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'SEED QUALITY' SYMPOSIUM AND DINNER WITH JULIAN BURTON

ON MONDAY 19 SEPTEMBER, LUCERNE AUSTRALIA WILL HOST A 'SEED QUALITY' SYMPOSIUM AT THE KEITH INSTITUTE.

Speakers including Dr John Heap, Senior Research Scientist at SARDI and Christopher Preston, Lecturer at the University of Adelaide and will cover:

- Golden Dodder detection using aerial imagery and DNA testing.
- Harrington Weed Destructor's suitability on dodder.
- Use of microwave technology to destroy weed seeds.
- Reducing abnormal seedlings at harvest.
- USA experience on dodder and harvest management.
- Results from the Setaria Herbicide Control Trial.

Charlie Hilton, Executive Committee Member encourages all members to attend to increase their knowledge and applications of seed quality.

"Collaborative research outcomes and recommendations taken from no less than four recent RIRDC-funded projects will be highlighted with practical processes to adopt into farming systems. We look forward to seeing you there," he says.

Then join us for the Symposium Dinner with Julian Burton OAM, 2010 South Australian of the Year. (see over page)



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GOOD PEOPLE TO KNOW



SYMPOSIUM DINNER WITH JULIAN BURTON

JULIAN SUFFERED LIFE THREATENING BURNS FROM THE 2002 BALI BOMBINGS. HE HAS ESTABLISHED THE JULIAN BURTON BURNS TRUST. A PASSIONATE AND POWERFUL SPEAKER, JULIAN WILL ADDRESS THE AUDIENCE IN A POWERFUL SPEECH WITH STRAIGHTFORWARD ADVICE AND DELIVERING SIMPLE DAILY TOOLS WITH ENERGY AND HUMOUR. DON'T MISS HIM!



Julian Burton was named the South Australian of the Year 2010 for his work as the founder of the Julian Burton Burns Trust. Julian established the Trust following his long rehabilitation having suffered life threatening third degree burns to his body from the 2002 Bali Bombings terrorist attacks. Today, with Julian's guidance, passion and vision, the Julian Burton Burns Trust has become Australia's first national community organisation solely committed to prevention, care and research associated with burn injury.

A passionate and powerful speaker, Julian delivers presentations that focus on enhancing personal and organisational performance in the areas of motivation, leadership, communication, group dynamics, presentational skills, lifestyle balance and life management skills.

Delivering straightforward advice, Julian provides audiences with simple daily tools and strategies to turn defeats into challenges, and challenges into victories. His presentations are delivered with energy, knowledge, artistic flair and humour and he inspires and energises audiences to transform their lives.

Date and time: Monday, 19 September, registration 12.30pm. Dinner from 6.00pm
Cost: \$40 LA members, \$60 non-LA members *(Includes the symposium, dinner, drinks and guest speaker)*
Dinner only: \$30.00 including dinner and drinks.

Part proceeds from each attendee will be donated to the Keith & District Hospital.

Contact Nicola Raymond on 0439 538 332 or email info@lucerneaustralia.org.au

Visit Julian's website at www.julianburton.com.au/jbbt.htm



DEVELOPING AN IRRIGATION WORKSHOP FOR LUCERNE AUSTRALIA MEMBERS

By Michael Zerk, Irrigation Consultant and Seed Certification Officer, Rural Solutions SA

Would you like to attend an irrigation workshop? If so, attend the symposium, listen to Michael speak and let us know if you would like to find out more.

At the Lucerne Australia 2011 symposium, members will be shown aspects of irrigation system design and management that are of greatest concern both for now and into the future. Rural Solutions can develop a workshop/training course based on the most common topics/responses, which will be held at a time and location nominated by growers. Topics that may be addressed include but are not limited to:

Determining crop water requirements and irrigation scheduling:

- Strategies for managing within a volumetric water allocation
- Creating a water budget / daily water balance from weather data (ET_o – Evapotranspiration)
- Interpreting data from soil water monitoring tools

Rural Solutions SA irrigation consultants are able to tailor workshop sessions and training materials to suit your requirements, with the aim to help you improve irrigation productivity and efficiency.

Some aspects to be considered on various irrigation systems are outlined below.

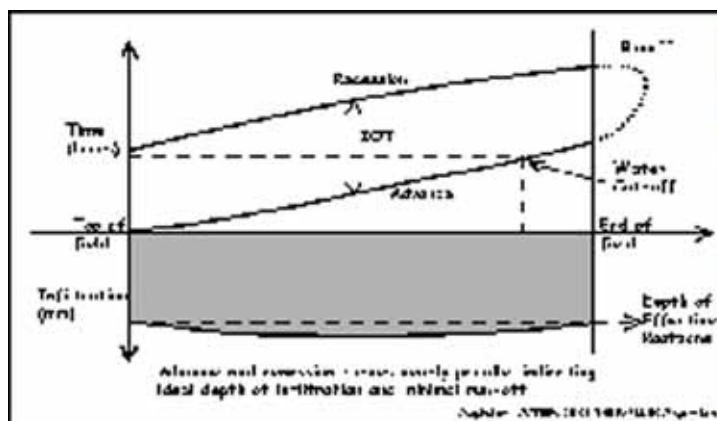
Surface irrigation systems:

- Key aspects of surface irrigation design and management that affect performance
 - Soil infiltration characteristic
 - Length of field
 - Inflow rate
 - Time to cut-off (period of irrigation)
 - Surface roughness
 - Desired depth of irrigation
 - Field slope (longitudinal)
- How these influence irrigation advance and recession trajectories and depth of irrigation
- How this determines ideal irrigation system design

Centre pivot irrigation systems

- Key component design attributes
 - Pipe diameter and operating pressure
 - Emitter / sprinkler types, selection and operation
- Planning System Capacity (mm/day) against crop water requirement
- Performance measurement and evaluation

“AT THE LUCERNE AUSTRALIA 2011 SYMPOSIUM, MEMBERS WILL BE SHOWN ASPECTS OF IRRIGATION SYSTEM DESIGN AND MANAGEMENT”



Evaluating surface irrigation using the Irrimate suite of tools

CALCULATE YOUR COST OF PRODUCTION WITH A NEW PROGRAM!

**By Warrick Thorpe
Executive Committee Member**

“What is your cost of production (COP) for your lucerne seed business?”

It appears that most growers have a reasonable idea of their figure, but it can be very difficult to collate all the information into one central point for an instant answer. To get a truly accurate picture, it needs to include more than just labour, pumping costs, fertiliser and chemicals.

“WE ARE PROUD TO SHARE THIS PROGRAM, WHICH HAS BEEN DEVELOPED SPECIFICALLY FOR THE MEMBERS OF LUCERNE AUSTRALIA”

Over the past few months, the Lucerne Australia executive committee has developed a program to determine the COP for any farming combination including flood, pivot, diesel, electricity and dryland systems. This program has recently been made available exclusively to our members to assist with business decisions. Hopefully you have received your copy along with a user manual.

It has taken time to develop. Input pages for costs and infrastructure were created with formulas to enable all scenarios in order to provide members with a result. Although the released version has been called 1.0, there were numerous draft versions developed and hours of analysis undertaken! It was an intense exercise to develop the program as the variables are endless.

The data you enter into the COP program is the most critical factor for its accuracy. To keep it as user-friendly and effortless as possible, we deliberately omitted grazing and hay enterprises as lucerne seed production doesn't need to be pursued to carry out such systems. Obviously, there are the benefits of feed and hay outside of the seed growing season but under seed production and winter cleaning, these paddocks are also lost to grazing systems. It can be difficult to factor in all enterprises but we believe this program gives a very accurate COP for our members.

It has been developed with the end-user in mind and to use it, you should put trust in it. We believe we have developed a management tool that is accessible and practical at a grass roots level.

We wish our members all the best for the coming season as winter cleaning is all but behind us. We encourage you to use your COP program to assist with your business management decisions. We are proud to share this program, which has been developed specifically for the members of Lucerne Australia who are all equally important in the success of the lucerne seed industry.

Lucerne Australia will host a COP workshop with members to better understand the program. This will be held in October. Please contact Nicola Raymond on 0439 528 332 or info@lucerneaustralia.org.au if you wish to attend.

BUSINESS SKILLS DAY SUBJECTS GENERATE DEBATE BY MEMBERS

**By Nicola Raymond
Executive Officer**

Lucerne Australia (LA) in partnership with Rabobank, held a Business Skills Day on Wednesday 22 June at the Keith Institute, to encourage members to build knowledge around the management of their enterprises.

Over 75 grower members and associates were in attendance, which featured five speakers. They covered a range of topics including Martin Hill from William Buck Chartered Accountants & Business Advisors on 'Business structures for your farm business'; Victorian dairy and beef farmer Lachlan Sutherland presenting 'An increase in profits – but not inputs?'; and Frank Young, Branch Manager for Rabobank in Adelaide presenting the relationship between personal and professional skills. Frank Young was pleased with the outcomes of the day.

“It's important that farmer members of Lucerne Australia are across their business management techniques from a personal perspective such as leadership skills, and the way this can affect how a business is run. In addition, their financial performance aspects are critical and how they manage profits in the long run. All these things combine and contribute to having the ability to run a successful enterprise,” he said.

“It's at events like this where the farming community can get together, learn some more about how their businesses can develop and catch up with a few familiar faces in a social environment”, he said.

The event was an ideal way to network, share ideas, learn more about industry developments and trends and take



L-R: Members Steve Graetz and Tim Hedges



L-R: John Bullen, Rabobank; Martin Hill, William Buck; Shayne Hovey, Landmark.

advantage of new tools and technologies, including the industry-first cost of production (COP) program exclusively for LA members, presented by Warrick Thorpe, Executive Committee Member. More information is available on page three.

The event concluded with a briefing by Paul Lynch of Hostsafeco. He highlighted O.H. & S obligations and new regulations being introduced that LA members have to meet prior to the national harmonization of O.H. & S commencing in 2012 across Australia. Paul outlined how to set-up systems, advised how they work, explained auditing procedures and outlined the new obligations for each farming business to ensure national standards are being met. More information is available on page 10.



L-R: Members Bruce Hunt, David Altus and Brandon Altus

"IT'S AT EVENTS LIKE THIS WHERE THE FARMING COMMUNITY CAN GET TOGETHER, LEARN SOME MORE ABOUT HOW THEIR BUSINESSES CAN DEVELOP AND CATCH UP WITH A FEW FAMILIAR FACES IN A SOCIAL ENVIRONMENT"

As a result of the extensive interest in this O. H. & S subject, LA will involve Paul in another event in October. If you are interested in attending, please contact Nicola on 0439 538 332 or info@lucerneaustralia.org.au



L-R: Members Tony Zacker and Glen Simpson

AGRONOMY REPORT

By Lisa Charlton, Executive Committee Member

Summer rains have given opportunity to good sub-soil moisture and good early feed on established stands for grazing has been of great benefit to graziers.

Although we have seen a lower than average May and June rainfall, we have seen good rains fall in July and August for new lucerne stands.

Again, apron seed dressing has seen stands withstand the onset of damping off. The usual weeds have certainly been an issue in new lucerne stands as well as established stands. Precise application of products such as Raptor, Broadstrike and Buttress is an absolute necessity in new stands.

Insect infestation has been steady. Red legged earth mites and lucerne flea have again been visible in low to moderate numbers. Early residual control has seen to be adequate for good control in new lucerne stands, especially in getting through the first four-to-six weeks.

Snails are continually becoming a bigger problem each year with progressively more paddocks becoming susceptible to snail damage. Baiting is repeatedly required as an ongoing snail control management in these areas.

Winter cleaning should be nearing its end. Some robust rates have been required to control significantly large weeds due to the high summer rains and early weed germination.

Please conduct follow-up paddock inspections to ensure all weeds are being 100 per cent controlled, thereby ensuring a reduction in resistance issues and moisture problems later in the season.

Let's hope the following few months are favourable for a far superior harvest.

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INDUSTRY STANDARDS FOR SEED SPROUTING

By Brett Wegener, Executive Committee Member

On the 20th of July and on behalf of Lucerne Australia, I attended a Food Standards meeting in Canberra, to discuss the development of a standard for seed sprouts in Australia.

Present at the meeting were sprout producers, retailers, seed processors, Food Standards Australia New Zealand (FSANZ), state food authorities and other representatives from government departments of health.

This was the third meeting held to determine how to overcome the likelihood of food-borne illness from consumption of sprouts, in particular E-coli and Salmonella in Lucerne (alfalfa) sprouts.

Presently there are no regulations for this and is self-regulated by sprout producers. All areas and ways to reduce these illnesses have been looked at during the three meetings.

The first option put forward was for lucerne seed producers to keep all livestock off seed producing paddocks, to eliminate any likely contamination from faeces or manure. Wild animals, birds etc would also need to be totally controlled. This was proven to be impracticable as the seed destination isn't known before seed set and would require many paddocks to be compliant, just in case the seed in any paddock is used for sprouting.

“THIS WAS THE THIRD MEETING HELD TO DETERMINE HOW TO OVERCOME THE LIKELIHOOD OF FOOD-BORNE ILLNESS FROM CONSUMPTION OF SPROUTS, IN PARTICULAR E-COLI AND SALMONELLA IN LUCERNE (ALFALFA) SPROUTS.”



Members of Food Standards visiting Lucerne Australia in 2008

Another option identified, was to instruct seed processors to decontaminate all machinery in between every lot of seed cleaned, to stop cross contamination of microorganisms. The processors would have to keep all lucerne lots for human consumption, separate.

The above options were estimated to cost the industry up to approximately \$9 million for upfront costs and up to approximately \$10 million for ongoing costs, per year.

The final option, (most likely to be adopted) is for the seed sprouters to decontaminate seed before the sprouting process begins. Traceability from paddock to table will also be targeted to ensure that the source of any future outbreak can be identified.

Hopefully, once these standards are implemented, Australian sprout producers will have an advantage in this market.

Lucerne Australia feels this is a positive outcome for the industry and hopes to see these standards fully adopted within the proposed next 18 months.



*Brett Wegener,
Executive Committee Member.*



SOUTH AUSTRALIAN APIARISTS ASSOCIATION ANNUAL CONFERENCE SUMMARY

By Lisa Charlton, Executive Committee Member

In June, Lucerne Australia received an invitation to attend the South Australian Apiarists Association (SAAA) Annual Conference. I attended on behalf of the organisation and it proved to be an intriguing and very interesting event.

The SAAA were fortunate to acquire an experienced and enthusiastic scientist, researcher, lecturer and public speaker in Dr James Ellis. James is an eccentric 33-year-old from Florida, USA, who passionately lives and breathing honey bees. He addresses audiences throughout the world on his projects.

James has conducted many extensive research works, in particular scientific projects including the small hive beetle, socio-biology, genetic resistance of honey bees to pests/diseases, varroa mite control and sub-lethal effects of chemicals on bees.

His presentation focused on the reasons for the reduction in bee numbers over a long-term period. To name a few, James went through subjects such as the environment, management, pest control within the hives, pest control in the environment, GM crops and more.

“HE IS STUDYING THE EFFECTS OF PESTICIDES ON THE GUT QUALITY OF LARVAE, WHAT PESTICIDES HAVE AN EFFECT ON GUT PRODUCTION AND THE ABILITY FOR THE LARVAE TO SURVIVE”

He wanted the SAAA audience to widen their knowledge and mind to what effects pesticides (both insecticides and herbicides) applied in the field have on larvae. His current study monitors bees foraging on pastures in paddocks where pesticides have been applied, and what affects these pesticides could have on the bee larvae in order to not damage the adult flying bee.

He is studying the effects of pesticides on the gut quality of larvae, what pesticides have an effect on gut production and the ability for the larvae to survive. He is establishing whether this affects long-term bee numbers.

The conference also included speaker Des Cannon, the Chairman of the RIRDC Honey Bee Research and Development Program, who presented findings from his recent beekeeping bicycle tour of Europe, including insights into bee sites, bee hives, bee environments and honey marketing of beekeepers who are thinking outside the square. In addition, Trevor Weatherhead gave an overview of the Apis Cerana incursion in Cairns and our local beekeeper Ben Hooper presented the findings of his recent Nuffield Farming Scholarship study.

It was a great experience to have represented Lucerne Australia members by attending this conference and network with members of the SAAA.

*Lisa Charlton,
Executive Committee Member*



CALIFORNIA LUCERNE SEED REPORT

By LA member Glen Bornt, Imperial Valley Milling Company



“THE BIGGEST INFLUENCE ON THE 2011 SEED CROP IS THE EXCEPTIONALLY HIGH HAY PRICE”

In California's Imperial Valley the Alfalfa Seed harvest is progressing and is about one half completed. Unlike the sizzling Mid West of the U.S, California temperatures during all of the spring and most of the summer have been below normal. The yields seen to date have only been average. The overall Imperial Valley acreage is down slightly from 2010 by about 1,200 acres.

A cool and windy spring slowed flowering and pollination in fields that utilized mostly cutter bees. As a result, many early fields showed yields that

were below normal and produced seed that had heavy cleaning losses. Yields have been better in the later fields that experienced higher temperatures and higher monsoonal humidity.

The biggest influence on the 2011 seed crop is the exceptionally high hay price. USD \$250/ST was about the average mid-summer price. Many farmers chose to cut hay all summer instead of making a seed crop. This primarily affected the harvest of Common Seed. Farmers who made seed as planned did so later in the summer than is usual because they took

one additional hay cut before setting their fields up for seed production.

This one additional May hay cutting produced about 2.5 ST/AC or big money for summer hay in the Desert Southwest of the U.S.

Prices remain high and foreign buyers are purchasing very cautiously. Most are covering only fall and spring positions as many expect the next Australian Crop may return the supply side to a more normal situation.



MARKET REPORTS



better seeds, better choices

Seedmark

*By Craig Myall
General Manager,
Seed Technology & Marketing Pty Ltd
Ph: 08 8234 9333*

Demand for Lucerne Seed for both the export and domestic markets remains quite strong, with supply now a major inhibiting factor.

We predicted a clean out of not only the growers and seed companies in Australia, but also the retailers domestically and clients overseas which still looks the likely outcome. After the disappointment of the most recent harvest, this is a fantastic position for our industry to begin from in 2012 when demand will again be very firm and pricing historically high. This current shortage has also cleaned up a lot of low germ lines that have been eating up valuable capital and storage room industry wide.

Slightly over 1800mt has been exported in the first half of 2011, a far cry from the 3700mt in the relating period of 2010 almost totally attributable to the current lack of supply. The major destinations for our seed continues to be Argentina (591mt), Saudi Arabia (442mt) and the USA (335mt), equating for 76 per cent of exports year to date. Whilst a large tonnage continues to move to the Middle East at present, it is unlikely that much seed will be available to trade into Argentina in the last quarter of 2011, as was done in 2010.

The current US harvest is now in full swing albeit two-three weeks later than normal. Indications are that the crop will total approximately 7000-7500mt, well down on last year's number of 10000mt. At present US companies exporting to Saudi Arabia are scrambling for new seasons seed to ship as carryover was very low from previous.

All in all the future looks good for Lucerne Seed producers and companies alike, harvest pending....



PGG Wrightson

*By Travis Munday
Ph: 0408 838 687*

Lucerne season still remains interesting. The time delay in testing results has put a lot of pressure on availability and delivery of seed for the autumn domestic sowing season.

Since the window for autumn planting closed, prices for uncertified lucerne have eased. Export demand for uncertified at the same pricing as domestic levels has been minimal coupled with the uncertainty around the American harvest.

Certified seed demand for dormancy 7-9 is still strong but comes with resistance at current price levels. Not to forget that it is only August and we still have another seven months until we are back into the start of our harvest again, and the outlook is for very minimal carryover stock by that time.

As we have reached higher prices, we have seen some traditional markets drop off; Europe, North Africa and Asia have showed little interest at current price levels.

The American harvest is looking at finishing at average levels. Grower prices are also high for the current crop and forward contract pricing for next year's harvest has still remained high which gives Australia a positive outlook that we will see strength in the certified lucerne market for next season and beyond.

"THIS CURRENT SEED SHORTAGE HAS ALSO CLEANED UP A LOT OF LOW GERM LINES THAT HAVE BEEN EATING UP VALUABLE CAPITAL AND STORAGE ROOM INDUSTRY WIDE"



NATIONAL O.H & S UPDATE

Following a presentation at the Business Skills Day By Paul Lynch, Hostsafe Co Partner

All members of Lucerne Australia need to be aware of their obligations in the workplace and their responsibilities to ensure a safe workplace for their staff and contractors with the harmonisation of the OHS sector is now only a short time away.

The starting date of national OHS law in all jurisdictions is 1 January 2012. From this time a nationally consistent approach to compliance policy and enforcement policy will be introduced to ensure consistent application across the country.

"JUST REMEMBER, YOU ARE NOW LEGALLY REQUIRED TO CREATE AND MAINTAIN A SAFE PLACE OF WORK THROUGH A "DUTY OF CARE"."

LA members must also make their own staff and contractors aware of their O.H & S obligations and that they meet compliance at work.

South Australia has started to formally begin the process of harmonising Australia's workplace laws.

The current maximum penalty is \$300,000 for a first offence. This will rise to \$3 million for a body corporate.

The harmonisation bill was initially introduced into the South Australian parliament in April this year but withdrawn for review before reintroduction in May. The bill mirrors the national harmonisation model but retains the state's unique tripartite review committee which can recommend changes to OHS legislation.

The bottom line to all this is that LA members need to be meeting compliance as a matter of law.

The starting point will be creating an OHS policy to keep in your workplace. Next step is to put in place an audit process to risk-assess the environment to enable procedures to be developed for all to follow. This becomes the cornerstone to creating an ongoing safe system of work program.

Just remember, you are now legally required to create and maintain a safe place of work through a "Duty of Care". The safe systems of work process will build a record of compliance for you to keep and improve.





Viterra becomes a member and offers complete grain and agri-products solutions

Viterra's newly opened retail depot in Bordertown serves as a regional hub for grain marketing, agronomy, crop protection, fertiliser, seed and wool products.

Viterra also offers on-farm delivery of seed and crop protection products, to provide a complete service offering to growers in the area.

Located at Brown Terrace (next to the recycling centre), the Bordertown

depot has large stocks of crop protection products and seed on hand, with flexible payment terms available for eligible growers.

Based at Bordertown, Hayden Maher Customer Relationship Manager for the South East, has a wealth of experience and local knowledge, and works directly with growers to tailor grain marketing and agri-products solutions that suit individual requirements.

To discuss how Viterra can tailor solutions for your farming operations throughout the South East, or for market leading Grain Marketing information, call Hayden Maher on 0457 881 758.

Viterra's strength is built on local investments and having employees work directly with growers. Viterra continues to strive to become growers' partner of choice, through offering products and services specifically tailored to individual needs.

NEW SKILLS DEVELOPED AT AN 'ADOPT' WORKSHOP

By Nicola Raymond, Executive Officer

Lucerne Australia was represented at the Ag-Excellence Alliance 'Adopt' workshop day at Adelaide on Friday, 8 July. There were approximately 25 attendees including Chairman Shane Oster and myself.

Jeff Kuehne (CSIRO) and Rick Llewellyn (Future Farm Industries CRC) were guest speakers launching the new ADOPT model. This program's objective is to improve the uptake of new farming practices by grain and seed growers. It includes a series of questions that assist with determining whether the new technology will be adopted. Questions included 'What proportion of target audience have minimising risk as a primary motivation?'; 'What proportion of the target population has a long-term management horizon for their farm?'; and 'How easily can the innovation be trialled on a limited basis before a decision is made to invest in full adoption?'

We were able to trial the program and provided Rick and Jeff with constructive feedback. The program is currently at the latter stages of development.

In addition, Jeff Coutts an extension officer from Toowoomba covered planning, monitoring and measuring extension projects as part of his presentation. He stressed the importance of farmers and their perception, emotion, age/farming cycle, social stress, goals, values, environment and lifestyle.

Jeff also focused on learning styles with activists (straight into doing something new), reflectors (hearing, talk to mates), generalising (discussing and making assumptions), planning (all the time is spent on planning, nothing else is achieved). All four of these learning styles need to be incorporated.

Overall the workshop was interesting and a good networking opportunity.



EXECUTIVE COMMITTEE CALLS FOR NOMINATIONS AT THE LUCERNE AUSTRALIA ANNUAL GENERAL MEETING

Lucerne Australia will conduct the 2011 Annual General Meeting at the Keith Institute on Monday, 19 September 2011 at 3.00pm.

The Lucerne Australia Executive committee is made up of five grower members and three associate members. This year four grower members' positions are up for election and two associate. The executive is seeking written nominations to fill these positions.

The current incumbent members are:

Growers:

- Simon Allen
- Charlie Hilton
- Joe Cook
- Warrick Thorpe.

Associates:

- Lisa Charlton
- Shane Oster.

Warrick Thorpe and Shane Oster are re-standing.

Charlie Hilton and Joe Cook will not be re-standing.

Simon Allen and Lisa Charlton have resigned mid-term, Lisa will re-stand.

There are six positions available four grower members and two associate.

To be elected on the Lucerne Australia executive you will need to be nominated by a current Lucerne Australia member or you can volunteer. Both the nominator and nominee are required to be members of Lucerne Australia. Please note that all nominees are required to submit a 200 word brief with this nomination form outlining who you are, what you do, where you live and what you have to offer Lucerne Australia on the executive committee.

**Closing date for Nominations: 5.00 pm
Monday 12 September 2011.**

"TO BE ELECTED ON THE
LUCERNE AUSTRALIA
EXECUTIVE YOU WILL
NEED TO BE NOMINATED
BY A CURRENT LUCERNE
AUSTRALIA MEMBER OR YOU
CAN VOLUNTEER"

Members should have received nomination forms with their Annual General Meeting notices. If you have not received a form, please contact Lucerne Australia.

If you wish to nominate, please send the form to Nicola Raymond, Executive Officer, Lucerne Australia, PO Box 505 Keith 5267 SA by Monday, 12 September.





WHAT HAPPENS TO HAY WHEN IT HEATS?

The heating of hay results in losses of dry matter, digestible nutrients and energy as a result of a complex chain of biological activities. Palatability will also decline as dust from mould spores develop. If heating continues, chemical reactions can begin, possibly leading to haystack fires due to spontaneous combustion. The hotter the hay becomes, the larger the losses in nutritive value. Research in the table below shows the extent of nutrient losses due to an increase of stack temperature. The most serious effects on feeding value are substantial losses of digestible protein and energy.

Nutrient losses caused by heating of hay		
Maximum stack temperature	Loss of digestible protein (%)	Loss of energy (%)
Up to 45°C	Nil	5-10
45° to 55°C	10-30	5-15
55° to 70°C	30-80	15-30
70° to 75°C	100	40-70

Can I bale earlier without having a detrimental effect on my hay quality?

Yes – Being able to bale your hay 1-2 days earlier will reduce losses of nutrients during the dry down period and can also be beneficial when bad weather is about to hit.

How can I bale my hay 1-2 days earlier without spoilage.

Hay Guard has successfully been used locally for this process to preserve forage quality, increase bale weight, extend bailing hours and reduce hay heating.

I have heard about acids and inoculants, why should I use Hay Guard on my Hay?

Hay Guard is an easy to use product with no mixing and will not have a detrimental effect on your equipment. Hay Guard also eliminates oxygen therefore decreasing the chance of hay heating.



Ian Schulz, 87 550 100



Mark Lourey, 0407 366 426

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Asure Quality	Jolpac Rural Supplies	Seedmark
Bordertown Pumps and Refrigeration	Kongal Seeds	Seed Genetics Australia
Clovercrest Consulting	Landmark Keith	South East Seed Exports
Cox Rural Keith	Langseeds Rural	Tatiara Seeds
Crop Monitoring Services	Lawrie & Co	Vermeeren Bros Manufacturing
Elders Keith	Naracoorte Seeds	Viterra Limited
Farmers Centre	National Australia Bank	WFI
Feedworks	PGG Wrightson Seeds	Wickham Flower
Forage Genetics International	Pinkerton, Palm, Hamlyn & Steen	Zadow Apiaries
Frank Fatchen Pty Ltd	Rabobank Australia	
Gibbs Agricultural Consulting	Riddoch Insurance Services SA	

New Members:

Bordertown Pumps and Refrigeration, Imperial Valley Milling Company, Frank Fatchen Pty Limited, Forage Genetics International, Viterra Limited, WFI

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Silver sponsor of Lucerne Australia



Pinkerton, Palm, Hamlyn & Steen

Silver sponsor of Lucerne Australia



Murray Nankivell

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