

Perspectives on Capacity Building

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Capacity Building & Developments over Time

- **CCZ Megafauna logging:** TOML have trained 5 Tongans to date. Opportunity for other contractors to use this skill-set.
- **Management at sea:** Trained and promoted we believe the first female Polynesian Lead Scientist and then Chief Scientist. These were on cruises to the CCZ and in PNG waters.
- **At sea training:** ~16 Tongans plus 2 other developing country scientists funded to join deep sea exploration work in CCZ and Tongan waters (also roughly 20 others in PNG waters).



Left: Tonga Govt geologist on Tongan exploration cruise *Right:* Tonga Maritime Polytechnical Institute (TMPI) students at sea during exploration cruise in Tonga.

Some of our Capacity Building & Development over 10 Years

	ACTUAL SPENT ON NMT & TOML CAPACITY BUILDING PROGRAMMES, TOP\$											Total Spent
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	
TMPI, Ministry of Education & Training	5,863	23,258	4,050	4,242	6,685	78,872	-	5,900	3,000	-		131,870
EcoCARES: School Science Competition		10,000	2,100	11,950	8,500	10,000	5,027	6,506	2,100	-		56,183
Secondary School Science Textbook Prizes							5,160	4,884	4,871	5,270	5,047	25,232
Ministry of Health: Dental Section	20,000	20,000	19,954	20,000	19,730	14,679	18,558	10,035	-	-		142,955
Ministry of Health: Casualty and A&E		-	16,533	18,466	7,971	8,000	9,612	13,500	4,134	4,886		83,101
Ministry of Health: Ambulance Service			-	8,000	7,681	9,000	10,125	4,714	-	-		39,520
YiB & Eqpm for Educational Institutions				8,998	8,907	10,000	9,890	-	-	-		37,795
*Atenisi Foundation for Performing Arts	10,000											10,000
*Ministry of Health, Niu'ui Hospital		10,000										10,000
TOTALS	35,863	63,258	42,637	71,656	59,474	130,551	58,372	45,539	14,105	10,156	5,047	536,658

NB:

- * The Atenisi and Niu'ui projects were one-off projects
- The funding is evaluated during the annual budget process, therefore Nautilus cannot guarantee programmes will be funded every year.



Capacity Building Programme for TMPI – TOML/NMT donated the funds (T\$78k) in 2013 to build the Fire Fighting Simulator (FFS). Above photos shows the completed FFS being used by TMPI students for the first time in 2015.

Perspectives from two of our Lead Scientists

The mentored are now doing the mentoring

Paul Lahari



Christina Pomee





Perspectives: Paul Lahari

- **I personally benefited** from capacity building, and **I have over the years mentored** and trained Papua New Guineans in offshore exploration for SMS deposits. Three key outcomes I see:
 1. Companies recognising and promoting this concept in their business strategy or HR commitment is critically important. It **adds value and progress**.
 2. Capacity building of host country individuals has indirectly contributed to **Social acceptance** in the local community and the government
 3. Continuation of **capacity building from exploration to mining** promotes sustainable expertise in the longer term.
- **Without capacity building, there will be lack of support and progress** in nearly all levels of development, especially in these three areas
 1. Personal development
 2. Social acceptance in the community
 3. Government Support.



Perspectives: Christina Pomee

1. **Gender equality:** At home we often have the mindset that female is only capable of doing office work or just being the housewife at home. Capacity building enhances our opportunities by joining and even managing males.
2. **Confidence:** As a Lead Marine Scientist (TOML CCZ15 cruise), it built up my confidence in decision making As Chief Scientist (NUS PNG16 cruise), the level was much tougher. I realised that "**we don't grow when things are easy, we grow when we face challenges**". I am grateful in the company in believing in me.
3. **Good relationship with Government:** Through working with government observers and through other capacity building initiatives, we become partners not clients and help each other even in areas not to our immediate benefit.
4. **Network** with other developing nations: Having trainees on boat from Tonga and other developing countries builds up a good relationship with them. After the previous cruises we are friends and check in on each other. If we get the chance we will make the future ours.
5. **Opportunity:** Without even land based mining in Tonga we have no avenue to understand this industry which is important for raw materials worldwide. DSM has enable me to learn about minerals and environmental issues, especially in the deep sea. Clearly we want to be part of a sustainable future.

Exploitation = Sustainability

- “Give a person a fish and your feed them for a day. Teach a person to fish and they feed themselves for a lifetime”...
- Mining on land helps provide a better standard of living for many people in developing nations.
- Employment in mining and downstream industries is a path to opportunity for these people.
- This is recognized and we need to deliver on the all of principles of the law of the sea.

