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Meeting Apology

Please use the club website before 3pm on meeting day to apologise or add a guest or you will be required to reimburse the club for your meal cost.

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Trivia Night

Our club will be holding a Trivia night at the Warrawee Bowling Club on 21 May. Please get your team together.

Resignation

With regret we received a resignation from Rebecca Fletcher. Rebecca has resigned due to health reasons and hopes to return in the future. Rebecca was to become treasurer 2011 2012

Treasurer 2011 2012

Michael advised we had an unexpected vacancy for the position treasurer 2011 2012. Not surprisingly there was not a clamor to accept the opportunity.

Tony McClelland accepted the position provided

- We become 100% electronic, i.e. all payments are made with 2 electronic signatures (no cheques)
- We will need to transfer to a bank that provides dual signature electronic payments.
- A standard Remittance advise will reside on our WEB, when a member makes a claim they should download and complete the form and email it with scanned invoice or receipts to the treasurer for payment,
- All receipts, members payments etc, are to be bank transfer (no cheques). If you don't use electronic transfer you can take a cheque to your bank and ask them to transfer it for you. Cash will be accepted by the door team.
- Cheques now account for approximately 3% of banking transactions and their elimination by our club saves significant time for the treasurer.

Bowelscan

Michael Midlam has distributed 450 Bowelscan kits and an amazing 404 have been returned.

Good job well done Michael.

Guests

President Michael welcomed Joyce Cribb, Eunice Price and for the first time David Johnson

David



Membership Awareness Day

We plan 2 more membership awareness days before June 3 and welcome the participation of members

Guest Speaker Bob Ivey

Once again the excellence of our club members when speaking was highlighted. Bob prepared and presented an interesting overview of the 3 Gorges Dam.

3 GORGES DAM - SPEAKING NOTES

INTRO (SLIDE MAP)

- On Oct 2010, we swapped our time share in QLD for a tour of China.
 - Included 4 day cruise on the Yangtze, with a conducted tour of the 3 Gorges Dam, before our ship passed through the locks.
 - Over the 4 days we cruised from Yichang to Chongqing
 - The Dam took 15 yrs to build and became fully functional in 2009
 - It formed a lake 660 km long – to about Chongqing
 - 2 million people displaced
 - The dam has been a controversial subject both in China & overseas – it's claimed to cause landslides, has altered entire eco systems & has caused other serious environmental problems.
- NOTE Wuhan – a city of about 8m people – will mention again shortly

SLIDE 2 – DAM WALL

Two long buildings at the base of the dam are the power generator plants

SLIDE 3 – AERIAL PHOTO

Note the dam on the left – a canal in the centre leading to a huge ship elevator and a four-level lock system on the right – more later

SLIDE 4 – TEXT: WORLD'S LARGEST DAM

Of interest is the fact that the 175 depth appears to extend for most of the 660 km length of the lake

SLIDE 5 – MODEL

Again, dam on left, ship lift centre, locks on right.
Visitors Centre and lookout in the park area left of the locks. The park by the way used to be a mountain – removed.

Ship Lift

The ship lift (in the centre) is designed to be capable of lifting ships of up to 3,000 tons. The vertical distance traveled will be 113 metres, and the size of the ship lift's basin will be 120 x 18 x 3.5 metres. Will take 30 to 40 minutes to transit, as opposed to the three to four hours for stepping through the locks. Completion due in 2014
An important function of the dam is to **control flooding**, which is a major problem for the seasonal river of the Yangtze. Millions of people live downstream of the dam, with many large, important cities. In 1954 the river flooded forcing 18,884,000 people to move. The flood covered **Wuhan**, a city of eight million people, for over three months.

continued

SLIDE 6 – text: WHY?

The dam discharges its reservoir during the dry season between December and March every year. This increases the flow rate of the river downstream during the dry, and provides fresh water for agricultural and industrial usage. During the dry period, discharges allow the water level upstream to drop from 175 m deep to 145 m, preparing for the rainy season. It also improved shipping capacity six fold.

Design-maximum reservoir water level of 175 m was reached on 26 October 2010 (Gwen and I were there just a couple of weeks before)

SLIDE 7 – PHOTO POWER LINES

It is the world's largest capacity hydroelectric power station.

It reduces coal consumption by 31 million tonnes per year, avoiding 100 million tonnes of greenhouse gas emissions, millions of tonnes of dust, one million tonnes of sulfur dioxide, 370,000 tonnes of nitric oxide, 10,000 tonnes of carbon monoxide, and a significant amount of mercury.

SLIDE 8 – text: POWER GENERATION

Hydropower also saves the energy needed to mine, wash, and transport the coal from northern China.

As big as it is – it still only produces less than 3% of China's power

SLIDE 9 – photo: SHIPPING

It Improved Shipping & Freight Capacity. Before the construction of the dam, the gorges squeezed the river in places to less than a 100m wide **funnel**, with a water flow of up to 25 km/hr.

SLIDE 10 – photo: steep gorge

An example of how steep the hills are – notice the current, and the water depth in the main river is 175 metres

SLIDE 11 – PHOTO: Environment Issue – floating rubbish

A number of issues effect the environment and ecology of the reservoir area and the Yangtze River. The biggest concern is the pollution of the reservoir.

SLIDE 12 – PHOTO: floating rubbish 2 – note the new road on hillside

SLIDE 13 – PHOTO: rubbish collection - 1

Notice the booms to funnel the rubbish

SLIDE 14 – PHOTO: rubbish collection - 2

They make methane gas out of it

Guest Speaker Bob Ivey

SLIDE 15 – TEXT - Environment Issues

Quote from *'World's Water Magazine 2008-09'*: In September 2007, Chinese officials "admitted the Three Gorges Dam project has caused an array of ecological ills, including more frequent landslides and pollution,

And:

"The complex and massive effort to relocate millions of displaced and affected people has also caused a range of social, political, and economic problems."

And:

"Among the consequences of the drop in sediment being carried downstream, are growing coastal erosion and a change in the ecological characteristics and productivity of the East China Sea."

SLIDE 16 – PHOTO: Shanghai Erosion and sedimentation

The Yangtze carries about 40 million tons of sediment annually. The absence of silt downstream has two effects:

Some hydrologists expect downstream riverbanks to become more **vulnerable to flooding**.

The city of Shanghai, 1,609 km away, rests on a massive sedimentary plain. The "arriving silt—so long as it does arrive—**strengthens the bed on which Shanghai is built**... the less the tonnage of arriving sediment the more vulnerable is this biggest of Chinese cities to inundation.

SLIDE 17 – TEXT: Environmental Controversy

It is inevitable that a project this large is not without controversy. More than 100 archeological sites, some dating back over 12,000 years, were flooded.

SLIDE 18 – PHOTO: Shanghai 2

Another shot of Shanghai

SLIDE 19 – PHOTO: Shanghai 3

Shanghai – notice the river winding away to its mouth in the distance.

The jury is still out on the impact the dam may have on **fisheries**. The Yangtze basin has 36 percent of all freshwater fish species in China, with more than 360 fish species

SLIDE 19 – PHOTO: Shanghai 4

Enough of the depressing news

SLIDE 20 – PHOTO: Automated light rail train under Yangtze

SLIDE 21 – photo TOURIST SHIPS

The 3 Gorges offer some of the most scenic landscape anywhere in the world and have long been a destination for tourists from around the world.

SLIDE 22 – PHOTO – LOCKS

The Locks. Left side – downstream traffic – Right for upstream. Takes 4 ½ hours to pass through the four locks – rising 175 metres.

Continued

SLIDE 23 – text– SHIP LOCKS

Shipping is now safer, since previously the gorges were notoriously dangerous to navigate. (25km/hr current at times).

SLIDE 24 – PHOTO: SHIP LOCKS

Ships with much deeper draft are able to navigate 2,400 km upstream from Shanghai. The ships you can see on the left are heading downstream

SLIDE 25 – PHOTO: SHIP LOCK

Looking upstream. The barges loaded with yellow stuff are in Lock 3 of 4

The freight capacity of the river increased six times and the cost of shipping was reduced by 25%

SLIDE 26 – PHOTO: ENTERING LOCK 1 - start of a 175 metre rise.

SLIDE 27 – PHOTO: BRIDGE

Bridges. With the river level rising 175 metres for 660 km, (and this photo is taken on one of the 50 tributaries), you can only imagine how many new bridges had to be built

SLIDE 28 – PHOTO: Village - A town re-built on higher ground – one of the 116 towns and 1,350 villages re-built.

Local Economy. More than 50 tributaries flow into the Yangtze River from either side. The total reservoir shoreline length of both the main Yangtze River and its tributaries into the lake is 5,300 km.

SLIDE 29 – PHOTO: Coal Mine

A local coal mine – note the shutes used to load the coal on to barges

SLIDE 30 – PHOTO: DANING RIVER

One of these tributaries is the **Daning River**, where for many years locals made a living by taking tourists in smaller boats 3 or 4 km up the river to see the cliffs, monkeys, and ancient coffins in open caves high up the cliffs. In low water had to drag the boats with ropes.

SLIDE 31 – PHOTO: LOOK AT ME NOW!

Outboard motors now - no more dragging with ropes

SLIDE 32 – PHOTO – TOURIST SMALL BOAT

SLIDE 33 – PHOTO: TOURIST PATH

The tourist path used to be 175m lower & follow the river bank, so they are in the process of building a path for tourists along the cliff (8 slides)

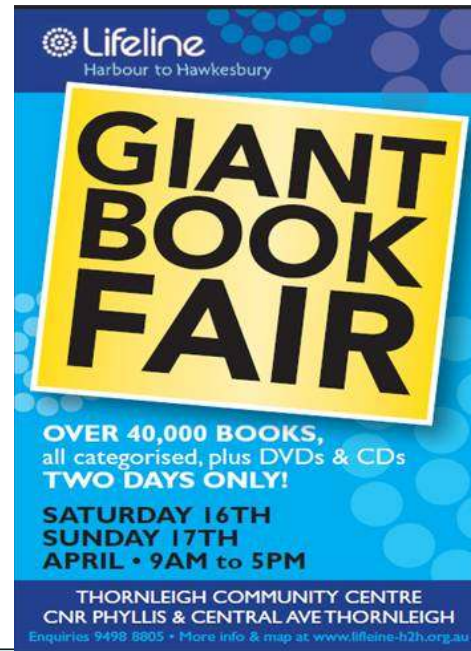
SLIDE 34 – PHOTO: TOURIST PATH

SLIDE 38 – PHOTO: coffin in cave

Bob Ivey



Lifeline



Rotary Foundation Thought for The Week

37) This week's Rotary Foundation Thought is about Polio Eradication.

RI President Ray Klinginsmith rang the closing bell * at the New York Stock Exchange on 23 February 2011 during a ceremony with representatives from Rotary and Sanofi Pasteur, a leading provider of polio vaccine, in honor of Rotary's 106th anniversary and in support of a polio-free world.

Representatives of the two organizations will also take part in opening bell ceremonies in four financial markets in Europe that day: Lisbon, Portugal; Amsterdam; Brussels, Belgium; and Paris.

That evening, the New York Stock Exchange Building provided a dramatic backdrop for an equally dramatic message: End Polio Now, projected onto the building. Grammy Award-winning singer Angélique Kidjo, a participant in Rotary's "This Close" polio awareness campaign, attended the lighting. Other landmarks around the world were illuminated during the week of 23 February in support of Rotary's pledge to rid the world of this crippling childhood disease.

* PE Prof Martin Silink of the Rotary Club of Lane Cove rang the closing bell of the New York Stock Exchange a few years ago in his role as President of the International Diabetes Federation to celebrate their success in getting the UN to declare a World Diabetes Day. Have any other Australian Rotarians closed the NYSE?

Rotary Acronyms

PACE	Pacific-Australia Cultural Exchange
PAG	Past Assistant Governor
PAL	Promote Adult Literacy
PDG	Past District Governor
PE	President-Elect
PEDS	Presidents Elect Designates Seminar

Apologies & Guests

Members are booked in to attend every regular meeting of the Club, if you cannot attend a meeting or wish to book in a guest / partner please access the WEB at <http://www.kuringgairotary.org.au> before 3.00pm on the day of the meeting. An apology for future meetings may also be entered. If you do not apologise for non-attendance the Club must pay for your meal and you will be asked to reimburse the Club.

Guest Speakers

See club website: "Member Forum - Events" for whole year listing of events

11 April	Pride of Workmanship
18 Apr	TBA
25 Apr	Anzac Day / Easter Monday - no meeting
16 May	Carers Night
23 May	Garden Festival—Report and Brainstorm
13 Jun	Queen's Birthday holiday—no meeting
Mon 27 Jun	Changeover Dinner, Rotary Club of Ku-ring-gai
19 Sep	District Governor's visit

Market roster

Time	8 May	12 Jun
Banners	White, Frank	White, Frank
Signs	Timms, Graham Hungerford, Geoff	Timms, Graham Hungerford, Geoff
Morning Set up	White, Frank Thompson, John	White, Frank Thompson, John
0800 – 1030	Aitken, John Ivey, Bob	Fletcher, Howard Krishnan, Bala
1030 – 1300	Coenen, Lou Andrejewskis, Rasma	Evans, Emyr Midlam, Michael
1300 – 1530	Desmarchelier, Roger Kennedy, Irene	Egan, Ross Forsythe, David

MARKET DUTIES: You must initiate changes & advise Geoff Hungerford. Third Shift returns signs & bins to St George Bank

Door team

Duty	April	May	June
Greeter	Eleanor File-wood	John Aitken	Emyr Evans
Team	Michael Midlam	Bala Krishnan	Rebecca Fletcher
Team	Joy Newling	Greg Newling	Geoff Hungerford

NOTE: The door team is responsible for welcoming visitors and guests, recording payments and issuing copies of the record to the President, Secretary and Bulletin Editor. Please arrange your own replacement.

Happy days April 2011

Birthdays		Anniversaries	
Skellet Patricia	2-Apr	Tom & Laurel Jackson	6-Apr
Frank White	5-Apr	Greg & Joy Newling	29-Apr
Roger Desmarchelier	5-Apr		
Emyr Evans	7-Apr		
Timms Judy	9-Apr		
Jackson Laurel	8-Apr		
Geoff Hungerford	18-Apr		
Malcolm Braid	30-Apr		