



Marine Teachers Association of Queensland Inc.

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SALTWATER



No 52 Newsletter of the Marine Teachers Association of Queensland Inc.

December 2002

MARINE TEACHER WINS STATE SCHOLARSHIP

Education Minister Anna Bligh presented the Premier's Smart State Teacher Excellence Scholarships and the Westfield Premier's Education Scholarships worth \$24,000 last month in a gala function at the Hilton Resort.

The scholarship winners are excellent ambassadors for their profession being described by Minister Bligh as "the best of the best".

The State Government, through its Science - Smart State initiative wants to set "new directions for science education in Queensland".

Simone Baker from Holy Spirit at Mackay was one of 4 winners in the Westfield Category and was inspired to enter from the Junior Marine Teachers Workshop at Hervey Bay. Holy Spirit is one of the schools trialling the proposed Junior Marine Syllabus that is going to be submitted to QSA at the start of 2003 (see page 4)

Simone is getting her travel details together and with the help of Mesa members who exchanged with USA - California, intends to visit schools and marine centres doing marine science programs to pick up new activities for the Oceanography, Marine Biology and Sustainable Use sections of the senior syllabus and general marine activities for the Junior Syllabus. (You may not realise it but many of the activities we now use in our classrooms came from a similar visit in 1986 from Hawaii and USA.)

Simone took over as assistant MTAQ publicity officer and has started a email network which she operates from:

ANDSIMDIVE@bigpond.com (see page 2)

Ms Bligh said the Premiers Smart State Teacher Excellence Scholarships and the Westfield Premier's's Education Scholarships would be presented for the next five years and that they are new initiatives to recognise excellence within the teaching profession.

I'm sure you all wish Simone the best with her scholarship and if any of you can help with ideas, she won't mind you dropping her an email at the above address



Westfield Premier's Education Scholarship winner Simone Baker (Assistant MTAQ Media Officer) and Education Minister Anna Bligh

MERRY CHRISTMAS (AT LAST)



Hope you all have a great break sailing, fishing, house boating, surfing in our clean and beautiful oceans.

Thanks to all those who helped MTAQ have another great year.

The conference was great Gwen and Cairns branch and all those who ran marine Olympics and had branch dinners and ran workshops, you really deserve the thanks from all our members - especially the new ones.

For those who are retiring (Len Cousins and Dan Stewart from the South Coast Branch and Geoff Jensen Brisbane South Branch and any others - we are hoping to have a retirement-like dinner for those who can make it when QSA runs to next conference in Brisbane or at Mackay). Let your branch reps know so I can do some organising - we'll just book a venue and let it flow from there.

If you are going on long service - lucky ducks, have a great time and for the rest, happy Christmas.

FOR SALE

Clontarf has a 5.4m avon rigid inflatable for sale. 2C survey for 8 persons, all safety equipment on good road trailer which has new springs, axial, and wheels. The inflatable sides are only 4 years old and it has not been used much in that time. Recent inspection by DoT found no problems.

Contact: Graham Rogers at Clontarf Beach SHS. 34804732, or home 38800098 or e-mail <mailto:mgr Rogers@otpusnet.com.au>mgr Rogers@otpusnet.com.au.

Thank you Graham Rogers

AUSTRALIAN MARINE EDUCATION ALLIANCE (AMEA) NEWS

The Australian Marine Education Alliance (AMEA) is an umbrella alliance of organisations, industries and practitioners who use education as a tool for the wise use of the marine and coastal environment. Participation in AMEA is open to all involved in any facet of marine and coastal environmental education. AMEA is a network that is gaining rapid momentum. The primary role of AMEA is to link organisations, industries and practitioners, so as to present a coordinated and unified voice for marine & coastal education in Australia. Such a coordinated approach will assist all organisations in working more effectively towards our common goal of protection of the marine & coastal environment for future generations.

To find out more about AMEA please contact:

Anna Cooke

Executive Officer

Australian Marine Education Alliance (AMEA)

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E- <mailto:annacook@cdi.com.au>annacook@cdi.com.au



GREAT NEW RESOURCES

GEOSCIENCES

It is so nice to meet helpful people and this was my experience last week in searching for photos on marine trenches for the new book. One thing led to another and got emailed some great images but then found the order form on their web site and bought the book attached.

I never knew that the continental shelf, its slope and the geological history was so important in that Australia needs to get its mapping up to date so we can claim our own land under UNCLOS - United Nations convention on the law of the sea.

The book has lots of great IP&R exercises. But wait - there's more. I also bought an activity book on coasts which has a CD and guess what Greg Lynch, its got the photos you wanted for your case study on the Tweed River great aerials comparing 1947 and 1966.

Also there is a tsunami activity book with exercises on how long it would take a tsunami to hit Queensland!! and a great book on weathering and erosion which gives simple illustrations on how many coastal features formed.

I've invited Greg McNamara or a rep from Geosciences to the Mackay conference to speak on the law of the sea and run some workshops on what geoscientists are doing -

Geoscience are at:

www.agso.gov.au

or call Greg McNamara on 02 6249 9111 for a catalogue

NATIONAL OCEANS OFFICE

Those of you who were lucky enough to get to the QSA Marine Studies conference in Oct got a free video and sample bag from Ocean Australia showing some amazing footage of Australia underwater.

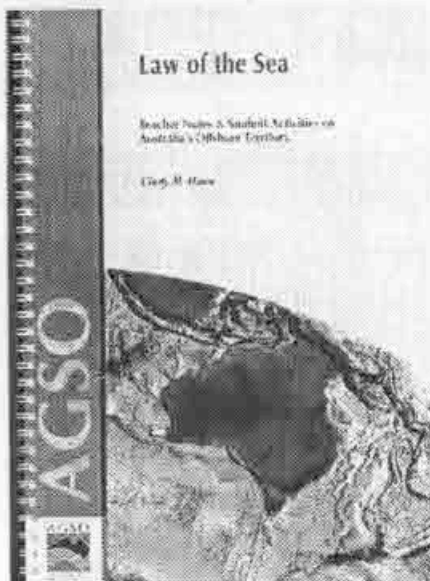
This outlined the work of our National Oceans Office and had a CD on Oceans Policy. Now Mike Halpin uses this with his class as an exercise where students have to make a presentation on our Oceans Policy as an assessment item in power point.

The web site:

www.oceans.gov.au/

or Katrina Haig, Public Affairs, National Oceans Office

GPO Box 2139, Hobart Tas 7001. Direct line is 03 6221 5036



PART B: SEDIMENT THICKNESS

The last method of determining the outer limit of the continental margin is to work out the depth of sediment beneath the foot of slope. Few need to find the point where the sediment thickness is 1% of the distance back to the foot of slope.

Example - sediment is 10 km thick a distance of 20 km from the foot of slope

$$\begin{aligned} \% \text{ sediment thickness} &= \frac{\text{sediment thickness}}{\text{distance to FOS}} \\ &= \frac{10 \text{ km}}{20 \text{ km}} \\ &= 0.5 = 5\% \end{aligned}$$

Determine the sediment thickness is 50% of the 20 km distance back to foot of slope.

Seismic data was obtained for the same strip of sea floor used in the preliminary survey and used to work out the depth of the sediment beneath the sea floor. The thickness of the sediment is recorded in the following table:

On the same graph, mark in the approximate thickness of the sediment layer beneath the sea floor at the following four points that are beyond the foot of slope:

TABLE 2: SEDIMENT THICKNESS CALCULATION

Location	distance from foot of slope (km)	sediment thickness (km)	% sediment thickness
J	40	1.5	
K	80	0.8	
L	120	0.5	
M	160	0.1	

A. Fill in the last column in Table 2 using the formula above.

B. On your graph mark in and clearly label the points where the sediment thickness is 1% of the distance back to the foot of slope.

C. Compare all of the limit lines marked on your graph.

Determine where the legal outer limit of the continental margin under UNCLOS should be located and clearly mark it on your graph. Give reasons why you chose this limit line (reasons on paper for more space).

BIODIVERSITY MONTH — HOW YOU CAN GET INVOLVED!

Biodiversity Month is celebrated nationally each year to promote local biodiversity, threatened species and their habitats. Every school is encouraged to participate in this campaign in some way.

The Great Barrier Reef Marine Park Authority has developed a new education resource titled '*Biodiversity Matters!*' to support Biodiversity Month and learning programs in all primary schools.

By contacting the Public Information Unit within the Great Barrier Reef Marine Park Authority, schools can access a free copy of this new resource.

'*Biodiversity Matters!*' encourages everyone in a school community to consider how we all can act responsibly for local reef biodiversity, threatened marine species and their habitats.

Teachers and students can use the following ideas to plan, publicise, stimulate, support and inspire biodiversity month festivities and activities.

- Visit the GBRMPA website www.gbrmpa.gov.au Enter 'biodiversity' in the search field and spend some time looking at the links to discover how the Authority protects reef biodiversity. Research species that are threatened in the World Heritage Area, identify threats to their survival, and discover how the Authority works collaboratively with others to conserve and protect a variety of species.
- Organise a display in the school or local library. Consider reef biodiversity, their habitats and the reasons why they are threatened. Showcase how communities can help to protect them.
- Make badges that display slogans concerned with preserving and conserving specific marine animals.
- Create a calendar illustrated with our reef's biodiversity.
- Dramatise and choreograph a performance for theatre, mime, puppet theatre or dance that highlights the plight of a threatened marine species. Present the performance publicly. Interview members of the audience to find out what they thought the important messages of the performance were.
- Access copies of '*Biodiversity Matters!*' a resource and activity package for schools containing activities that support all key learning areas.

For enquiries, or to order a copy of the resource '*Biodiversity Matters!*' please contact:

The Public Information Unit

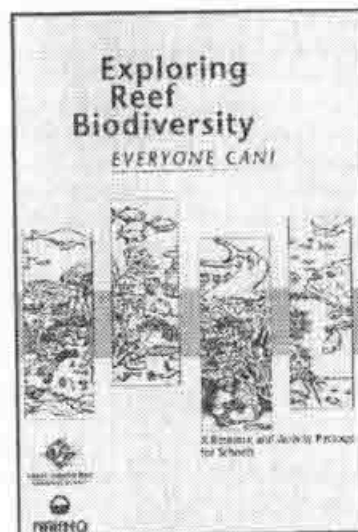
Great Barrier Reef Marine Park Authority

PO Box 1379

Townsville QLD 4810

Fax: (07) 4750 0700

Email: info@gbrmpa.gov.au



MARINE STUDIES FIELD TRIPS

NEW BOAT AVAILABLE SE QUEENSLAND

A new series of field trips is being introduced, to be run on the vessel *Murphy Star*, under the guidance of owner skipper Peter Holt. The vessel is a twin screw timber motor cruiser with a survey for 22 day time and 12 overnight.

The core is a three day marine experience to Tangalooma, with half the party being camped ashore on the first night and rotating the second night. All meals, tentage and permits are supplied, while during the day boat handling skills, navigation, seamanship and snorkelling can be undertaken.

Other trips can be one or two days, to Amity Point or the One Mile or to any other destination. More information can be obtained by phoning Peter on 07 32064490 or 0413 587 667.



MARINE EDUCATORS MOVE ON

Best wishes from us all to long term members Jan Taylor (Aquacamps) and Kimberley Halter (NAUI) who have moved on with their lives.

Kimberley who decided on a long and well deserved holiday is now is back and running a registered training organisation (include marine) - her own little TAFE. Interested in Marine Voc Ed?? Want to work with Kimberley (07) 4659 5062? Snorkelling, SCUBA, Small Boating Surfing and we look forward to next years conference when she can tell us all about it.

Jan has now moved permanently to Victoria where she is helping partner David Waites run Aquacamps;

New owners of Amity Point Holiday Village - Bill Stubbs and Libbi Burns would like to welcome old and new customers to carry on the fine tradition that Jan established. Phone Number and address remains the same:

(07) 3409 7161

BIOL TEACHER WORKSHOP

Amity Point Holiday Village
2-3 Dec or 4-5th December

Cost \$35 all inclusive, Biol Trip with Bill Stevenson and some snorkelling.

Libbi Burns (07) 3409 7161



CONFERENCE INFORMATION



Contact: Bill Rankin: Mackay SHS 07 4957 9179

2003 CONFERENCE PROGRAM

Day 1, Wednesday 11/7/03, 12-2pm registration, 2-5 excursions, 7-late conference dinner

Day 2, Thursday 12/7/03, 9am AGM, 10-12 show and tell, best practice, 2-5pm excursions, 6pm sponsors trade display followed by informal seafood BBQ

Day 3, Friday 13/7/03, 6am depart for Whitsunday cruise, return by 7pm for free evening.

Day 4, Saturday 14/7/03, 9am networking best practices. 1pm excursions, informal evening

Day 5, Sunday 15/7/03, Minor program (beach study), 1pm close and travel home

CONFERENCE FEES include: sandwiches and coffee on arrival, conference dinner, excursions, Whitsunday cruise and buses to and fro, conference shirt, BBQ, lunches, morning and afternoon teas.

BASE RATE: \$200 ie no accommodation included.

Whitsunday Anglican School dorm style including breakfast; \$112 for 4 nights(\$28/n) ie \$312 for the conference.

Rover Holiday Units, fully self contained, twin share \$40/n/p, ie \$160/4n/p ie \$360 for the conference, OR fully self contained family rooms \$100/n, ie \$400/4n/family, ie \$600 for the conference.

Hope this helps with the school budgets.

Note: There have been problems with the cruise out of Mackay so an island cruise in the Whitsundays looks the go.

The program above is subject to change but gives schools enough information to start planning.



Ted Brambley

Explore secrets and magic of marine life

STEPPING into the Marine Environmental Field Study and Resource Centre at Hastings Point is taking a trip into another world.

Adorning the walls, floor and shelves are hundreds of specimens collected by marine biologist and teacher Ted Brambley over 30 years including huge pieces of brightly coloured coral, sharks, turtles, shells, sea urchins, bones, brains, starfish and seaweed.

But unlike your regular museum, here visitors can touch the exhibits and are encouraged to ask questions and undertake their own investigations about life amid the mangroves, rocky shore, Wallum heathland and sandunes.

Using video and microscope technology, they can take a close up view of live exhibits revealing the secrets and magic of the marine world.

The education centre, aimed at high school and late primary school students, has been a vision of Ted and his partner Kerrie Trees for many years and this week became official with an opening ceremony by Youth and Children's Affairs Minister, and Member for Richmond, Larry Anthony.

Its base at the Hastings Point Holiday Village gives the centre an added dimension by providing accommodation for visiting school groups from as far as Stanthorpe and Brisbane, and is a short walk away from the ecosystems within the museum.

After a day of snorkelling and searching, they can return to the study centre for closer research.

"The general objectives and aims of what Kerrie and I have in this park is based on years of cooting down here, running field trips, staying on the headland in tents with howling winds, storms and aborted trips," said Ted.

"This has enabled us to see a dream virtually come true."

He thanked park owners Alan and Sue McIntosh, park managers Cath and

By BELINDA LAVIS

Mark Stevens and 'background innovators' Les and Lyn Knight for their support in establishing the 'best kept secret on the North Coast'.

"Overall, what we have got here is a museum and field study centre designed to add a little bit of colour for students and add first-hand experience to what they learn in the archaic school room," said Ted.

Kerrie said the educational facility was almost complete but their next goal was to increase resources to provide more scientific testing and experiments.

They want to incorporate holding and touch tanks, on a catch and release basis, that will provide more chances to document, record and photograph the biodiversity in the local area.

"We can turn a 15-metre piece of rock into a two-hour expedition because what we can find on the rock is the most exciting thing," said Kerrie.

Kerrie and Ted, through their company Adventure Education, need financial assistance to take the centre to the next stage. They are looking for sponsors, donations or people to direct them to others who may be able to assist.

Ted said although the centre was only for study purposes and organised groups, they believed the whole community would benefit because it contributed to a future where both adults and children live their lives with a deeper appreciation and respect for nature that is touched by sense of wonder.

"Over 25 years, we could see development happening - which is fine, but somewhere the penny has to drop and we have to preserve some areas so people can see what it is like and not have to walk along somebody's fence to see the natural surroundings," he said.

For more details, call the Marine Environmental Field Study and Resource Centre on (02) 6676 3401.

BENOWA SHS LAUNCHES NEW VESSEL

Well done to AJ Presto, Shane Riley, Len Cousins and Year 12 Marine studies class on the launch of their new 5.3 metre RIB centre console with 90 hp outboard training vessel launch September.

The vessel was named the *Cyril Connell* in honour of the father of marine studies in Qld and launched by Bob Moffatt. Cyril worked tirelessly as Assistant Director Secondary Education on many marine projects and encouraged school principal seeking promotion at the time, to take up this new subject. Benowa certainly benefited from his leadership and carries on the fine tradition with quality marine education.



Proud new owners of the Benowa High training vessel - the *Cyril Connell*

SIMONES EMAIL LIST - ARE YOU ON IT?

Many of us are now on the E list which is a sort of chat line. We will still have hard copy news, but probably less frequent as electronics takes over. The list below is where we are at.

Simone is looking after the list and she is at ANDSIMDIVE@bigpond.com

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|--|--|---|
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MTAQ TO SUBMIT NEW SYLLABUS

A working party to investigate the possibility of submitting a Junior Marine Studies Syllabus from MTAQ met a few months ago at Hervey Bay. Committee members include Graham Rogers, Phil Smith, Karen Beutel, Simone Baker, Kelly Goodingham, Bob Moffatt and Tim Ryan. Since this meeting, Mark Snart, Manager of Syllabus Development and Accreditation QSA has met with Bob to discuss the protocol for the implementation. Plans for a one day workshop, in conjunction with the conference are developing.

NEW MARINE SCIENCE BOOK ON TRACK

Paula Moffatt from Wet Paper would like to say that the new Marine Science book (see flyer enclosed) is on track for delivery to school early February and will replace the old green bible which is now out of print.

MTAQ BRIDGING THE GAP CONFERENCE 03

See page 3 for more details

DATES

Wednesday 11 July Sunday 15 July 2003
Whitsunday Anglican College

MTAQ 02 - 03



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