

ERA POLYMERS NEWS BULLETIN



Era Polymers Administration Centre

> **INSIDE THIS EDITION**

IN THIS ISSUE

| LESSONS FROM LIFE | 1-3 |
|----------------------------|--------|
| ERAPOL 83A | .1 & 8 |
| ERA POLYMERS ECOFOAM | 3 |
| ERAPOL TU60D-LP | 4 |
| EME165 & RN83A PIPELINE PI | |
| GOING WITH THE GRAIN | 5 |
| WATERKOTE® 2K | 5 |
| ANNUAL SALES MEETING | 6 |
| ERA FAMILY EVENTS | 7 |
| ERA MILESTONES | 7 |
| STOP TOOLING AROUND | 8 |
| ERASPRAY ES81A | 9 |
| NEW ERA STUDENTS | 10 |
| ERA POLYMERS - ELASTOMER: | S10 |
| PU CHINA 2017 | 11 |
| MASSO COMES TO VISIT | 11 |
| MACHINE DEPARTMENT | 12 |
| THE LIGHTED SIDE | 12 |

LESSONS FROM LIFE #24 - WHO ARE YOU? WHO WHO...WHO...WHO?

I'm sure that I've written about it before ...i.e. about 60% of your personality is genetic, and 40% comes from your environment.

So, it's interesting now watching my grandchildren's personalities develop... and trying to understand which bits they get from their parents / grandparents, and which bits they are getting, from the wide world around them!

With our children, Alex and Niki...their personalities are done, so it's relatively easy, to understand what they got, from where.

Like all boys, Alex has copied some of his father's traits (and yes, indeed, his mother's as well).

For example, I HATE wasting time, I TRY, really try, to make every second count (Tina is even worse than me, on that score).



(continued pg 2)

ERA POLYMERS: FOCUSING ON ERAPOL E83A

Polymers

BUILD IT, AND THEY WILL COME

Erapol E83A is a liquid isovanate terminated pre-polymer based on PTMEG polyol; it has outstanding resilience, low hysteresis and heat build-up as well as excellent hydrolysis resistance. With its high resilience Erapol E83A is suitable for mining applications, pipelining, pump impellors, floatation equipment and more. Erapol E83A also has low temperature resistance, making it suitable for applications involving service temperatures below 0°C up to 60°C e.g. wheels and tyres.

"So, What Was Shannon Doing In Russia?"



(continued pg 8)

(continued from pg 1)

That's how I evolved ... in my teenage years ... the living was easy I didn't push myself, I was happy to coast along.

Somehow, my father, and my wife, got through to me ... to the point where my family constantly NOW lectures me ...

"SLOW DOWN, GEORGE, for crying out loud, SLOW DOWN "

Too late, the genie is out of the bottle!

So, being a "good" fathera long time ago, I got through to Alex, and lectured him, NOT to waste his talent AND HIS TIME ... I gave him the example of an American baseball game ... where there is 20 SECONDS to go, and they can have 5 plays, in these last 20 seconds... the message got through, much earlier for him, than it got through for me.

The other message that got through, is that I, and my father, can / could NEVER, stand bland, insipid conversations.

Some families have taken BLANDNESS, and insipidness, to an art form.... Meetings are held with LARGE stony silences...

"So, Alex HATES wasting time, AND, he likes to throw "bombs" into discussions ...
Just like his father."

Some people believe, that if somebody nods SILENTLY, through "get togethers ", then they must be WISE...

RUBBISH... to me, it means that their neurons and the synapses aren't talking to each other!

My father, I, my son, and sometimes, my granddaughter Tina, and maybe the rest of my grandchildren (will one day) like to throw "bombs" into a meeting to get the intellectual juices, flowing.

So, Alex HATES wasting time, AND, he likes to throw "bombs" into discussions Just like his father.

So, that's the back story.... Papamanuel's HATE wasting time ... and they like "juicy" conversations.

Our lunches, downstairs, are VERY QUICK affairs... Eat, throw out a "bomb" or two... and just when the juices start to flow ... Alex, has to go and pick up some coffee beans...so you have to make your points, fast... very fast.

So, two days ago, at lunch, Alex threw out his latest "bomb":



"SO, DAD, ARE YOU GREEK OR AUSTRALIAN?"

"GREEK, OF COURSE ... I was born in Greece, both my parents were GREEK my DNA is GREEK. So I'm GREEK ...My SOUL is GREEK"

So Alex jokingly retorts;

"I can't believe that you said that dad, after all that Australia has done for you "...

By NOW the conversation is getting faster and faster ... I know that he is winding me up ... But, what the heck, I'm good for a "wind".

"Are you kidding Alex ... don't you read my "Lessons" ... I'm constantly referring to Australia, as the "Promised Land ... That's where your grandfather, your namesake, brought us ...

Australia has given us a life that Greece could NEVER have given us, BUT, I'm still GREEK... Yada, yada, yada.

By this time, Francene, as always, being the peacemaker, jumps in and says:

"DAD, the correct answer should be saying, that you are an Australian Greek ... "

"There is NO correct answer, Francene, it is what your soul tells you, who you are ... and my soul, my DNA, tells me I'm GREEK ...

Am I putting Australia down by saying that...? NEVER, this is my home, this is the country that has given us every opportunity to get to where we are today. My adopted country is AUSTRALIA"

So, I thought... AHA, here's a good topic for the Next Newsletter... So upstairs, I asked the question of some of my staff...

Keep in mind, that our company is about 140 people, and last time I counted, we had about 42 nationalities ... THAT is the beauty of being in AUSTRALIA... We are a MULTICULTURAL country... people from different cultures living in (relative) harmony.

So, I asked VICTORIA, she was born in Australia with Greek parents; "I'm Greek of course ". Her son, George, one of our Business Managers; "That's a difficult question... I think that I'm Australian... BUT NO, I'm Greek ".

VICTORIA asked her 17 year old daughter, Eleni, the same question; "Silly question mum, OF COURSE, I'm Greek"... And with the wisdom of a young lady, she says "Ah, so if a German Shepherd is born in Australia, is he an Australian dog, of course not, he is still a GERMAN shepherd"... You can analyse that on a superficial level... BUT go one level down... In a similar vein, when I ask my oldest, best friend;

BORIS; "Are you Australian OR JEWISH?"... "Dumb question, George!!"

Then I asked Nicola French, born in England; "British ... the empire has gone, Britain will unravel when Brexit happens, BUT for the time being I'm BRITISH "

John Diaz, born here, from Colombian parents; "Australian"

Dave Weir; "Are you kidding, I'm a New Zealander"

Terry Petkovic, born here, from CROATIAN parents;" Croatian Australian "

When I get together with my American brother Larry Carapellotti, he says, that he is, an ITALIAN American.

His wife CATHY, is IRISH American, through and through...

Larry can't speak a word of Italian. It is something that his GRANDFATHER, drummed into his family when he came out from Italy, at the beginning of the 20th century ...

"Italy is the past, AMERICA is our FUTURE "

So he refused to speak Italian, ditto, to his children and grandchildren. So, they lost their language ... BUT they didn't lose their Italian ethnicity ...

Larry goes back to Italy every year ...and he told me a couple of years ago, that Italy feels like home... he could live there.

I first went to Samos, 6 months AFTER dad died (he died on August 17th, 1993)... Tina and I, landed at Aristarchus Airport in Pythagorio... and I started crying (that's another bad habit that Greek men have, when the occasion arises they can cry ... and they DO NOT feel embarrassed to do so ... but that will be a topic of a future "Lesson")..

I cried because I had come back to my birth island. More importantly I cried, because all of dad's life in Australia... His body was in Australia, but his soul never left Samos ... whenever I would listen, his stories were

all about Samos ... and stupidly, I could never find the time to go back to Samos, when he was alive ... bummer, double bummer!)

So, there is no correct answer... It is who you FEEL you are ... It is WHO you have become....

I have become, a proud Greek, in my adopted country of Australia ... My family is blessed to be here... We have a life that only Australia could have provided us.... Australia is OUR future.

Tina, her mum, and I, will again be in Samos in the middle of September...

I'll again get goose bumps, driving around my island... And at the same time, get frustrated, listening to my countrymen , complaining about how hard their lives are, whilst they sit on their

I'll again feel, who we once were, and wonder, where we went wrong.

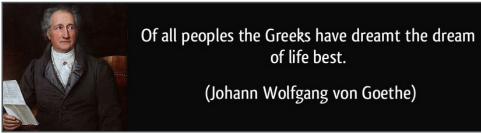
In the 18th century, a German, called Johan Wolfgang von Goethe said;

"OF ALL THE PEOPLES, THE GREEKS HAVE DREAMT THE DREAM OF LIFE THE BEST

We did a long, long time ago... and then we forgot, to dream.

I still DREAM, and my soul is still, GREEK.





REDUCING COSTS: ERA POLYMERS RIGID BLOCK ECOFOAM

Adept Medical Reduce Costs by using Era Polymers Era Polymers have assisted Adept Medical in Rigid Block Foam Ecofoam to Manufacture Components

Adept Medical is New Zealand's leading specialist plastics manufacturer to the medical market. They design and manufacture a range of proprietary products such as bed boards, surgical implant boards, handles, etc. these are used in dentistry, surgical and Dr's consulting rooms worldwide.

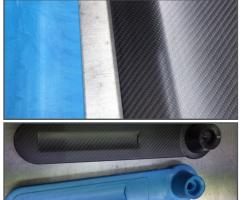
Many of the foam parts manufactured by Adept Medical have to be machined (cut) to extreme high engineering specifications this is achieved by a computer controlled cutting machine (CnC) also called Computer Numerical Control Router.



substantial cost savings by eliminating the need for expensive machining of block foam.

Era Polymers Ecofoam 90kg Rigid Block/Slab Foam can be hand mixed and poured into moulds, negating the need for machining. The moulded foam is then coated in composite material (fibreglass) for their customers.

Due to the success of Era Polymers Ecofoam 90kg Rigid Block/Slab Foam, Adept Medical will be using Ecofoam foam in all their composite products. For more information on our Foam Range please contact +61 (0) 2 9666 3788 or visit our website www.erapol.com.au





3

PERFECT TIMING: A 60 SHORE D ELASTOMER WITH LONGER POT LIFE IS FINALLY HERE!

Do you need a 60 Shore D Elastomer with a Long Pot Life? Have you tried Era Polymers, **Erapol TU60D-LP?**

Era Polymers Cold Castable range now includes **Erapol TU60D-LP**. A 2-component liquid casting system **Erapol TU60D-LP** has a Long Pot Life and produces a 60 Shore D Elastomer an ideal product for Pattern and Mould Making.

Features of Erapol TU60D-LP include:

- Long Pot Life (20 30 minutes @ 25°C)
- Very Low shrinkage
- Can be processed and cured at both room and elevated temperatures

Other Cold Castable Products offering a 60 Shore D Elastomer in the Era Polymers Range include:

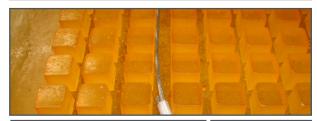
- Erapol TU60D This is a very similar product to TU60D-LP but has a much shorter Pot Life of (4 – 6 minutes @ 25°C)
- Erapol CC60D A general purpose elastomer with outstanding toughness, high elongation, excellent tear strength and abrasion resistance.
 Pot Life of (6 7 minutes @ 25oC)

Typical Applications for all 3 products include:

- Moulds
- Drop Hammer Faces
- Metal Forming Pads
- Core Box Liners
- Foundry Patterns

For more information on Era Polymers Cold Castable Range or any of Era Polymers other products please call +61 (0) 2 9666 3788, email us at erapol@erapol.com.au or visit their website www.erapol.com.au

Erapol TU60D-LP













AND THIS LITTLE PIGGY WENT ALL THE WAY HOME!

WHY USE A PIPELINE PIG?

For Cleaning inside of pipes

Saves on use of line flushing chemicals

Modern intelligent pigs can incorporate electronics and sensors that collect various forms of data during the trip through the pipeline, such as metal thickness and areas of corrosion

Increase pipeline carrying capacity

Reduce wear on pumps









Pipeline Pigs can also be coated in Elastomers such as EME165 & RN83A to make them reusable

For more information on this article or any of Era Polymers other products please call +61 (0) 2 9666 3788, email us at erapol@erapol.com.au or visit our website www.erapol.com.au

GOING WITH THE GRAIN: A FRESH NEW COAT

POLYURETHANE SPECIALISTS SINCE 1979

IT'S ALL CHANGE AT URETHANE COATINGS

Era Polymers' strength in floor coatings was boosted with the acquisition of Urethane Coatings in 2013, some four and half years ago. As part of this acquisition Mark Webb joined the Era team as National Coatings Manager for Urethane Coatings, a division of Era Polymers.

On the 14th July 2017, Mark a passionate and dedicated member of the Urethane Coatings team, decided to retire from full time employment in order to spend more time travelling the globe with his wife Jenny. It's not all over though! The Urethane Coatings team will continue to benefit from Mark's vast knowledge and experience as he will engage as a business consultant with the Era Polymers coatings division.

Mark's retirement ushers in George Zavras as the new Business Manager for Era Polymers – Coatings & Membranes division. Having been mentored by Mark, and, in addition to his experience in the coatings industry and technical background. George has a wealth of experience and knowledge to head up Era Polymers Coatings and Membranes Division.

On the 10th July 2017 Era Polymers welcomed two new additions to the Urethane Coatings division. Brought in to assist George in growing the Era Polymers Coating Business, Colin James and Jason Fullerton will fulfil the role of Technical Sales Representatives. Colin will be based in our Sydney office covering NSW and QLD. Jason will be based in our Melbourne office covering Technical Sales for VIC, TAS, SA and WA. Both Colin and Jason come from a background within the coatings industry and will serve as an excellent addition to our team.

Congratulations to our new dynamic Era Polymers – Coatings & Membranes team.

For more information:

- Urethane Coatings Timber Flooring Products please call us on 02 9666 3888 or visit our website www.urethanecoatings.com.au
- Era Polymers Coatings and Membranes please call us on 02 9666 3788 or visit our website www.erapol.com.au



(Left to Right) George Papamanuel, Mark Webb, George Zavras (2017)





(Left to Right) Jason Fullerton, Colin James



Flooring Industry News

It is with great pleasure that we announce that George Zavras was recently inaugurated by the ATFA (Australasian Timber Flooring association) as a Board Member.



Urethane Coatings is proud to announce, after further extensive development, the release of a Two Pack Waterborne coating designed for optimum efficiency specifically for the AUSTRALIAN MARKET!

WaterKote® Two Pack Waterborne Timber Finish Range



The 2K WaterKote® Range

WaterKote® SEALER

WaterKote® 2K GLOSS

WaterKote® 2K SATIN

WaterKote® 2K MATT

WaterKote® 2K HARDENER







ERA FAMILY EVENTS

CONGRATULATIONS! ERA BABY NEWS







DEBORAH & JOHN LI ARE GRANDPARENTS!!

Lillian and Alex welcome a

50 cm

BABY GIRL: LEAH

5:07 PM Weight: 3.71 KG

Length:

SATURDAY, 20 May 2017



PETER WOODFIELD

(CHEMIST, ERA POLYMERS SYDNEY)

GOT ENGAGED!

PETER PROPOSED TO MONICA ON BENDED KNEE AT DOLLS POINT

Date: 29 July 2017





NATHAN IAFETA

(EXPORTS, ERA POLYMERS SYDNEY)

TOOK THE PLUNGE!

NATHAN & SIOBHAN GOT MARRIED IN CHRISTCHURCH NEW ZEALAND



Blood makes you related...Loyalty makes you family



(Pictured Left to Right)

- Gina Gorman (Era Polymers)
- Farukh Jamil (Samos Polymers)
- Ricky Pearce (Samos Polymers)







MILESTONE

CAKE TIME!!



CONGRATULATIONS VINCE!

(Pictured Left to Right)

- Vince Williams (Samos Polymers)
- George Papamanuel





















Erapol E83A (Cont'd from Page 1)

Teaching our Russian Partner how to make EXCELLENT polyurethanes."

"Do, I get goosebumps, seeing our polyurethane's used in lands far and wide?"

"Sure I do \dots we're like the small engine \dots that kept saying to itself;

"I think I can, I think I can.... I know I can, I know I can"

The Little Engine That Could is an illustrated children's book that became widely known in the United States after publication in 1930 by Platt & Monk. The story is used to teach children the value of optimism and hard work.

"Our little polyurethane company is taking what we do so well here, to the world."

"Or, to use another metaphor, from one of my favourite movies ... "Field Of dreams"

"BUILD IT, AND THEY WILL COME"





Field of Dreams - When Iowa farmer Ray (Kevin Costner) hears a mysterious voice one night in his cornfield saying "If you build it, he will come," he feels the need to act. Despite taunts of lunacy, Ray builds a baseball diamond on his land, supported by his wife, Annie (Amy Madigan).

"We're building as fast as we can.

Thank you for being part of our dream."

Best Wishes

George Papamanuel

P.S. "Shannon, by the way, suffers from jet lag ... which means I have to stock up, even more, Tylenol PM's"



STOP TOOLING AROUND - TRY ERAPOL TU601D

Era Polymers Erapol TU601D, Tooling Urethane is a 2 component, low viscosity, low shrinkage, long pot life, 60 Shore D Castable Polyurethane System.

Erapol TU601D is easily processed and cured at room or elevated temperatures, and offers high tensile and tear strength, good chemical and solvent resistance together with excellent impact resistance.

Typical applications for Erapol TU601D include; Corebox lining, Protyping, Vibration shock and Dampening Pads, Foundry patterns, Moulds, Drop Hammer Faces, Metal Forming Pads and more.

Interested in finding out more visit www.erapol.com.au email erapol@erapol.com.au, or call us on +61 (0) 2 9666 3788.









JUST IN THE ZINC OF TIME - Eraspray ES81A HB

HYDRAULIC PRESS RELIEF

Eraspray ES81A HB Proves a success in Extremely Aggressive Zinc Mine Processing

Cole Trading were approached and asked to coat a 3.5 ton hydraulic press used in the Zinc Mine Processing an extremely aggressive environment. All previous coatings used in the past had failed within 12 months due to high abrasion and chemical attack.

These failures resulted in costing the company 10's of thousands of dollars in annual maintenance. Maintenance included shutting down the operation to pull the hydraulic press out, clean, recoat and re-install ready for service.

Cole Trading decided to use Eraspray ES81A HB to coat the hydraulic press as they had good results with Eraspray ES81A HB in the past on "other parts" in a similar environment.

Martin from Cole Trading coated one hydraulic press in Eraspray CLEAR ES81A HB and another in Eraspray BLACK ES81A HB as a spare. Having a spare in place ready to go would minimise down time when maintenance was required. The original hydraulic press is still working the spare still sits in the Engineering Shop 4 years later untouched to this day!

The Zinc Mine in Tasmania are very impressed with the performance of ES81A HB in this harsh environment and have opened the door for SCS (Specialised Coating Systems) a division of Cole Trading to look at other coatings & processes for them. A good result for all concerned.

Eraspray ES81A HB is a premium grade, high performance solvented polyurethane spray elastomer. It is characterised by a high solids content of 70% and possesses a high build rate achieved by the incorporation of a unique liquid thixotrope. Eraspray ES81A HB can be applied 3 – 4 times thicker than conventional solvented spray elastomers without cracking.

In addition to these qualities Eraspray ES81A HB also offers: Rapid build-up capacity without solvent entrapment and sagging. Excellent abrasion resistance.

Corrosion protection.

Bonds to any substrate when the appropriate surface preparation and recommended primers are used.

Remains flexible so is ideal for expansion and contraction of metal associated with climate change or equipment that is subject to movement.

Like to know more about Eraspray ES81A HB or any of our other Eraspray coatings?

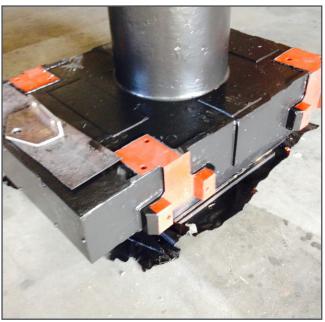
Please call us on

Tel: +61 (0) 2 9666 3788; or

Visit our website www.erapol.com.au









"For the things we have to learn before we can do them, we learn by doing them." - $_{Aristotle}$

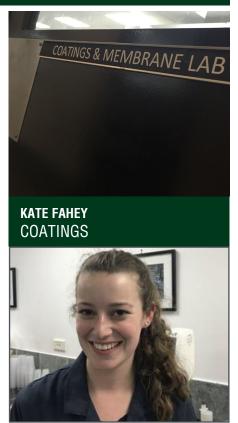
I've written about it, countless times before, that one of my favourite sayings is ... "A company is only as good as the people that it employs". From time to time Era Polymers employ chemistry students studying at UNSW in order for them to gain some practical experience in our Research Centre.

And we continue to employ some GREAT people... here are two new additions to the team:

Nicholas Velhuizen, working in Elastmers and Kate Fahey assigned to Coatings. They work two days per week and attend University for the remainder of the week.







POLYURETHANE ELASTOMERS - ERA POLYMERS OF COURSE!

Polyurethane Elastomers are extremely versatile and can offer a superior cost advantage, performance and a real alternative where plastics, metals, woods and ceramics have been used in the past.

Polyurethane Elastomers offer increased abrasion resistance and durability Polyurethane Elastomers have the following advantages over conventional materials;

- Better wear, corrosion and toughness on impact and abrasion resistance
- Higher durability to withstand impact and shock loading
- Light weight
- Higher hardness
- Resistant to oils, ozone, radiation, mould and fungi
- · Reduced noise pollution in the workplace
- Pourable and castable allowing cheaper tooling and fabrication of complicated pieces

Polyurethane Elastomers are designed for demanding applications, including the following:

Automotive: Grommets, bearings, bushes and flexible couplings.

Building and Construction: Moulds for concrete, gate seals, concrete pump parts and waterproofing.

Coated fabrics: Conveyor belts, fuel storage tanks, power transmission belts.

Electrical: Encapsulation, insulation, potting, cable joining.



Engineered components: Gears, sprockets, wire guides, rail draft gear, stripper plates, press brake pads, textile yarn guides, cutting boards, business machine belts, couplings.

Mining: Bucket liners, conveyor rollers, scraper blades, floatation cell impellors, pump linings, grading screens, lined pipes, cross-over pads.

Oil, Chemical and Marine: Bushings, bearings, hydrocyclones, buoys, pipeline pigs and scrapers, fenders, valve seats.

Rollers: Board rollers, nip rollers, metal forming, printing, conveyor, can coating, paper mill.

Seals and Gaskets: Pneumatic and oil seals, diaphragms.

Wheel and Tyres: Fork-lift tyres, heavy duty castor wheels, escalator wheels, roller skate wheels, roller blade wheels.

CONTINUING TO RAISE OUR INTERNATIONAL PROFILE IN THE POLYURETHANES INDUSTRY - PU CHINA 2017



Dave Weir (Technical Service Manager) and Terry Petkovic (R & D Manager) met up with Era Polymers' China Distributor and Technical Sales. Sven Wang to attend the most established annual event for the polyurethanes market in the region - PU China 2017. Held in the the Shanghai World Expo Exhibition and Convention Centre, the first day saw a record 4,500 visitors walk through the entrance. A sign of things to come for UTECH Europe in 2018 maybe? You can count on Era Polymers being there as well!













More often than not, in these Newsletters, we write about good things, stories, about who we are, happy stories about our company and its people.

Then sometimes, unfortunately, a sad story needs to be written... this is one such story.

Mick, was one of our valued employees... He worked at the Warehouse in our Samos Ena factory. He joined us in January 2011. He was one of those people who was easy to employ. He was motivated, dedicated. He never complained, he just put his head down, and did what he had to do.

He had a zest for life, and his job. He formed some very strong friendships with his workmates. On the morning of the 18th September, he told his workmates that he wasn't feeling well. Tragically, he passed away soon afterwards. It is also a measure of the person who he was, that the Chapel Service was packed with friends and relatives who came to pay their respects.

A poem was read at the Service;

" If Tears Could Build a Stairway, and memories a lane. We would walk right up to heaven and bring you back again

Since you'll never be forgotten, we pledge to you today A hallowed place within our hearts is where you'll always stay."

> Our thoughts and prayers go out to his partner Kerry and the family.

> > Rest in Peace . Mick.







Isidro and Alejandro Masso from **COMERCIAL QUIMICA** MASSÓ visit **Era Polymers**

An important part of Era's global business growth, is working with international distributors.

They bring to the relationship a great local knowledge of their markets, which makes it easier to work in many countries.

One of our main European distributors, is COMERCIAL QUIMICA MASSÓ, based in Barcelona, Spain. They are a distributor of many chemicals across Europe, including the Era range of prepolymers.

They represent Era in many countries, including:

- Spain
- Portugal.
- Denmark
- Hungary
- Czech Republic
- Slovakia: and
- Poland... to name a few.

In March this year, we had the pleasure of hosting Isidro and Alejandro Masso at Era Polymers Head Office in Sydney. Isidro is the owner, and Alejandro, his son, looks after the Urethane sales.

The local training was intended to further strengthen the knowledge of Era products, so that Masso can better assist their European customer base.



MACHINE DEPARTMENT



Yes, it's kind of a BIG DEAL

The GAMA Easy Spray, an easy-to-use portable hydraulic driven proportioning unit from machine specialists GAMA.

Era Polymers is the exclusive agent for GAMA in Australia and New Zealand, supplying the full range of GAMA spray equipment and spare parts.

The GAMA Easy Spray is a compact and portable hydraulic driven spray unit featuring product tanks positioned on a chassis with wheels that provide excellent mobility together with easy access to all types of work sites.

GAMA Easy Spray portable spray units are designed for simple operation even by less experienced personnel with the electrical console having just one control switch, which also saves time during set up and application.

For more information, call **Thomas Butt**Era Polymers - Machine Department: **Tel:** 02 9666 3788









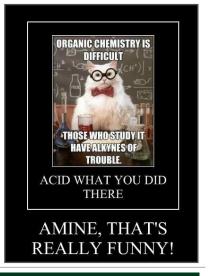


THE LIGHTER SIDE













EXCELLENCE IN POLYURETHANE CHEMISTRY

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