

BUNINYONG AND DISTRICT COMMUNITY NEWS INC

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buninyongnews@hotmail.com



Buninyong Men's Shed



The Buninyong Men's Shed is looking to expand with the help of the Department of Human Services and the Ballarat Council.



If you would like to become a member of our Men's Shed and enjoy the companionship of other men with like interests, please contact:

David Searl - 5334 3380 or 0410 009 000

Bill Jolly - 5341 2068 or 0414 717 507

Neville Wilson - 5341 2227 or 0427 977 513

Russell Williams - 5341 3452 or 0418 503 875



Registered Member of the Australian Men's Shed Association

The Newsletter this month celebrates **36** years
of production.

Happy Birthday Community News



STURT BUNINYONG MASONIC LODGE

Freemasons Charitable Works



During the recent Installation at Sturt Buninyong Lodge, Mr Frank Fordyce, President of the Grand Lodge Board of Benevolence presented a co-contributed cheque from the No 23 Social Committee (the charity arm of the Lodge), and the Board for \$1000 to Mr John Maloney.

A delighted co-ordinator of Ballarat's "Cops-n-Kids" program Mr Maloney accepts the cheque from Mr Fordyce. (Photo Eddie Koene)



Lodge Installations

Lodge Installations conducted by the Grand Lodge Ceremonial teams are a precision and colourful event.

Whilst Lodge installations are restricted to Freemasons, Open Investitures are often conducted to which

partners and the community are invited to attend.

Open Investitures have been conducted at the Sturt Buninyong Lodge in 2003 and 2010.

However, the Installation of Grand Master of the United Grand Lodge of Victoria conducted in Melbourne towards the end of March, is open to non-Freemasons. This is an impressive and colourful ceremony.

The Buninyong RSL hall provides a back drop to the Grand Lodge Ceremonial team as they prepare for the recent Installation Ceremony.

Freemasonry Gains Another Member

The Sturt Buninyong United Lodge initiated Mr Athan McCaw into the membership of Freemasonry during its meeting on the 22nd of June.

Brother McCaw joins a society of men whose principles make a difference to their daily lives and the communities in which they live.

These principles include the liberty of providing for the freedom of speech, impartiality and pursuit of individual excellence. Maintaining a fraternity that embraces brotherly friendship, support, respect, mutual self- improvement, honesty and integrity.

Above all building the equality of uniform thoughts, words, deeds, charitable goodwill, tolerance and kindness to others .

An increasing number of men are seeking membership and the website www.buninyongfreemasons.com is worthy of a visit.



Brian Coffey Master of the Lodge along with Brett Edgington, Bruce Bartrop Past grand Master and Athan McCaw pictured during the presentation of the new members satchel.

CWA NOTES – JULY 2013

Buninyong branch members remember fondly Shirley Rowlands who died recently. Shirley had been a loyal and enthusiastic member for more than 15 years, especially as the branch Publicity officer. Her regular contributions have been part of the Buninyong News for several years. We will miss her contribution, her interest and her friendship.

June Henderson OAM

The branch extended its warm congratulations to June on receiving this award in the recently announced Queen's Birthday Honours. June has been a member of Buninyong CWA for more than 30 years, more than half of these serving as an office bearer, she is currently minute secretary. As well June has sung in the branch choir for most of this time, and has been the Choir leader for almost 20 years. She also sings in the CWA State choir and the Ballarat District choir. June has also been an active CWA member on the committee responsible for the Buninyong Marmalade Fair, as both a successful competitor and currently serves as Vice President. The branch president Rose O'Meara presented June with flowers and the branch's best wishes.

Also at the June meeting, members received comprehensive reports on the recent State conference held in Frankston. Delegates Carole Bartlett and Marg Jarvis reported on many facets of the three days, including the presence of State patron Mrs Elizabeth Chernov, who attended as part of the State 85th celebrations. Cheques were presented to Mansfield Autism Statewide (\$12,381) and the Garvan Pancreatic Cancer network (\$21,935) (collected as the 2012 State Project and 2012 Thanksgiving Fund). There were resolutions carried concerning increased funding for country SW roads, funding for regional hospital helipads, funding to increase the minimum stay in hospital for mothers of newborn babies and legislating seat belts in school buses.

Members then enjoyed a humorous time with Christina Hindhaugh who shared some of her experiences of 'Life on the Land' Many present particularly enjoyed the version of '12 Days of Shearing'.

The July meeting on July 15 is designated International Day with the theme New Zealand- this year's country of study. The branch International Officer Judith Lukies has planned the program and members from nearby CWA branches have been invited to share in this day.

The CWA State Creative Arts exhibition will be held at the Prince of Wales Showgrounds Bendigo on Fri and Sat 12-13 July. A whole range of exhibits in both Home Industries and Handicrafts will be shown. Several Buninyong members have entered in the many sections.



BUNINYONG-Mt HELEN LIONS CLUB Inc.
P.O.Box 254, Buninyong, 3357.

June, like many other months, has been a busy time for our Lions Club. We again helped a farmer whose property was scorched in the bush fires, we helped a charity group set up for a fundraising event at Brown Hill, we held our annual Changeover night and inducted our new President for 2013-14, and on the same night inducted the foundation members of the new Alfredton-Lucas Lions Club and we cleaned up the Highway between the Mt Buninyong Road and the Cemetery.

On Monday the 10th of June eight of us went down to Wurook Station at Rokewood and pulled down at least 2 kms of fencing which had been damaged during the recent bushfires. The owner, Bruce Walton put on a BBQ lunch for us so the day wasn't all work.



From the left, Russell Williams, Lester Cheesman, John Podolinsky, Bill Dhillon & Bill Jolly - all hard at work under the watchful eye of Russell

A Little Extra

Through our regular appearance on radio station 99.9fm, (every 3rd Tuesday at 9am) we were asked if we could assist the Eureka Dancing Group. They had a function booked at the Brown Hill Community Hall to raise funds for the Ballarat Integrated Cancer Research Appeal and the

people who offered to help set up said they were unable to assist. On Saturday the 15th Lions Helen Slater, Cathy Maguire, Andy Paterson and Bill Jolly went over and helped set up the hall and made many, many sandwiches. Our assistance was greatly appreciated.

Lions Annual Changeover

This is our most formal night of the year for it is on this night that the President and Board of Directors for the coming year are inducted. The function was held at the Buninyong Football Clubrooms on Monday the 17th.

We were honoured to have as our guests Councillor Peter Innes and our District Governor Fred Jacobs with his wife Helen and Daughter. Also as guests were the 2nd Vice District Governor

Maureen Thorpe together with representatives from Lions Clubs from Mt. Bolton, Maryborough and Barham Koondrook and the Inductees from the Lions Club of Alfredton-Lucas.

Councillor Peter Innes with our 2012-13 President Lion John Podolinsky



One event which was additional to our normal agenda was the induction of the foundation members of the Alfredton-Lucas Lions Club of which our Club is the Host Club. Past District Governor Lion Graeme Lukey from our Club has been the "Guiding Lion" through the process of establishing this new club and it was his duty to perform the induction.

Lion Maureen Thorpe was the nominator of our incoming President Lion Andy Paterson when he first joined our Lions Club and it was his wish that Lion Maureen do the installation of our 2013-14 President and Board Members. The President and Secretary/Treasurer of Alfredton Lucas Club were also installed. The following members were duly installed:-

President - Buninyong Mt Helen, Lion Andy Paterson. Alfredton-Lucas Lion Scott Ferris.

Secretary - Buninyong Mt. Helen, Lion Bill Jolly. Alfredton Lucas - Lion David Hemphill.

Treasurer - Buninyong Mt Helen, Lion Barbara Voigt Alfredton Lucas - Lion David Hemphill

Other positions:- 1st Vice President, Lion Simon Jess. 2nd Vice President, Lion Keith Chapman, Membership Director, Lion David Searl, 1st year Director, Lion Mark Cannon, 2nd

year Director, Lion Cathy Maguire, Tail Twister, Lion John Podolinsky and Lion Tamer, Lion Ian Voigt.



From Left:- Lion Maureen Thorpe, Past President John Podolinsky, President Andy Paterson, Lion David Hemphill (Alfredton-Lucas) Lion Bill Jolly and President Scott Ferris (Alfredton Lucas).

Highway Clean-up

One of our regular activities is to make sure the main highway through our town is free of rubbish. On Sunday, the 23rd, eight of our members met at the Lions Shed and were joined by three members of the Buninyong CFA who volunteered to help.

We spread out along the Highway from Mt Buninyong Road to Scotchmans Lead Road and collected over twenty plastic bags of rubbish.

Our thanks go to Lion Ian Voigt who co-ordinated this event, and especially to our CFA friends without whose help the day would have been much longer.



Lions Norm Hand, President Andy Paterson with Lion Keith Chapman and our "leader" Lion Ian Voigt.

Our Lions Club.

If you are interested in knowing about our Lions Club, please go to our Web site, <http://buninyongmthelen.vic.lions.au/> or contact any of the members below.

President - Andy Paterson, Ph 0418 55 428, e-mail andrewpaterson6@bigpond.com

Secretary - Bill Jolly, Ph 5341 2068, 0414 717 507 - e-mail bandijolly@spin.net.au

Treasurer - Barbara Voigt, ph 0407 048 159, e-mail bvoigt9@gmail.com

Scrap Metal - The Lions club will pick up your old, unwanted scrap metal. This is sorted and sold, and all funds go back into our Community.

For pick up, please call Russell Williams on 5341 3452 or Bill Jolly on 5341 2068

Newspapers - We collect and sell old Newspapers, Glossy Magazines, Junk Mail etc., and again, all monies go back into the Community.

It would be appreciated if papers could be laid flat and tied into bundles. They can be collected by us or you can leave them in the green bin outside our Lions Shed in Forrest Street (next door to the Tennis Club).

PLEASE, WE DO NOT TAKE ANY CARDBOARD.

For pick up please call Bill Jolly on 5341 2068.

Book Shop open every Saturday morning in Learmonth Street next to the old bank. Great selection of second hand books including children's, travel, biographies, novels etc.

Donations of books gratefully received.



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Authorised by Damien Mantach, 104 Exhibition St, Melbourne.

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Art launches into the DIGITAL WORLD

Free information session on creating and sharing art online.

Featuring a "Virtual Viewing" exhibition of works by local artists such as
Mark Cuthbertson, Vida Pearson, Rosalind Lawson and many more.



Find out about:

- Free training opportunities.
- What the NBN will do for you and your art
- How you can get involved in the Golden Plains Online Art Exhibition.

When: Thursday 18 July, 6pm

Where: Bannockburn Cultural Centre OR Haddon Community House
to share in the launch via live "Google Hangouts".

Light supper provided at both venues

RSUP: Shannon Fielder
sfielder@gplains.vic.gov.au or
phone: 5220 7212 by July 11



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NEWS ABOUT TOWN

MEREDITH GOLF CLUB

The Golden Plains Miner 27th June 2013 page 18 featured several photographs of golfers from the Meredith Golf Club in action photos. **Mike Colvin** from Grenville was pictured at the end of his swing hoping the ball had cleared a water hazard.

STONE WALLS PLANNED FOR ENTRANCES TO BUNINYONG

The Golden Plains Miner 27th June 2013 page 8 pictured **Ian Salathiel** and **Barry Fitzgerald** from the Buninyong and District Community Association standing at one of the sites proposed for new signage to the entrances to Buninyong. The concept plan has been drawn by **David Turley** of DRT Consulting and involves sawn bluestone and rough natural stone shaped to represent Mt Buninyong. Brushed bronze lettering will be used and solar lighting will light up the signs during the night. Major funding of \$21,000 for the \$34,000 project has been granted from the State Government's Regional Growth Fund along with significant funding from the City of Ballarat, the Buninyong Community Bank and the Friends of the Buninyong Botanical Gardens. The project is expected to begin in July 2013 and be completed by October 2013.

VIETNAM WAR TUNNEL RAT

Bob Coleman was featured in a two page article in the *Ballarat Courier June 22nd 2013 page 40* describing his time during the Vietnam War when he was one of a select group known as "Tunnel Rats". Mr Coleman was a member of the Engineer Field Troops after joining the

armed forces in 1964, following in his father's footsteps who served with the New Zealand force commandos. Mr Coleman recalled his time searching through underground guerilla tunnels finding weapon dumps, briefing rooms, headquarters and even hospitals. Today he keeps contact with his fellow Rats several times a year and marches in the ANZAC Day parade.

BROCHURE FOR BUNINYONG

The Ballarat Courier June 22 2013 page 10 showed the launch of the **Buninyong Visitor Guide** by project co-ordinator **Barry Fitzgerald** from Buninyong and District Community Association, Ballarat Regional Tourism director **George Sossi** and Old Library volunteer **Frances Winnell**. The booklet was funded by Ballarat Regional Tourism and features information about historic buildings and cemeteries, food and wine options and a listing of local places to stay. The visitor guide is only one of several projects undertaken by BDCA – the others being the street vines outside the shops in Learmonth Street, the installation of plaques on the town's historic buildings and the planned construction of new entrance signage to the village.

140th ANNIVERSARY OF BUNINYONG BOWLING CLUB

Back in January of this year, forty members of the Buninyong Bowling Club dressed in Victorian era fashions and celebrated the 140th Anniversary of the club. The restrictive clothing was cause for much merriment and photographed on the day were **Ken Sergeant**, club Secretary **David Draffin**, President **Steve Albin** and **Luci Smolski**. The *Ballarat Courier January 7 2013 page 26*.

BALLARAT UNIVERSITY PROPOSES A NAME CHANGE

The letters to the editor have been thick and fast with the proposed name change for the University of Ballarat when they merge with Monash University's Gippsland campus on January 1 2014. Former Ballarat College Council chairman **Dr William Pryor** said that the name change was a poor decision and that Ballarat should feature in a new title. The University of Ballarat chancellor Dr Paul Hemming said the new name was still being negotiated, but it would reflect the university's regional focus. The Courier did an online poll and 75% of voters preferred the current name, with Ballarat University, Eureka University, Federation University, State University, Peter Lalor University, Menzies University and Bracks University all getting a few votes. The Newsletter understands that the name Federation University has been chosen. The Ballarat Courier June 19 2013, page 4.

BEGONIA FESTIVAL LAUNCH

Another article from the January papers, The *Ballarat Courier* January 24 2013 page 20 featured the launch of the Begonia Festival on board a ferry on Lake Wendouree. Enjoying the warm and sunny day were **Elizabeth Gilfillan**, Friends of the Ballarat Botanical Gardens president and **Julie Bradby**, Friends of the Ballarat Botanical Gardens secretary.

TENNIS AUSTRALIA HALL OF FAME INDUCTION

Yet another belated item from the January newspapers showed **Judy Dalton** unveiling her bronze statue at the Australian Open Tennis at Melbourne Park. The bust shows Judy as a

young competitor with a pony tail and embroidered dress that she wore at Wimbledon where she won the women's doubles twice and mixed doubles once.

Judy is Ballarat's local correspondent from Wimbledon each June and her *on the spot* articles are printed in the sports pages of the Courier. The *Ballarat Courier* January 25 2013 page 45.

ORDER OF AUSTRALIA ANNUAL LUNCHEON

During May the recipients of the Order of Australia Medals members and friends held an annual lunch at the Barkly Lodge in Ballarat. Photographed enjoying the day were previous Buninyong resident **Jenny Wickham** and **Bill Pryor**. The *Ballarat Courier* June 10 2013 page 23.

BELLY DANCING SCHOOL PROMOTION

On May 29th 2013 a belly dancing performance was held at the Ballarat Restaurant and Bar in Dana Street, Ballarat (formerly the Ballarat Club). Dancing school principal **Selena Buckingham** and Katie Allen captivated the audience with their presentation. The *Ballarat Courier* June 10 2013 page 23.

CWA MEMBER JUNE HENDERSON AWARDED ORDER OF AUSTRALIA MEDAL

Congratulations to **June Henderson** for her community participation in several clubs being recognized with an Order of Australia Medal. June has been involved with CWA since 1983 as president and vice-president and secretary and treasurer; Country Women's Association of Victoria State Choir member; Heather Club, Ballarat South (Buninyong) Uniting Church current treasurer and past president; Ballarat

General Cemeteries Trust; the Ballarat East Rotary Club Honorary Member; Meals on Wheels; Mt Helen Tennis Club founding member in 1964 and now a life member; Buninyong and District Tennis Association, treasurer and life member and very locally, a committee member for the Marmal Ashes competition. The *Ballarat Courier* June 10 2013 page 5 and *The Golden Plains Miner* June 13 2013 page 8.

“The Order of Australia relies entirely upon community initiative for submission of nominations. It is important that the honours system continues to uphold the national ethos of valuing diversity and recognizing the contributions made by citizens to Australian cultural and social life, regardless of background.” Air Chief Marshal Angus Houston AC AFC (Ret’d), Chair of the Council of the Order.

BIODIVERSITY ACROSS THE BORDERS CONFERENCE

On June 7 the University of Ballarat Mt Helen campus held a Biodiversity conference. **Suzanne Nunn** from Deakin University was one of the participants. The *Ballarat Courier* June 11 2013 page 23.

VICTORIA’S GROUNDWATER RESOURCES MAPPED

A unique project aimed at digitally visualizing Victoria’s groundwater resource has won the University of Ballarat a state award. Visualising Victoria’s Groundwater (VVG) project has been named the winner of the Victorian iAward for

the regional category. The university will compete against all Australian state and territory winners for the national Regional iAward on August 8.

The project’s lead researcher, **Dr Peter Dahlhaus**, along with technology lead Andrew MacLeod, said the \$2.23 million project was important for the management of a resource that may become scarce. Groundwater is used for town water supply and supports environmental assets like lakes, wetland and rivers so the correct management of groundwater is very important. Dr Dahlhaus said the initiative could only be possible with high-speed broadband that captures, aggregates and spatially depicts Victoria’s groundwater systems.

BALLARAT ANTIQUE FAIR

The Ballarat Antique Fair held at the Ballarat Badminton Stadium on the long weekend in March had a local stallholder, **Sandra Kelly**, from Bowerbird Cottage (opposite the Buninyong Cemetery). Sandra was photographed with a doll’s house as part of her display. The *Ballarat Courier* March 12 2013 page 24.

ROTARY GOLF DAY

The *Ballarat Courier* June 14 2013 page 25 had a full page of players for the Rotary Golf Day at Ballarat Golf Club. **Gerard McCarty** represented Team Heinz and Partners on the day.

Hatha Yoga

Start your week off with Yoga!

Mondays at 10-11:15am

Did you know yoga improves:

*strength & flexibility & balance

*ability to focus

*fitness *energy levels *posture

*ability to relax *reduces stress &

tension in form & mind

@ Buninyong Golf Club

\$12 per class

Please contact Karen to

secure a place

PH:0405 677 223 or

karenmcfetridge@hotmail.com

The **Friends of Royal Park** have recently had several people take up a plot in the community garden but there are still plenty available.

If you are interested please go to

www.friendsofroyalpark.org.au

The Buninyong and District Community News Inc is compiled monthly from contributed articles and is funded by donations. The contents of the Buninyong and District Community News Inc might not necessarily reflect the opinions of the committee. All work associated with the production of the newsletter is done on a voluntary basis.

Cancer Council Daffodil Day

Friday 23rd August, 2013

9am – 5pm outside

Foodworks Supermarket

Volunteers Welcome

Helen Stephens

Site Coordinator



BUNINYONG BAPTIST CHURCH



Meet some friendly faces at
**10am Sunday mornings at the
Buninyong Town Hall**

**Any Enquiries – Pastor Tom Buscombe 5330
2657**

***You will be surprised and delighted by the
welcome***

**Receipts to Buninyong Newsletter received
with thanks**

L Allan

\$48.00

117 STURT



THE AUDIENCE

A new play by
PETER MORGAN

The Queen Comes to Ballarat
Hellen Mirren in her award winning
role as the Queen in The National
Theatre's live production.

Friday 19th July 7.30pm

Tickets from Majestix Box Office or
at the door
Ballarat Mechanics' Institute

Adults \$28 Conc & BMI members
\$24

117 STURT

MINERVA SPACE CABARET / CINEMA

LICENCED BAR



12TH JULY 2013



Live Jazz

\$12.50 Bookings @

<http://ballarat.com.au/wp/>

**Bar opens 6.00pm – Show
7.00pm**



Neil Cameron

Graduated from the Melbourne University of Agricultural Science in 1951 with, as Neil puts it, “the odd honour”.

He became a livestock farmer in 1952 and for over the last two decades has been exporting cheeses half way round the world from his Meredith Sheep and Goat Dairy.

Neil has been very involved in his community by standing as a councillor on the Bannockburn Shire and sitting on various conservation committees. He has also supported the Woodburn Creek School and the Geelong College as secretary for one and president for the other.

Being a scientist has not prevented Neil from pursuing theological beliefs and as such has been an elder with the Uniting Church since 1956 as he states “struggling to bring the church into the 19th century”.

All in all a very interesting and knowledgeable man who is certainly not hesitant to state what he believes and he does believe that our planet is warming since reading, [Greenhouse : planning for climate change / edited by G.I. Pearman](#)

CSIRO. Division of Atmospheric Research [Conference Proceedings : 2 versions : 1988]

Keywords: Greenhouse effect, Atmospheric - Australia - Congresses.; Australia.; Climatic changes - Australia – Congresses

Twenty four years ago, Neil was made aware that the very delicate balance of our planet is being disturbed by human activity.

Neil has presented his logical and indisputable findings in 4 articles ;

- (1) It has rained in Antarctica
- (2) Burning of Fossil Fuels: the Logical Connection with the rise in Atmospheric Carbon Dioxide.
- (3) Carbon Dioxide and Global Temperature
- (4) Earth’s Energy Balance and the concept of “Greenhouse”.

It Has Rained in Antarctica! *By Neil Cameron*

Our Globe is Warming (The Environment says so, and the Logic says so too!)

It never did rain in Antarctica, in Mawson’ day, 100 years ago. Neither he nor the other Antarctic explorers of the heroic age—Shackleton, Scott and Amundsen— reported it. It never did rain then; but it has and it does occasionally now along the Antarctic coast in high summer, and the penguins don’t like it. At the “other end” of the globe, in 1895, other adventurers , Fridjof Nansen and Hjalmar Johansen had already failed in their attempt to walk to the North Pole from their ship, the deliberately ice-bound *Fram*. They were thwarted at 86° North by enormous ice pressure ridges, plus the southerly drift of the ice on which they were walking north. A century later, it is becoming almost common place for individuals to walk to the North Pole, equipped with immersion gear and kayaks to cross the open- water leads. The Arctic ice has become thinner in winter, and its

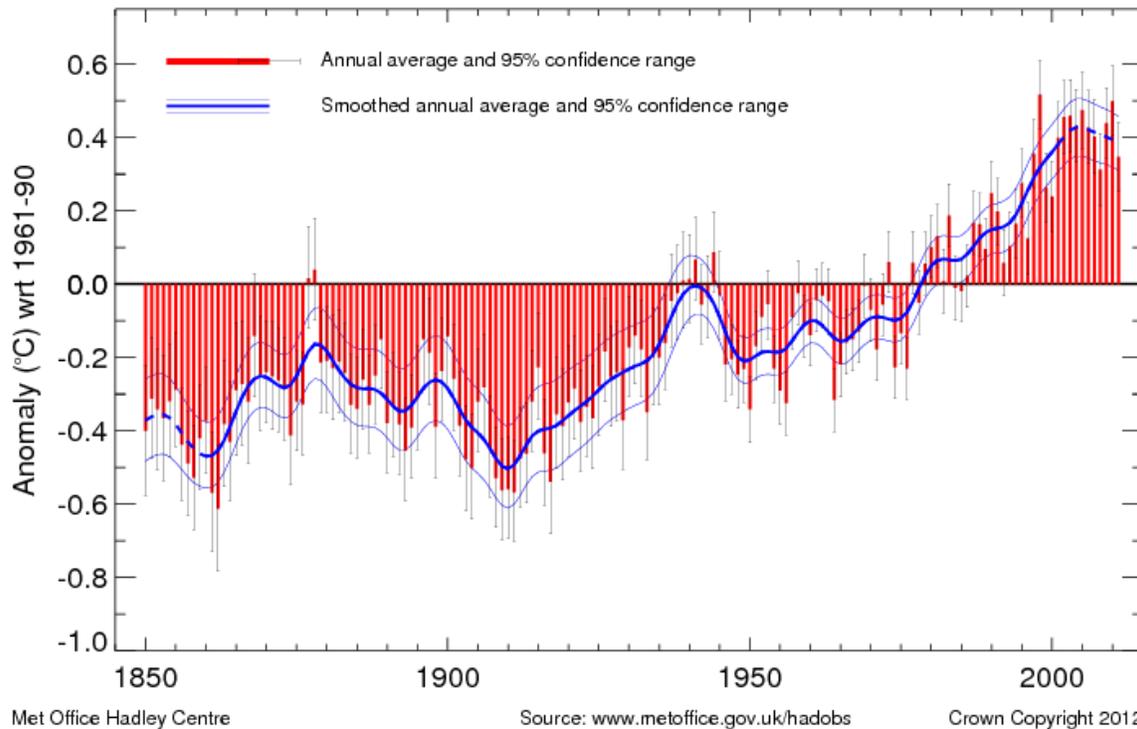
summer extent has reduced by 40%. In the South, the Antarctic Peninsula has warmed by several degrees Celsius, and several of its fringing, floating ice shelves have disintegrated over the last decade.

Over the intervening century, between then and now, in the inhabited latitudes between the poles, comprehensive instrumental readings show the near surface temperatures of land and ocean to have risen by three quarters of a degree Celsius (0.75°C.) That may not seem much compared to diurnal temperature ranges of 10-20° Celsius being our common experience; but it has been enough to upset the balance of Nature.



Global average temperature 1850-2011

Based on Brohan et al. 2006



The red bars show the global annual average near-surface temperature anomalies from 1850 to 2009. The error bars show the 95% uncertainty range on the annual averages. The thick blue line shows the annual values after smoothing with a 21 point binomial filter. The dashed portion of the smoothed line indicates where it is influenced by the treatment of the end points. The thin blue lines show the 95% uncertainty on the smoothed curve. Data are from the HadCRUT3 dataset. Annual Data and smoothed data are available in this format.

Fig1. Combined land-surface air temperature and sea-surface temperature

Figure 1 (above); "HadCRUT" temperature anomalies 1850-2010, with reference to the 1961-1990 mean (Reproduced by courtesy of the UK 'Open Government Licence'. The series to 2011 is only available for private or scientific study; so the 0.12 fall in temperature observed in 2011, nor the recovery in 2012, are not shown)

Our globe is warming!

Or is it? Perhaps all of the above is pure fantasy, dreamed up by the control freaks of the lunatic "Left", and supported by climate scientists whose sole motivation is to keep their jobs.

No and Yes.

No! It is not fantasy. Yes! The globe is warming, and the cause is human activity.

The logic, as set out below, says that we, the world community, cannot inject huge quantities of carbon dioxide (CO²) into the atmosphere, principally by the burning of fossil fuels, without causing our Globe to warm. Can we deny the logic, or are we guilty of fossilised thinking?

So; the story begins with the atmosphere and its dramatically rising carbon dioxide content.

Atmospheric Carbon Dioxide and Global temperature.

Historically, as well as logically, global temperature is inextricably linked to the level of atmospheric carbon dioxide. For the last ten thousand years, our Earth has enjoyed a period of relatively benign and stable temperatures referred to as an *inter-glacial*; also known geologically as *the Holocene Period*. Associated with that stable temperature, and the cause of it, there was, over the *Holocene*, a similarly stable content of carbon dioxide in the atmosphere—between 260 and 280 parts per million as measured by volume (ppm).

For times prior to the establishment of monitoring stations on Mauna Loa Hawaii in 1958 and Cape Grim, Tasmania in 1976, (also Baring Head in New Zealand, and subsequently many stations), the varying composition of the atmosphere over time is measured from air trapped in Antarctic and Greenland ice-cores. Isotopic fractions of various elements in both the trapped air and the ice itself enable the temperature at the time of deposition to be inferred as well. Antarctic ice-core data make it likely that over the last six hundred and fifty thousand years (650,000 yrs), the atmospheric carbon dioxide content has varied between 180 during periods of glaciation, to no more than 300ppm during the four other *inter-glacials* which occurred over that time-span. At no time did it approach present levels.

(It is unclear whether the low carbon dioxide levels during glacial periods is the cause thereof, or the result. Cold water is able to hold more of it, lowering the air/water equilibrium; but the low CO² levels would force the temperature lower, too. Ice-core data from the Russian *Vostok* base in inland Antarctica show the temperature there during periods of glaciation to have been 8°C lower than at the same location during the present *inter-glacial*.)

As said above, during the present *interglacial*, the level of atmospheric CO² has been not less than 260ppm, nor higher than 280ppm, implying a state of comparative equilibrium. The present level of 394ppm is therefore quite extraordinary, as is the rate of rise—2ppm annually.

The annual rate of increase is rising. For the first 220 years of the industrial era to 1970, the annual increase averaged 0.20ppm. For the thirty year period 1971 to 2000 the average rate of increase had risen to 1.3ppm per year, and in the decade 2001-2010 the annual rise at Cape Grim and at Mauna Loa was 2.0ppm, or ten times the rate of rise for the first 220 years of industrialisation. Arguing to absurdity, if that 2ppm rate of rise had been consistent over previous time, then the atmospheric content in 1815 would have been zero, and the Duke of Wellington would not have defeated Napoleon at Waterloo, for there would have been no green plants, and in fact no life on earth at all. Obviously, that is an absurd proposition; so the alternative must be true - that the rate of atmospheric carbon dioxide increase must have risen.

Although the Industrial Revolution began nominally in 1750, it is just 250 years since James Watt invented the steam engine in 1763. Since then coal has been increasingly used as an energy source. The petroleum era, its beginning marked perhaps by the conversion of lighthouses from burning whale oil to burning kerosene, only began about 125 years ago (and already there is worry about “peak oil”). The use of natural gas has only become widespread in the last sixty or so years. To get our time-scales in perspective, the coal that we are wont to mine in Queensland and New South Wales dates from the *Permian Period*, over 250 **million** years before the present.

All living things respire, ‘burning’ carbonaceous materials to gain the energy they require, and emitting carbon dioxide (CO²) into the atmosphere. The stability of its content in the atmosphere during the *Holocene*, prior to 1750, implies that the rate of those emissions must then have been closely matched by the rate of CO² uptake through photosynthesis i.e. by chlorophyll containing green plants, algae and bacteria. Huge amounts (about 120 gigatons) of CO² are thus respired and taken up again annually; but the result, until the advent of the Industrial Revolution, had been a virtual equilibrium between the two processes. That equilibrium has been upset by the burning of fossil fuels, notably coal, and other human activities, such as land use changes and cement production.



BUNINET



Computer and high speed cable Internet access is available for anyone in the community Uniting Church Hall, Learmonth Street, Buninyong
Phone: 5341 3515 Email: buninet@gmail.com

The hours of operation are Monday 10am to 12 noon, or other community use by arrangement.

ABC Open has run some courses at BUNINET recently, so keep your eye out for more interesting projects on <http://open.abc.net.au/projects>

See our results for Snapped: Winter
<http://open.abc.net.au/projects/snapped-winter-08mz1ir/contributions/places/buninyong+vic>

Web Savvy? Volunteer! We'd love to have you help. We are looking to offer more internet help to the people of Buninyong, so if you have computer skills with images, cameras, Facebook, Twitter, Security, Microsoft or MAC, please email buninet@gmail.com to volunteer your services and skills to the Buninyong community!

BUNINET is totally non-profit and operates solely for the benefit of the Buninyong community
New Joomla 2.5 style web site at
<http://buninet.buninyongwebservices.com.au>



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From 6pm
at the Golf Club
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Association and Butler Chartered Accountants
Pty Ltd

Gavin Drew Phone: 5331 4947
Enquiries Mobile: 0407 931 595

Buninyong Information Centre

(Old Library)

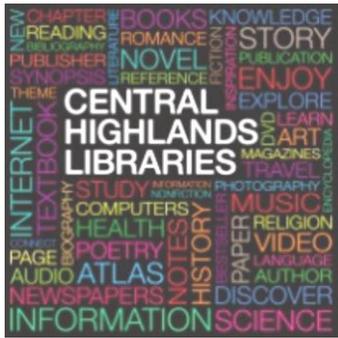
Open: 10am – 3pm

Tuesday - Sunday

Copy for the next issue should be submitted to Ann Gooding, 626 Eyre Street, Buninyong. Ph 5341 3820
by **5pm Friday 2nd August, 2013**. News items can now be forwarded to the Newsletter at the following e-mail address:

buninyongnews@hotmail.com

Please note: Karen Hulston (Ph 53413 947) will acknowledge that your email has been received.



The City of has introduced a new Library outreach service to replace the previous mobile library.

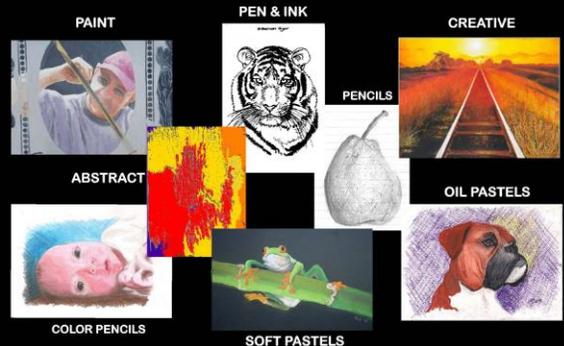
The new service is being held each Saturday from 9:30am – 12:30pm at the Uniting Church Hall, Learmonth Street, Buninyong.

We have a wonderful collection of library resources including books, magazines, DVD's, e-Audio and e-Books. New members are most welcome.

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Federal Member for Ballarat



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I would also love to know what you think are the most crucial and important issues facing our community. And of course I am keen to be as available to you as possible."

Geoff Howard MP
State Member for Ballarat East



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Email: geoff.howard@parliament.vic.gov.au

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