



TIWAI POINTER

New Zealand Aluminium Smelters Limited

July to September 2013

Students on site

Maddy Furness and Lydia Ward, year 13 students from Southland Girls' High School (SGHS), have recently spent seven days on site as part of the annual educational partnership between the school and NZAS.

This is the sixth year of the partnership, which aims to encourage females into industry, particularly into engineering and science careers.

The partnership was set up in 2008 and 29 students have participated to date. At least twelve students have gone on to study engineering at university. Paul King from SGHS doubted this would have been the case if the partnership with NZAS was not in existence.

Maddy assisted with a cell autopsy in Reco while Lydia's project was on billet packaging integrity. Both girls presented their project findings on the final day.



(From left) Paul King (SGHS Head of Physics, Noreen Melvin (SGHS Deputy Principal), Maddy Furness, Lydia Ward & Gretta Stephens (NZAS GM)

Supporting our local Coastguard

NZAS has continued its support of Coastguard Bluff with Stew Hamilton handing over a cheque for \$10k in July. We are the naming rights sponsor of the coastguard's current rescue vessel, 'NZAS Rescue'.

Over the last nine years NZAS has donated a total of \$90k. We value our relationship with Coastguard Bluff very highly and appreciate the wonderful job their volunteers do, often in very difficult weather conditions. In the year ending 30 June 2013, Coastguard Bluff rescued 33 people from Foveaux Strait.

Some interesting facts'n'figures about Coastguard:

- 2,429 volunteers are currently involved with Coastguard throughout New Zealand (2,229 Search and Rescue (SAR) volunteers and 200 Shore Crew)
- 307,455 hours of volunteer time has been given to Coastguard by these search and rescue volunteers from July 2012 to June 2013
- In the period 1 July 2012 to 30 June 2013 Coastguard has been called for help 3,237 times – that's more than eight times a day!
- 7,088 people were rescued by Coastguard in the year 1 July 2012 to 30 June 2013



Stew Hamilton (left) is pictured with Andy Johnson, President of Coastguard Bluff (photo courtesy of Robyn Edie from the Southland Times)



PROUD TO SUPPORT OUR LOCAL COMMUNITY

Kakapo Supplementary Feeding Volunteers

Congratulations to Steve Moratti (Line 3), Wayne Cleaver (Power Supply), Donna Carter (Safety & Loss Prevention) and Alan Broomhall (Metal Products Maintenance).

They have been selected for this coming summer's kakapo supplementary feeding placements. Steve and Wayne will spend two weeks on Codfish Island, while Donna and Alan will head to Anchor Island.



(From left) Steve Moratti, Donna Carter, Wayne Cleaver & Alan Broomhall

Our People

Name: *Chris Campbell*

Position: *Process Leader, VDC*



How long have you worked at NZAS?

Approximately 8.5 years

What would you do if you won Lotto?

I would do a lot of travelling with friends and family, and share the wealth around

What is your favourite food?

A good roast lamb with lots of roast vegetables

What is your favourite tippie?

Bourbon & coke

What's the most outstanding memory of your school days?

Receiving a sports prize from Stu Wilson

Who would you like to be stranded on a desert island with and why?

I would like to be stranded with a genie who grants me lots of wishes!

Where's your favourite place visited in the world?

Hawaii

What's your biggest achievement in life so far?

Raising two boys

What would be the most memorable news bulletin you have seen/read?

Hearing on the news that my father had died in a plane crash with his mates ... his mates died but he didn't

What were your career aspirations when you were a child?

I wanted to be a motorcycle mechanic



Good morning!

Huge thanks to Scott Faithfull from South Port for sending us this stunning sunrise photo taken from Island Harbour looking towards the Tiwai wharf

Midlife refurbishment of Rectifier R31

Rectifiers are key Power Supply assets which convert and stabilise power from High Voltage 33kV AC to the high current DC used by the Reduction Lines. There are normally four Rectifiers supplying DC power to Line 3, and they can supply up to 58kA each.

The Line 3 Rectifiers were built in 1981 and have been operating for more than 30 years. In order to ensure ongoing reliability, the first of the Line 3 Rectifiers, R31, was refurbished, with most site works occurring over a six week period from late June to early August 2013. Painting was completed in early September.

The Rectifier was dismantled into three sections - the transformer, rectifier cubicles and the cooling water tower. The rectifiers and water tower were moved to separate workshops on site and refurbishment of the transformer was completed in situ. Once refurbishment of these parts was completed, the Rectifier was reassembled and tested.

This project involved all of Power Supply and 12 contracting companies, including the Original Equipment Manufacturer (Fuji). It took over 3,000 hours of work to complete the refurbishment and at its peak there were over 20 personnel working on various parts of the unit on site.

Much of the work was time critical and the flexibility of employees and contractors to make this happen was greatly appreciated.

Eric Gordon – Power Supply



Before and after shots

Sleepy time ...

It looks as though turning 65 was a little too much for Noel Carson from the Lab.

He is pictured here taking a snooze on the bus ride home recently.

Word on the street is that there is now a fifth Teletubby – called 'Dreamy Weemy'. Move over Tinky Winky, Dipsy, Laa-Laa and Po – it appears you now have competition!



A true hero ...

Did you know that we have a true hero in our midst at Tiwai? Jason Gough, a contractor from the Reduction Line Services team saved his friend's life after a fun weekend getaway almost turned to tragedy.

Jason, Chaise (Ross Ladbrook from Carbon Rodding's son) and another friend were at Piano Flat for a weekend of motorbike riding. They were riding down a hill on a rutted road when Chaise's front wheel dug into a rut, resulting in him going over the handlebars of his bike. The force of the wheel hitting the rut sent the bike around 1.5 metres up in the air. Unfortunately when the bike came back down, the front wheel/handle bars landed onto Chaise's hips and thighs, piercing his femoral artery.

Jason quickly realised that Chaise was critically injured and knew they had to act quickly. With no mobile phone coverage in the area, the other friend went to find help while Jason attended to Chaise's injuries. Jason has had no formal first aid training but realised that Chaise was losing a lot of blood very quickly. To stem the blood flow he knew needed to shut off the punctured artery, and to do this he pressed his fingers over the pierced artery inside Chaise's leg.

Chaise and Jason had to stay in this position and wait for four hours before help arrived on the scene. The other friend had come across a few houses but unfortunately no-one was home. When he eventually had success the rescue helicopter was called.

Towards the end of the four hour wait, Chaise was unsurprisingly very tired and starting to slip in and out of consciousness. Jason managed to keep him awake.

When the rescue helicopter finally arrived, the doctors on board could not believe that Chaise was still alive. This of course was down to Jason's heroic efforts.

Chaise was flown to Dunedin hospital where he was kept in a coma for three days. He then spent a month recovering in Southland Hospital.

When Chaise's partner Mel asked Jason how he knew what to do, his reply was, "I saw it on TV a few times." In true Southland understated fashion, when Chaise's family thanked Jason at the award ceremony, he said, "Anyone would have done it."

Stew Hamilton presented Jason with a plaque on behalf of NZAS to thank him for his truly heroic efforts. Congratulations Jason!



Pictured at the award ceremony (from left) are Jason's parents, Julie & Neil Gough, Jason Gough, Chaise Ladbrook, Mel Meffan, Chaise's parents, Josie & Ross Ladbrook, and Stew Hamilton

2013 NZAS Southland Science & Technology Fair

This year's NZAS Southland Science & Technology Fair was held in August at the Ascot Park Hotel. Over 350 Southland Year 5 to 13 students participated.

2013 marked the eleventh year that NZAS has been the major sponsor of the fair. One of the highlights for this year's 26 NZAS volunteers was interviewing the students on the first day of judging.

The Committee will be nominating two projects for consideration for the national event, 'Realise the Dream' which will be held in Wellington in November.

William Swan's project 'Chromesthesia' explored if people can see specific colour when listening to a piece of music and then went further to see if they could see the resulting secondary colour from combining two primary coloured pieces of music. William tightly controlled variables on this project and was also the composer of the pieces of music test subjects listened to. William is a Year 10 student at James Hargest College and is also an accomplished musician.

The other nomination is for David Jagoutz's project 'Hypothermia Safety – Snow Angel'. This project looked at the issue of people suffering from hypothermia in the outdoors and provided a novel early warning system to the rest of the party via a visual aid of a dropping body temperature on a helmet. David is a year 9 student at James Hargest College.



(From left) William Swan, Gretta Stephens & David Jagoutz pictured at the 2013 NZAS Southland Science & Technology Fair prize giving ceremony (photo courtesy of David Russell from Southern Exposures)

William and David (respectively) won the NZAS Premier Awards in Science and Technology, as well as many other prizes at the Fair.

In September NZAS announced that it will continue to be the major sponsor of the fair for the next three years. By the end of 2016, the smelter will have contributed more than \$80,000 towards science and technology in Southland. Under the new agreement, sponsorship has increased to \$7,000 per annum, up from \$6,000.

Samantha York, Chairperson of the NZAS Southland Science & Technology Fair Committee, said, "Obviously we are delighted to continue our long and fruitful partnership with NZAS. This sponsorship agreement provides certainty for the medium term future of the fair. The increased level of support from NZAS will be channelled into providing even bigger prizes for the 2014 fair."



Some of the 2013 NZAS Southland Science & Technology Fair Judges (photo courtesy of David Russell from Southern Exposures)

On fire!

Congratulations to Murray Allen (IPC) and NZAS employees Alan Sadlier, Peter Nicholson and Gary Taylor. They have completed their National Certificates in Fire Detection and Alarm Systems.

Alan gained Level 3 certification which means he can inspect and test fire detection and alarm systems. Murray, Peter and Gary have been awarded Level 4 certification. They can now install and maintain these systems.

The great thing for NZAS is that this group can now oversee the design of fire detection and alarm systems around site, as well as conduct fire alarm audits if required.



Rob Peterson is pictured presenting Murray Allen (far left), Alan Sadlier & Peter Nicholson with their certificates (Gary Taylor absent)

2013 Southland Environment Awards



Stew Hamilton (far right) is pictured with members of the South Catlins Environment & Development Trust at the 2013 Southland Environment Awards

Congratulations to the South Catlins Environment & Development Trust. This group was the winner of the NZAS-sponsored Community Groups section of the 2013 Environment Awards for the 'Curio Bay Living Forest' project.

The project included purchasing and fencing a block of remnant native bush, creating a track and linking it to the Petrified Forest and adjacent reserve. The next step of the project will be to install interpretive panels so that visitors can understand and appreciate what they are seeing. The group also has plans to build a bridge to enable visitors to walk to the new track from the beach.

Congratulations also to Otatara Pestbusters who received a highly commended award for their community initiative to trap pests on private property in Otatara to make the area safer for native birds.

Tiwai Social Club

Have you ever thought about joining the Tiwai Social Club?

The club usually holds two functions a year, plus provides a Christmas gift for any dependent children under the age of 14 years. It only costs \$8.67 per monthly pay to be a member, so what are you waiting for?

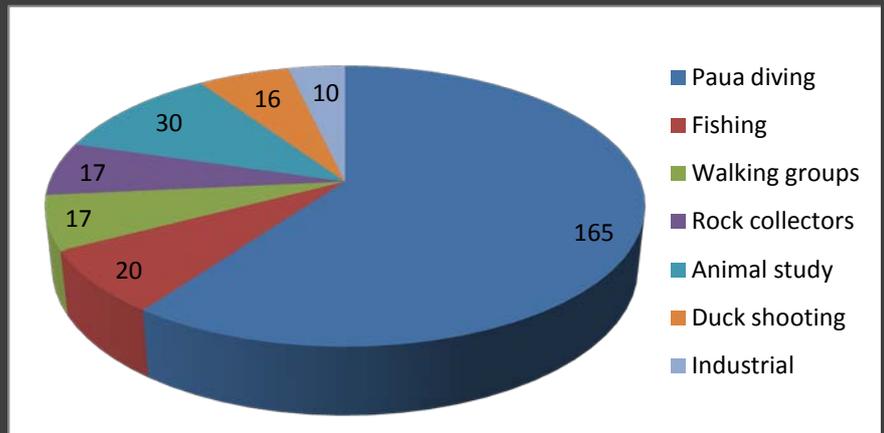
Contact John Malcolm (Operational Services) on x 5833 or via email for a membership application form.

Activities undertaken on Tiwai Peninsula

Did you know that the most popular activity undertaken on Tiwai Peninsula is paua diving?

Vivi Hitchcock from the Environmental Team looks after access to the peninsula and has tallied the number of people permitted access for the first half of this year.

A staggering 165 people have access to dive for paua. The next largest group is performing animal studies, including bird watching.



NZAS BBQs

A reminder that we have four BBQs remaining:

- Thursday 3 October
- Wednesday 9 October
- Wednesday 23 October
- Tuesday 29 October

Each BBQ will operate from 11.30 am to 1.30 pm. The location of each BBQ will be emailed to you. In addition to sausages, meat patties are now also available. Everyone is welcome to attend all remaining sessions.



Pictured at a recent BBQ are (from left) Karen Sturman, Gretta Stephens, Andrew Melville & Glenn Scott



NZAS employees enjoying a catch-up over a snarler!

NZAS Spring Carnival

In addition to the site BBQs, the NZAS Employee Activities Group has been working on another event.

This time the focus is on an off-site event for employees and their families.

The NZAS Spring Carnival will be held on Sunday 13 October and Saturday 2 November from 12.00 noon until 4.00 pm at the Southern Institute of Technology's Bungalow Training Facility, which is located on the corner of Forth and Ythan Streets. SIT's Bachelor of Hotel Management students have planned and will host the event, with the event forming part of their studies.

There promises to be something for everyone – some of the activities on offer include international students hosting a cooking demonstration, classes on lamb leg and shoulder boning techniques, espresso training, wine and food matching, craft beer appreciation, a wild food BBQ, massage and beauty therapy, plus interactive kids activities.

You can also shop at a number of market stalls and purchase a glass of wine or beer from the bar. Could be a good opportunity to start your Christmas shopping! Most of the activities are free with the exception of the market stalls and alcohol purchases.

As well as SIT, a number of external organisations have confirmed their participation in the NZAS Spring Carnival, including Invercargill Brewery, Windsor Wines, Seriously Good Chocolate Company, Back Country Cuisine, Blue River Dairy, KiwiWakame, UnderCoverWear, Intimo, Forbidden City Kitchen, Treasure KEPT, New Generation Licorice and more ...

Details of the event are attached.

Hope to see you there ...

**For NZAS
employees
& families**

NZAS Spring Carnival

In partnership with
**The Southern Institute
of Technology**

FREE activities

- How to make perfect Espresso
- Massage & beauty treatments
- Continuous activities for the kids
- Micro brewery beer, wine & food appreciation sessions
- Lamb butchery with cooking demonstrations & tastings
- Cooking demonstration & tastings from SIT international students

Cash required for

- Market stalls
- Cash bar



Sunday 13 October & Saturday 2 November 2013
12 noon – 4 pm

SIT's Bungalow Training Facility
Corner Forth & Ythan Streets, Invercargill

