a memory or a good yarn, or perhaps an idea, opinion or even a gripe with your fellow members.

Not all members can attend meetings, so consider this your 'monthly catch-up on a page'.

Contributions are welcome... email [joanna@northandtrew.com](mailto:joanna@northandtrew.com) or phone me on 03 5250 6323

**Caption this!** 'Attennn... chun!' obviously meant something a little different to one Army cadet at the Maltese George Cross ceremony. There's a good prize in the offing for the best caption received by email or phone or at the next meeting, by May 10.



## Oldies but goodies!

The British Military writes OFRs (officer fitness reports). The following are actual excerpts taken from people's OFRs:

1. His men would follow him anywhere, but only out of curiosity.
2. I would not breed from this officer.
3. When he joined my ship, this officer was something of a granny; since then he has aged considerably.
4. He has carried out each and every one of his duties to his entire satisfaction.
5. He would be out of his depth in a car park puddle.
6. Technically sound, but socially impossible.
7. This officer reminds me very much of a gyroscope - always spinning around at a frantic pace, but not really going anywhere.



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# Industry Issues



Supported by:



## ANZPAC Workshop on Biofouling Management for Sustainable Shipping

Sunday 5 - Thursday 9 May 2013,  
Melbourne Conference & Exhibition Centre Melbourne, Australia

**John Lewis**  
ES Link Services Pty Ltd – Chair, Workshop Steering Group  
Email: [jlewis@eslinkservices.com.au](mailto:jlewis@eslinkservices.com.au)  
Website: <http://www.imarest.org/events>

Logo design by Eugene Georgiades, MPI NZ; Global shipping graphic by Trevor Gilbert, Asia Pacific Applied Science Associates

### Workshop Overview

Since the advent of seafaring, vessel biofouling has troubled mariners through its effects on speed, manoeuvrability, operability and durability. Today, in a world dependent on international shipping, biofouling is additionally recognised for its potential impact on the global environment by compounding CO<sub>2</sub> emissions from ships and facilitating the translocation of species. Addressing these risks has proven complex, due to the limitations of available preventative technology, and uncertainty regarding the environmental risks of management methods, such as the use of biocidal antifouling paints or uncontrolled in-water hull cleaning.

A workshop on biofouling management for modern shipping has been designed to bring together key stakeholders from Australia, New Zealand and across the Pacific with an interest in identifying, promoting and developing effective and practical biofouling management strategies. The overall aim of the workshop is to ensure shipping and other maritime industries in the region can continue to underpin trade, security and economic development with minimal environmental impact.

The 4 day workshop will be held on 6-9 May 2013 in Melbourne, Australia. The first two days, *Risks, Requirements & Regulations*, will address biofouling management for shipping in the present and near future. The third and fourth days will be a symposium, *The Science and Technology of Biofouling: From Bacteria to Barnacles*, on emerging scientific research on novel coatings and surfaces for biofouling prevention and control in the future.



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