



Local in Action, Global in Vision.



Notify your attendance or apology (by Sunday 5pm) to Steve Jenkins ph 478 8467 or email jenkins@kiwilink.co.nz

The Club normally meets Monday at Pupuke Golf Club, 231 East Coast Rd, Mairangi Bay.



This month's Rotary District 9910 area of focus is

**Next meeting
6 for 6.30 pm
22 July
Partners' Night**

**Normal meal price.
Guests \$20
Please let Steve know of any guests.**

**Dr Hasan Bhalla
Superbugs and
Antibiotics**

President Jennifer. Monday's meeting offered a glimpse into two completely different, fascinating projects. I wasn't in Rotary when our club offered some support towards a school library and dormitory at the KAASO project in 2010. We were visited on Monday by Dominic and Rose Mukwaya, the founders of the KAASO project which set out to provide good quality education to orphans and disadvantaged children in Kabira, Uganda. They are on a short visit to NZ and were accompanied by Emma Outteridge who spoke to our club in 2010 and has been a volunteer in Uganda for a period every year since 2009 with the exception of last year. Dominic and Rose started a small school in Kabira for disadvantaged children, which rapidly grew till now it has 600 primary school students, many of them boarders. But it doesn't stop there - they have developed a whole community support and enrichment network with adult literacy classes, micro loans, a piggery and poultry farm (to feed students and raise income), beekeeping, forestry, veggie gardens, mentoring for finance, health, nutrition and childcare. The motto - "It takes a village to educate a child ... and ... it takes a school to educate a village". Emma has been a major force as volunteer coordinator and also arranging the Kiwi Sponsorships programme to sponsor children to secondary and tertiary education. What an inspiring threesome! What an example of how much good each person can do. Check out their website at : www.kaaso-uganda.org to be fully inspired. Following that our main speaker, Ebi Hussain described his citizen science endeavour - Project Baseline Lake Pupuke. He runs this in his spare time (his day job is with the Auckland Council as a fresh water scientist) - investigating the yearly cycles and water quality of Lake Pupuke. We learnt some fascinating information about this beautiful lake right on our back doorstep - apparently unique in NZ and unusual even by international standards. Ebi is collecting data never investigated before in an attempt to discover how the lake functions and how to prevent algal blooms and improve the quality of the lake ecology. As a keen diver he is thoroughly enjoying himself in the process. Another inspiring person around us!

	22 July	29 July	5 August	12 August
	Dr Hasan Bhalla Superbugs and Antibiotics Partners Night	Matthew McLeod Membership Challenges	Club Meeting Committee Meetings	Our 2019/20 IYE Student from Taiwan. Yee Hsien
Invocation	Bruce Dunlop	Carol Caulfield	Lynette Miller	Barry McLean
Reception	Monica Webb	Lynette Miller	Fay Norman	Therese Leslie
Attendance	Steve Jenkins	Steve Jenkins	Steve Jenkins	Steve Jenkins
Cash Desk	Paul Asquith			
Fellowship	Ian Collard	Ian Collard	Ian Collard	Paul Asquith
	Warwick Moulton	Warwick Moulton	Warwick Moulton	Warwick Moulton
	Amanda Chambers	Amanda Chambers	Amanda Chambers	Sue Yi
Stewards	Warren Patterson	Jim Mayo	Jim Mayo	Alan Astrop
	Steve Goeldner	Bruce Dunlop	Alistair New	Dave Pennycuick
	Alan Astrop	Barry McLean	Graham Rice	Steve Goeldner
3 Min. Talk			John Shadbolt	
Intro. Speaker	Jennifer Needs	Sean Harris		Warren Patterson
Thank Speaker	Fay Norman	Gary Morgan		Bernie Woods
Parting Thought	Alan Astrop	Bruce Dunlop	Carol Caulfield	Stephen Wheeler
If you cannot carry out your allocated duty, it is your responsibility to arrange for someone else to do that duty				
Darius has now returned home E-mail: darius.lehmann@stud.kszh.ch				

Next week – Partners’ Night- 6 for 6.30 normal meal price. Let Steve know of any guests.

Warwick gave an impassioned address about the wine available.

Our incoming exchange student **Yee Hsien** arrives from Taiwan this week. He is the first from Taiwan to come to our district.

Emma Outridge has been a volunteer at Kaaso School every year for 10 years. This Club led by Barry Perrow raised funds towards a library and a dormitory after another volunteer Cherie spoke at the club. Emma introduced Dominic and Rose who run the school. Dominic comes from a large family and grew up with his grandfather. He worked while going to school and studying to be a teacher. He returned to his local area which was badly hit by HIV/AIDS. He and Rose started a small school in Kaaso with 12 students nine of whom were orphans. A month later they had 29 and 49 by the end of the year. 10 years later they have 650 children. They thanked Rotary including this club for providing volunteers and support for the library and dormitory. They now work with the local Rotary and many volunteers. They now have 52 staff but continue to find their own food. There were many widows in the area so they formed a support group which has been very successful. They thanked Rotary again and said it was amazing what working as a group, as a community and as a village can do. They thanked Jane Hunter and Barry Perrow (both previous members of the club) for their support.





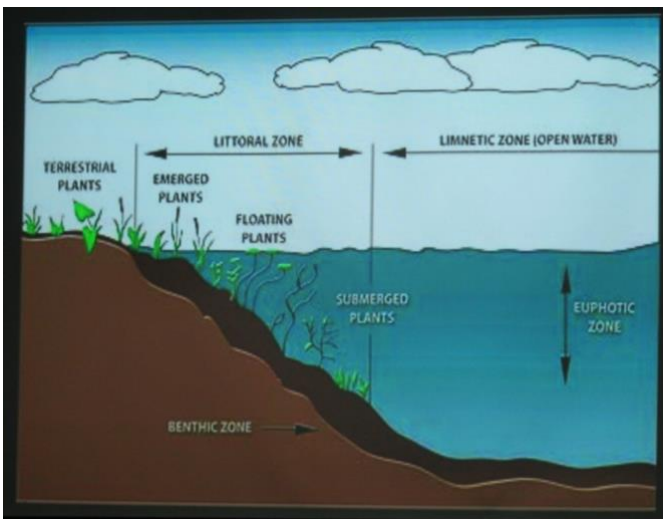
Ebrahim Hussain and his partner work for the environmental part of Auckland City Council. Ibi told us Project Baseline had been set up to find what had happened to Lake Pupuke as it was

showing signs of stress like Brown algae bloom in 2014. The lake is 97 m deep and 150,000 years old. It has no streams entering the lake and no main exit.

There is some evidence of seepage sometimes on Thorne Bay beach. They set up a volunteer organisation and found a main site close to the pump house. They test the water, temperature and take regular photos for visual clarity at 1 m, 4 m, 7 m and 22 m depths. They also tested for dissolved oxygen which was very high in summer but in winter at the lower levels of the lake was non-existent after midday. Hydrogen sulphide and algae bloom appeared but it seems that the lake itself is putting more nutrients into the lake. This was a very informative and interesting talk about a lake many of us knew little about.

Key findings

- Internal loading
 - Profundal sediment
 - Macrophyte beds
- Extensive dead zones
- Anoxic layers (mid-water)
- Abnormal DO profiles
- Decreasing photic zone



Achievements

- High frequency observations (± 2 /month)
- Identification of key issues
- Better understanding of lake dynamics
- Project Baseline Scholarship
- Mayoral Conservation Award finalist