ROWE SCIENTIFIC PTY LTD www.rowe.com.au

Wishing you and your family a
Merry Christmas and a Happy New Year

NEWSLETTER
NOV - DEC 2018

Canberra, Australian Capital Territory / Australia - March 10 2012: Enlighten Canberra Festival at Questacon Science Museum with light projection of periodic table of elements on facade at night

QUOTE OF THE MONTH

Every aspect of the world today – even politics and international relations – is affected by chemistry.

LINUS PAULING

1901 TO 1994

Chemist

https://www.famousscientists.org/brilliant-chemistry-quotes/

CLIENT OF THE MONTH:

Deflector Gold Copper Project

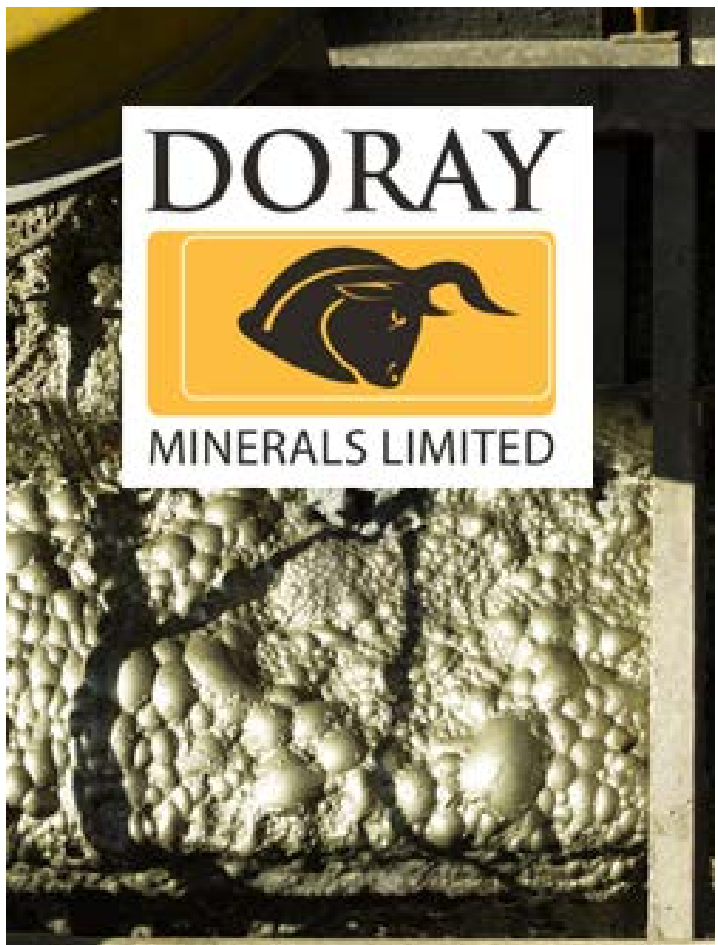
Winners are chosen by our computer on a random basis. The prize is the client's choice of $100 worth of laboratory items from a supplied list.

From Deflector Mining:

The Deflector Gold Copper Mine ('Deflector') is located in the southern Murchison region of WA, 450km north of Perth and 160km east of the Western Australian regional city of Geraldton. First gold production from Deflector occurred in May 2016.

Deflector is a shallow narrow vein, high-grade gold and copper underground mine. The ore is located in a series of structurally controlled lodes.

A fit-for-purpose processing facility was constructed to enable recovery of gold from a gravity circuit prior to the production of a copper gold concentrate via flotation methods.



The project is expected to produce approximately 80,000 – 85,000 ounces of gold and 2,250 – 2,750 tonnes of copper in the 2019 financial year.

The project has a current four year mine life with potential to significantly add to those inventories through exploration to extend the current ore bodies as well as new discoveries in the immediate vicinity.

CLEVER PERSON'S QUIZ

Question:

"Jumping crystals" have the ability to rapidly move due to structural reconfigurations when subjected to a temperature change in a phenomenon known as the thermosalient effect. What compound has the largest observed "jump"?

The answer to this will be in the next edition of the Rowe Scientific newsletter.

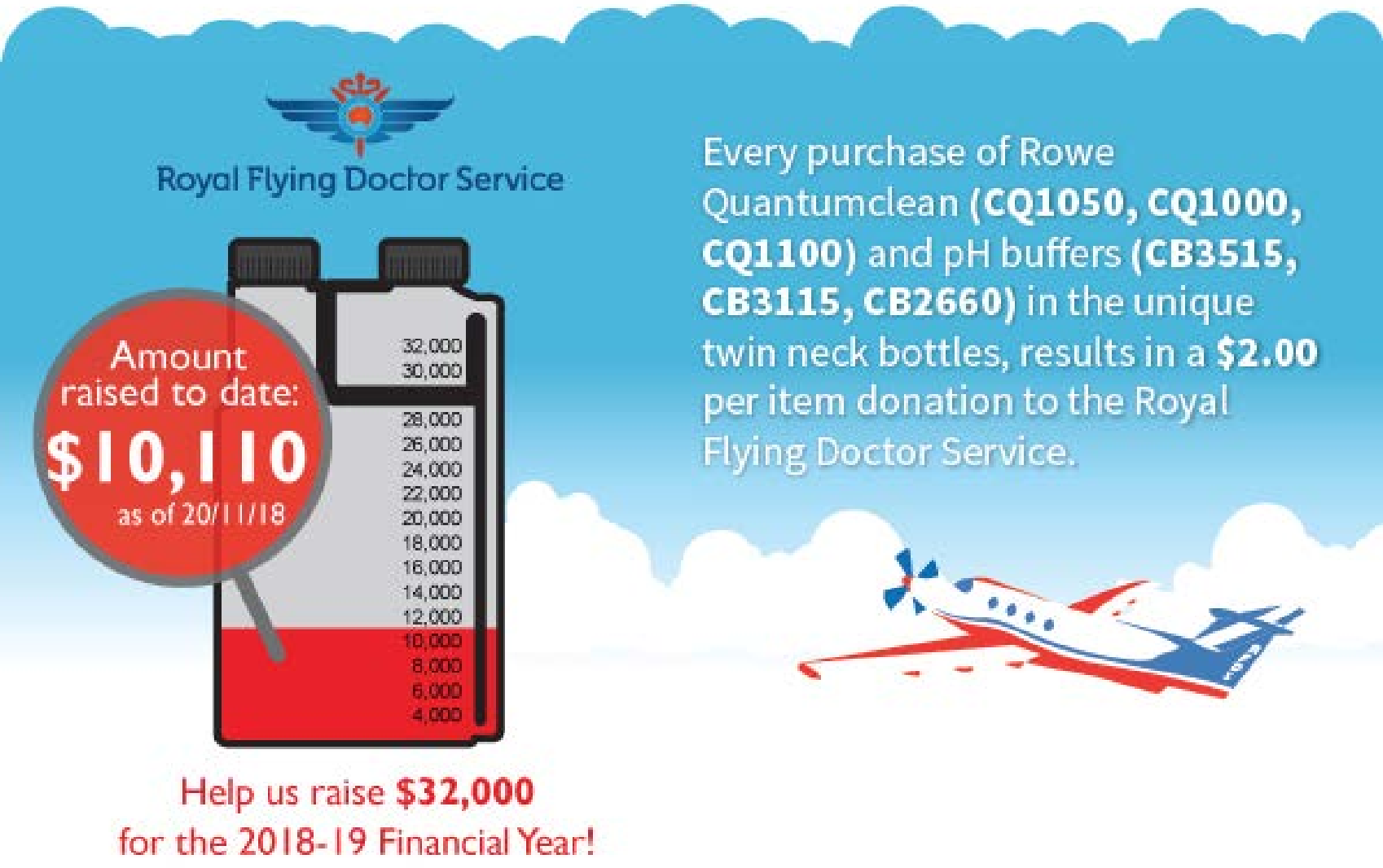
Did you know the answer to the last quiz question?

How may boric acid (crystalline solid, melting point 171°C) be made volatile at room temperature?

Answer:

Boric acid reacts readily with methanol to form the volatile ester trimethyl borate (boiling point 67°C, flash point 29°C). A beaker of trimethyl borate left in humid air may form crystals of boric acid around the rim as water hydrolyses the evaporating trimethyl borate back to boric acid and methanol. Trimethyl borate also provides entertainment when combusted as it burns with a brilliant green flame.

SUPPORTING THE RFDS



ROWE SCIENTIFIC PTY LTD EXHIBIT AT COMBIO 2018

This year's COMBIO 2018 event was held at the new International Convention Centre in Sydney, right on the Darling Harbour waterfront.

Rowe Scientific Pty Ltd was there showcasing various Life Science products such as refrigerated centrifuges, pipettors, microscopes, incubator ovens and consumables, to only list a few.

We thank the scientists, laboratory technicians, and managers who stopped by to discuss their various needs and requirements.

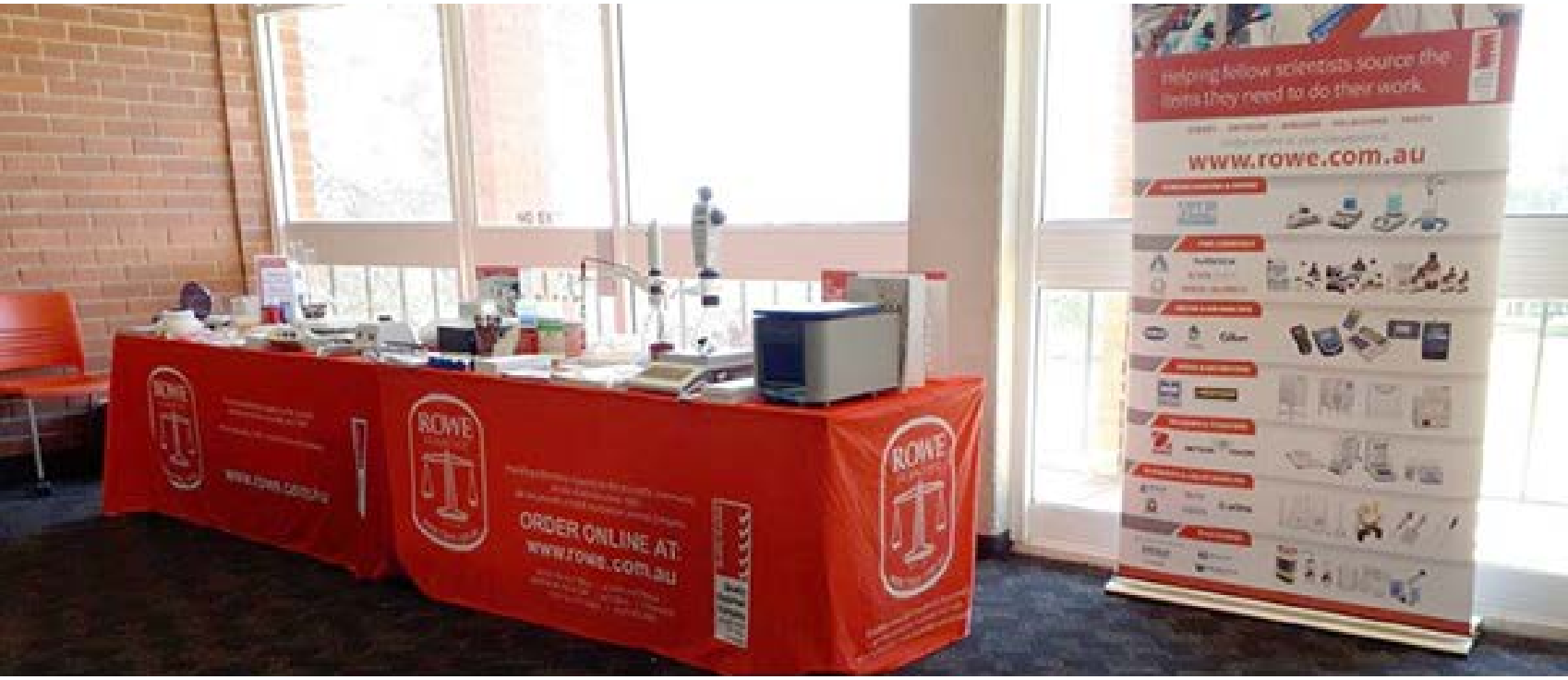
We caught up with quite a few existing customers and made many more valuable connections within the Life Science industry.

Thank you to everyone who stopped by and caught up with Allan, Kathryn and Hayden who were there on the day managing our exhibition stand.

All the best.

John Dwyer
Rowe Scientific Pty Ltd
NSW & ACT State Manager

CRUSH TRADESHOW EXHIBITION AT THE GRAPE AND WINE SCIENCE SYMPOSIUM



On the 25 and 26 of October 2018, Rowe Scientific exhibited at the annual Crush 2018 - Grape and Wine Science Symposium held at the Charles Hawker Conference centre, University of Adelaide, Waite Campus, Urrbrae South Australia.

Joanne Hards and Doug McPhee showcased a wide range of products dedicated to the wine industry. There were approximately 150 scientists and laboratory technicians who attended the 2 day event and gave researchers in the wine industry the opportunity to present their invaluable work.

We thank everyone who stopped by our stand and it was a pleasure to meet you all.

Joanne Hards
Rowe Scientific Pty Ltd
SA Account Manager

SCIENCE TEACHERS' ASSOCIATION OF QUEENSLAND SCIENCE CONTEST

STAQ held its awards ceremony for their Queensland Science Contest at University of Queensland on 27 October 2018.

The following students won first prizes and were recipients of Rowe Scientific funding.

Mr Martin Bullock from Rowe Scientific presented these awards and is in the photos with each of the students.

Ms Samantha Howe, Mr Martin Bullock

Samantha Howe, Tamborine Mountain State High School.

1st prize in Engineering and technology (Yr 7-8) for her project "The wheelchair transportation assistant."

Mr Ryall Barrett, Mr Martin Bullock

Ryall Barrett, St Michael's College.

1st prize in Engineering and technology (Yr 9-10) for his project "Thermodynamic cooler."

Kane Segawa, Qld Academy for Health Sciences.

1st prize in Scientific investigations (Yr 11-12) for his project "An investigation into reducing the catalyst poisoning of nickel catalysts using potassium promoters during hydrogenation of olive oils."

Mr Martin Bullock, Mr Kane Segawa

Contact us to receive a copy or simply click on the button below to...

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PDF

SCIENCE TEACHERS' ASSOCIATION OF VICTORIA (STAV) SCIENCE TALENT SEARCH 2018

The STAV Science Talent Search awards ceremony was held at La Trobe University, Melbourne on 29 October 2018.

Ninety-three students (years 7-12) were awarded Rowe Scientific Pty Ltd bursaries (cash prizes) for projects in the Experimental Research, Inventions and Working Models categories.

An example was Ben Howell and Eli Swenson, pictured on the right.

Both are year 8 students at Flinders Christian Community College, and they were awarded a bursary for their project "Recycling and Gravitational Forces using an Archimedes' Screw", in the Working Models category.

Well done gentlemen.

Mr Ben Howell and Eli Swenson

CHARLES STURT UNIVERSITY (WAGGA WAGGA, NSW) ROWE SCIENTIFIC PTY LTD CHEMISTRY SCHOLARSHIP

Congratulations Clarissa, from the national Rowe Scientific Pty Ltd staff.

Associate Professor of Chemistry, Mr Paul Prenzler, presenting the scholarship to Ms Clarissa Krenz.

In Clarissa's words;

"As a 2018 recipient of the Rowe Scientific Chemistry Scholarship, I am writing to thank you for this incredible honour. Receiving this scholarship means a lot to me and I am extremely grateful for the opportunity. This is my first year of university and this scholarship will allow me to focus more readily on the work ahead. I am very excited about studying a Bachelor of Science and, in particular, to be majoring in Analytical Chemistry. I have wanted to do a chemistry-based course for many years and tailored my high school subjects to allow for that.

The first session of university at CSU is ending now and so far, I am extremely happy with my course and the experiences I have had whilst completing this session. I have been able to learn many new things and practice my laboratory skills too due to the wonderful equipment made available to science students. In the future, I hope to also learn what is involved in being a Forensic Chemist, as this is my specific field of interest.

In the meantime, the funds from this scholarship will enable me to buy textbooks I need for future subjects and new equipment (such as a laptop). However, my biggest concern at the moment is buying my first car as I have not been able to previously and it has made getting to my university classes difficult. Buying a car with a part of these funds will make sure that I can attend every lecture and have an amazing experience at CSU.

In conclusion, I am very grateful to have been chosen and I intend to put the money towards meaningful goals. I hope to make a difference in the world by being a part of the scientific community. Thank you for awarding me this scholarship."

Sincerely, Clarissa Krenz, (BSc)

WESTERN SYDNEY UNIVERSITY ROWE SCIENTIFIC PTY LTD CHEMISTRY SCHOLARSHIP

In Lorraine's words;

"I would firstly like to take this opportunity to thank you for the prestigious chemistry scholarship I received through Western Sydney University. I am extremely grateful for this recognition and the scholarship came at a pivotal time in my life.

Chemistry has always been a passion of mine and returning to university after raising my family has been exciting. I have been undertaking some voluntary research on the role of metals and their chemical interactions in the brain and now have the opportunity to further my studies by undertaking a PhD in chemistry.

Vice-Chancellor & President, Professor Barney Glover, presenting the award to Ms Lorraine Peacey

I hope to continue in the field of chemistry as I believe it plays such an important role in our everyday lives.

Thank you once again for the honour of this award."

Congratulations Lorraine and best wishes in your PhD studies, from the national staff of Rowe Scientific Pty Ltd.

CURTIN UNIVERSITY ROWE SCIENTIFIC PTY LTD HDR CHEMISTRY SCHOLARSHIP 2018

Congratulations to Mr Aswin Rajagopalan, the 2018 recipient of the Rowe Scientific Pty Ltd Higher Degree by Research (HDR) Chemistry Scholarship, at Curtin University, WA.

In Aswin's words;

"My main chemistry areas of interest are in natural products semi-synthesis and spectroscopy.

More specifically, I am interested in using organic synthesis and spectroscopy as complementary techniques to develop a better understanding of the distribution of natural products and their biosynthetic pathways within plants growing in Western Australia.

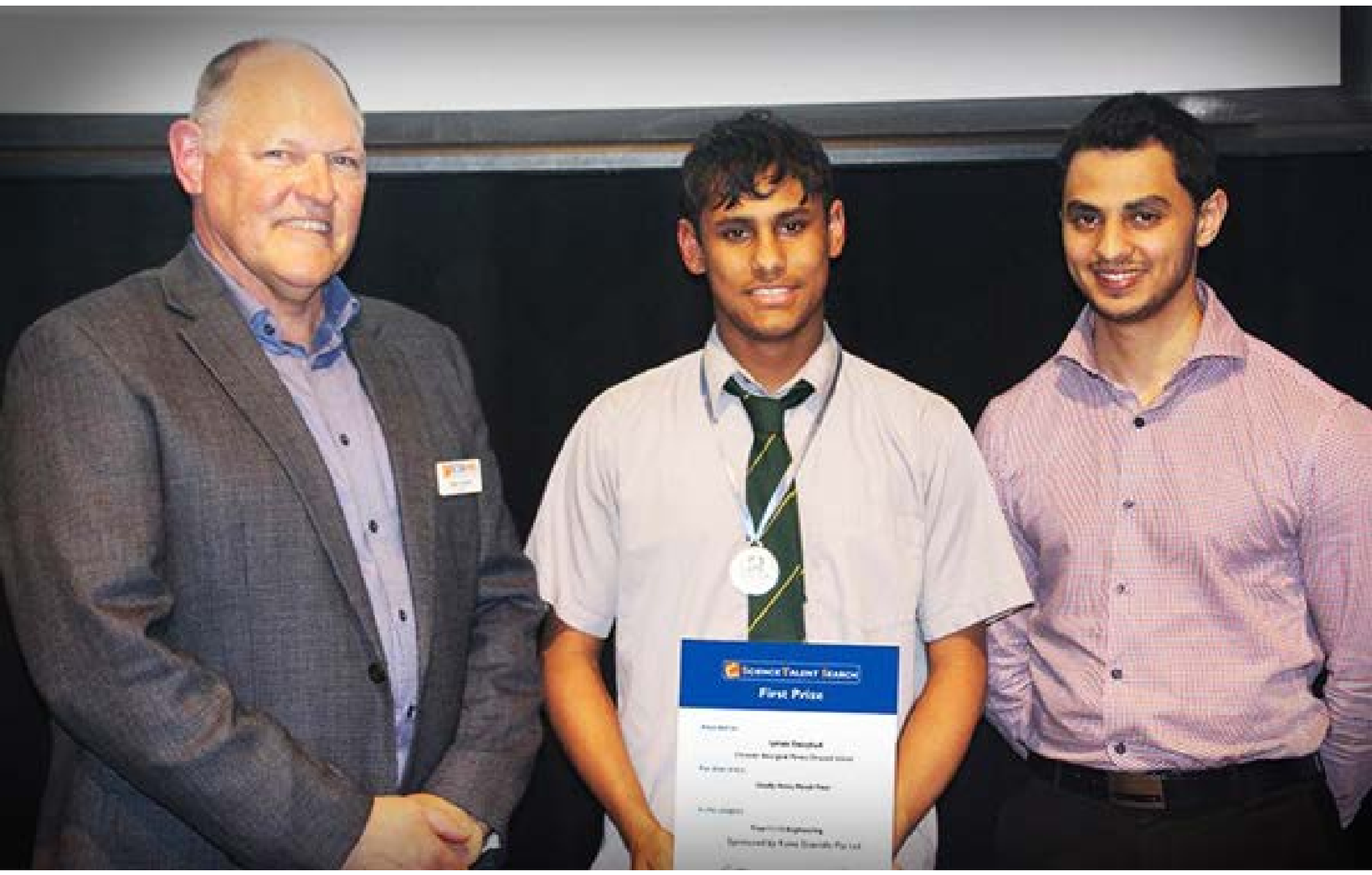
I am also interested in using natural products to develop novel scaffolds for use in medicinal chemistry.

Many native plants have been using by the Aboriginal people for medicinal purposes, so there are potentially many medicinally interesting natural products available in native flora."

Mr Aswin Rajagopalan

SCIENCE TEACHERS ASSOCIATION OF WA SCIENCE TALENT SEARCH 2018

Rowe Scientific Pty Ltd is pleased to be one of the supporters of STAWA, by providing cash prizes to winning students. The following are two examples from the recent Science Talent Search in WA.



L to R - Mr John Clarke (CEO, STAWA), Mr Uriah Daisybell, Mr David Moussa

Uriah Daisybell from the Christian Aboriginal Directed School in Coolgardie won 1st prize in the Year 11-12 Engineering category for his project on 'Deadly Heavy Metals Filter'. Uriah was also awarded the overall prize of the Science Talent Search Young Scientist of the Year.

Excellent work Uriah.

L to R - Mr John Clarke (CEO, STAWA), Ms Mary Hippisley, Mr David Moussa

Mary Hippisley from Shenton College won 1st prize in the Year 11-12 Science Investigation category for her project on 'The Effects of Gibberellic Acid on the Growth and Development of Runner Bean Seedlings'.

Well done Mary.

SOUTH AUSTRALIAN SCIENCE TEACHERS' ASSOCIATION OLIPHANT SCIENCE AWARDS

SASTA conducted its Oliphant Science Awards presentation evening on 21 September 2018.

Rowe Scientific Pty Ltd Award winners for the category 'Science Inquiry' are shown below, having received their awards from Associate Professor Andrew MacKinnon (from the Australian

Institute of Physics).

Left to right, back row; Ms Inika Weber, Mr Cameron Coggins, Ms Prathicksha Ventatesan, Associate Professor Andrew MacKinnon. Front row; Mr Steven Zhang, Ms Lauren Heddle,Ms Ruby Sugars and Ms Sabrina Lin.

The first prize winners were:

- **Prathicksha Venkatesan (year 8)** – Project title: **Are any of the commonly used disinfectants effective against the gram-negative bacteria, Pseudomonas aeruginosa?**
- **Sabrina Lin (year 11-12)** – Project title: **Effect of Citrus lemon juice on the senescence of Lilium "Casa Blanca"**

Sabrina was also the Oliphant Trophy winner for 2018 for the above project.

SCIENCE TEACHERS' ASSOCIATION OF TASMANIA

The Science Teachers' Association of Tasmania (STAT) held its annual Tasmanian Science Talent Search (TSTS) Awards Presentation Day on 25 November 2018 at the University of Tasmania, Hobart.

Rowe Scientific Pty Ltd provides funding for a number of TSTS awards but the major prize is the 'Rowe Scientific Most Promising Young Scientist in Senior Secondary' Award.

In 2018 this prize was awarded to Raiden Lemon from The Hutchins School, Hobart.

Raiden was awarded $1,000 for his research investigation “To what extent can small objects be manipulated in acoustic standing waves?”

A photo of Raiden with his certificate is to the right.

Congratulations Raiden, from the national staff of Rowe Scientific Pty Ltd.

Mr Raiden Lemon

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SCIENCE TEACHERS ASSOCIATION OF NSW YOUNG SCIENTIST AWARDS

The STANSW Young Scientist Awards presentation ceremony was held at the University of Wollongong on 31 October 2018. A new awards category was introduced this year - The Rowe Scientific Depth Study Awards.

These awards are for Year 11 practical investigations or secondary-sourced investigations that most effectively communicate how their depth study has enabled the student to develop and acquire a deeper knowledge and understanding of one or more clearly identified concepts found within or inspired by the syllabus - 1 Gold Award ($600), 3 Silver Awards ($300) & 6 Bronze Awards ($200).

The 2018 Rowe Scientific Depth Study Gold Award was received by Carla Zammit from Redeemer Baptist School. Carla's project looked at the effects of cryovacing on the quality of cooked bones and boneless steaks.

To improve shelf life and allow time for transportation, meat is packaged and all air is removed, a process called cryovacing. Carla was concerned that this process was all causing greater loss of water, potentially reducing the characteristics of the cooked meat. Her investigation showed that this is not the case, and that it was the presence of the bone that minimised loss of water.

(L to R) Ms Carla Zammit, Mr John Dwyer (NSW State Manager, Rowe Scientific Pty Ltd), Mr Kerry Sheehan (Inspector for Science, NSW Education Standards Authority)

SEAACT SCIENCE ENGINEERING FAIR

Ms Sreeya Das being presented with her award by Ms Lu.

The SEAACT (Science Education Association of the Australian Capital Territory) Science Engineering Fair awards ceremony was held in Canberra on 26 October 2018.

Ms Sreeya Das from Lyneham High School won a Rowe Scientific Award for Chemistry for her project "An A-peel-ing Alternative to the Appalling Alum."

Sreeya was presented with her award by Yaya Lu, of ANU (Australian National University) and BHPBFSEA (BHP Billiton Foundation Science and Engineering Awards) and Intel ISF (Intel International Science and Engineering Fair) alumnus.

RMIT UNIVERSITY (MELBOURNE) ROWE SCIENTIFIC PTY LTD CHEMISTRY SCHOLARSHIP

Congratulations to Mr Nathan Rigby, the recipient of the RMIT University's Rowe Scientific Chemistry Scholarship for 2018

Mr Nathan Rigby, Distillation chemist, at the workface

In Nathan's words;

"The decision to change careers and return to university as a mature age student was a daunting move for me. Chemistry has always fascinated me and I've always looked below the surface, to know not only how something works, but why? Studying the Bachelor of Science (Chemistry at RMIT) allowed me to find my specialties of interest; physical chemistry and thermodynamics, and analytical sciences.

Receiving the Rowe Scientific Scholarship for outstanding achievement in Chemistry allowed me to further dedicate time towards achieving the best possible result I could attain. It meant the difference between buying that extra textbook or not working that extra day during exam period. It also gave me confidence, inspiration and validation that the hard work I was putting in was being noticed.

I'm now employed as Chemist and Head Distiller at a new distillery in Warrandyte, where the skills and knowledge I acquired during my degree are utilised daily. Distillation is an interesting field, it is an unusual combination of art and science, and I strive to build on the technical understanding in the industry as a whole.“

Well done Nathan, and best wishes in your new position.

NORTHERN TERRITORY SCIENCE TEACHERS ASSOCIATION 2018 YOUNG SCIENTIST AWARDS

The Territory Young Scientist awards ceremony was held in Darwin on 22 November 2018.

George Kypreos, Talia Holt and Kaliope Vazanellis, all students from Casuarina Senior College, were awarded 1st, 2nd and 3rd prize respectively for the category, Scientific Enquiry Student directed Year 10-12 Individual. This category’s awards are funded by Rowe Scientific Pty Ltd. In this category, students complete a practical investigation where variables are altered and an investigation is conducted. The topic is independently chosen by the student and has a real world application.

George Kypreos - Eddy currents: the effect of the thickness of a conductor (mm) upon the time taken for a pendulum with a magnet to stop (seconds) over an eddy current.

Talia Holt - The effect of temperature on the activity of lipase.

Kaliope Vazanellis - The effect of salinity on the rate of germination of wheat.

Congratulations people, from the national staff of Rowe Scientific Pty Ltd.

(L to R) Ms Talia Holt, Mr George Kypreos, Ms Kaliope Vazanellis, with Ms Susan Bowden (Executive Director of Education Policy and Programs, NT Department of Education)

STATE NEWS

NEW SOUTH WALES

Dear Clients,

Another year of growth for Rowe Scientific in NSW.

The mad dash to the end of the year is in full swing as customers stock up in advance of the Christmas holiday season and spend any remaining funds before the end of the calendar year.

2018 was a year of change for Rowe in NSW, however, thanks to your support it was another very successful year, building on the strong growth of previous years.

Our team are looking forward to a well-earned rest so they are refreshed, renewed and ready to resume providing you with the level of service which you have come to expect from the Rowe Scientific NSW office.

On behalf of the entire Rowe team I would like to take this opportunity to thank you for your support throughout the year and to wish each and every one of you a peaceful and relaxing Christmas and good health and prosperity in the New Year ahead.

Best Wishes for the Christmas season and New Year

Allan, Hayden, John, Kathryn, Kazi, Rodney and Troy.

QUEENSLAND

Dear Clients,

As we draw closer to the end of 2018 we thank you for your support throughout the year.

Our role is to service your laboratory needs and in doing this we value the business you have trusted us with and the relationships we have continued to build.

It has been a year of growth with many challenges along the way and as a fully Australian owned scientific supply company our aim is to support you in return.

Our Queensland team wishes you and your families a very Merry Festive Season and a Happy and safe New Year.

Please don't forget to order those important products that you will need over the December/January 2019 period as many suppliers & manufacturers take their annual break during this time. (We will be open other than for the public holidays).

Cheers from the Queensland team:
Yvonne, Martin, Brian, Josephine, Leon, Steve, Hyewon, Colin and Jacob.

SOUTH AUSTRALIA & NORTHERN TERRITORY

Dear Clients,

I would like to take this opportunity to wish all of our clients and their families a Merry Christmas and a safe and Happy New Year!

We have enjoyed and appreciated your support throughout 2018 and we look forward to your continued support in 2019. Our morning teas continue at different locations around Adelaide so keep in touch with your account manager to be notified as to when we are hosting one at a location near you!

Daniel and I have worked together with our marketing department to produce the 2018-19

Vintage Catalogue. There are many new items that will be of particular interest.

The biggest item of note is that we are now the official Australian distributor of the Glasschem SO2/VA stills. Contact your local office or account manager to get more information and to secure your copy of our catalogue.

We have a lot of marketing literature out and about at the moment. We have a great “Lab Likes” brochure doing the rounds and by the time this goes to print most of you should have your 2019 Wall Planner.

Contact your local office at any time you need further information.

All the best from:
Doug, Steve, Mark, Michael, Daniel, Jo, Dani, Paula and Moreton.

VICTORIA & TASMANIA

Dear Clients

Can you believe it? 2018 is behind us! Did anyone get a chance to savour it, to appreciate the moment? The year certainly was not boring! Donald Trump managed to keep everyone on their toes with our local lads also contributing to keeping things unpredictable.

We'd like to extend a big thank you to Victoria and Tasmania for your support through 2018. It has been a record year, with improved sales across all the sectors including Industry, Food, Schools & R&D.

Our Marketing department has been especially busy through the year and you should be receiving an amazing brochure on “Desiccators” pretty soon, followed by the second issue of “LAB LIKES”. Thank you all for the positive feedback on Issue number 1.

All the best wishes for the Festive Season and for those of you taking vacation, we hope you have a relaxing, care-free holiday.

From your team in Victoria:
Garry, Nic, Mango, Amanda, Adam, Brian and Christine and Hoa.

WESTERN AUSTRALIA

Dear Clients,

It is only the second week in November and I know that your business is working hard – I see it in your orders!

We are prepared to source the scientific items that you require, from whatever source, to keep you supplied with the items you need to do your work.

Looking forward, we only add agencies where the product is of a quality that we would be comfortable offering to all markets.

In addition to VELP increasing their range with a C-N analyser, this year we have added Nabertherm muffles and furnaces, Leadfluid peristaltic pumps, SHP autoclaves under the Laboklav brand, Nieka fusion machines, and just this month the Glasschem range for the wine industry.

We strive to keep your business operating. Please do not hesitate to call us, or talk directly to me. Thanks for your support and we love being kept busy.

Merry Christmas and a safe, happy new year.

All the best from:
Peter Sommers and the Western Australian Team.

Email: NSW & ACT | QLD | SA & NT | VIC & TAS | WA