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SHINING LIGHT ON ORGANIC ELECTRONICS



Our speaker tonight was Paul Dastoor, Professor in Physics at the School of Mathematical and Physical Sciences and the director of the Centre for Organic Electronics at the University of Newcastle. Paul was accompanied by his wife Rani a former Rotary exchange student to Japan sponsored by the Rotary Club of Raymond Terrace.

Paul and his team at the University of Newcastle research global issues as diverse as the energy crisis, diabetes and mining safety, Professor Paul Dastoor and his team are at the forefront of the emerging field of organic electronics.

Organic electronics deals with carbon-based electronic materials that are soluble in a variety of liquids. This makes them able to be dissolved into solutions, which can be printed, painted or sprayed onto different surfaces whilst still being able to conduct electrical charges.

Professor Dastoor first began experimenting with the class of plastics known as semiconducting polymers in the mid 1990s. By breaking the semiconducting materials down into tiny particles, Professor Dastoor developed a method of suspending them in water, which led to the concept of producing a solar paint or ink that could be applied to surfaces.

Currently in the final stages of perfecting the process of printing water-based solar paint, Professor Dastoor and his team of 30 researchers at the University of Newcastle's [Centre of Organic Electronics](#) are about to start printing hundreds of metres of solar cells per day. They have also become the first in the world to build energy-efficient devices from water-soluble solar paint materials. "Paint on Energy"

The same technology is also being adapted by the team to build a new generation of sensors for a range of industry sectors from health to mining and safety.

For example, Paul's team has developed a saliva-based test of glucose levels for diabetic sufferers, potentially making blood tests a thing of the past. The test is up to a hundred times more sensitive than current blood sensors and can be built from an inkjet printer.

Designing revolutionary devices such as solar paint and needle-free glucose tests, Professor Dastoor's innovations are set to improve the environment and lives of communities around the world.

It is not possible to fully summarise the content of Paul's outstanding address in limited space. I suggest you click on this link to learn more of Paul's work and to watch some interesting videos - [Professor Paul Dastoor - Clean Energy | Newcastle Innovation Energy](#)

Inside this Edition:

P2: Community Notices

P3: Club events and notices.

Weekly Winners:

Raffle winner Guest speaker Paul Dastoor and Rani who generously donated their prize to Rotary and heads & Tails Arja Levonpera.

Congratulations:

Birthdays:

26 Jul: Mike Mobbs
1 Aug: Ian McIver
3 Aug: Doug Bairstow

Next Week:

Door:

Bart Richardson,
Richard Harris

Meet & Greet:

Ian Faulkner, Geoff Diemar

Toast:

Mike Mobbs

Grace:

Hugh Randall

Introduce Presentation:

Club Meeting

Thank Speaker:

Club Meeting

Bulletin:

Phill Smith

Photos:

Henk Tobbe.

COMMUNITY NOTICES



**Tomaree
CONNECT Day**

Visit us at
**Salamander Bay
Shopping Centre**
Thursday 4th August
9.00 am to 7.00 pm

Find out about Services
in your area: Family Services •
Government Services •Counselling
Services and much much more!

(outside Bay
Butterflies)

For more information contact Chris: 4981 1839
or Gan Gan Family Centre: 4982 1767

**Tomaree
connect** Helping to build a Healthier, Happier,
Safer and more Inclusive Community

The Mai-Wel Group and Family and Community Services invite you to a

Disability Awareness Morning Tea

When: Wednesday 3rd August, 2016

Time: 10:30am – 12:00pm

Where: Ewviva Café and Bar
16 Stockton Street, Nelson Bay (next to Greater Bank)

Who: Invited guests, interested members and business owners
from the local Port Stephens business community.

Guest speaker: Community Disability Advocacy Hunter

Separate fact from fiction and find out more about how you can assist people
with a disability to be more involved in community life in Port Stephens.



Sergeant Jim has success relieving Judi of a fine at his first fine session.



Our guests Toni and Gini Todd enjoying the hospitality of our club.

PCYC - AGM AND ANNUAL REPORT

Port Stephens PCYC held their Annual General Meeting last Tuesday night in Nelson Bay. Our Club has had a very strong connection to the PCYC over the past 4 years providing members for their Committee (Board).

Some of the highlights of the PCYC's performance during 2015/16 included returning a profit (\$25,600) for the first time since Club Manager Matt Brierly took over in 2013.

The Club's new Commercial kitchen is now open thanks to a very generous grant from the Newcastle Permanent Building Society.

Nelson Bay Rotary Club's contribution was recognised at the AGM.

Community Services Director Chris Bartlett and member Tim Ireland were elected to the Committee, along with Superintendent Chris Craner from the Port Stephens LAC, a new face on the Committee.

The PCYC is currently in negotiations with Port Stephens Council to take over the YWCA facility in Raymond Terrace. Three other interested parties have also tendered an expression of interest. Members will be updated when more information is available.

NELSON BAY ROTARY FITNESS/EXERCISE TRAIL UPDATE

Following the successful opening of Stage 1 of this project, it is pleasing to report Stage 2 is well underway. All the mechanical equipment for the Cardio/vascular stations to be installed in Nelson Bay (Victoria Street East) and Little Beach has been ordered with a completion date of mid October scheduled. The Club has the finance available, through our two successful grant applications, The Rotary Foundation (\$20,000) and a Federal Community Grant (\$16,000) to fund this stage. The final stage at Shoal Bay will hopefully be funded via our Charity Golf Day to be held on 7 October 2016

SCIENCE & ENGINEERING CHALLENGE

Volunteers are needed for the Science & Engineering Challenge, August 1-5, at the Forum, University of Newcastle. Rotarians assist with the competition events. Volunteers should contact Paul Griffiths (RC of Williamtown) at 0408431323 or pawmg@bigpond.com to arrange days and times.

UPCOMING EVENTS/MEETINGS

Monday-Friday 1-5 August Science and Engineering Challenge at Newcastle University

Wednesday 3 August - Club Board Meeting at Nelson Bay Bowling Club at 6.30 pm

Thursday 4 August - Club Night

Thursday 25 August - District Governor Steve Jackson's Visit.

Sunday 28 August - Bunnings BBQ

CLUB MEMBERSHIP

Annual fees are now due. Treasurer Kathy Rimmer has issued invoices to all members. The fees can be paid in one \$260 sum or by two instalments of \$130, now, and in January 2017.

NEXT WEEK

CLUB NIGHT – Enjoy the fellowship and discuss club plans and progress.

Apologies/Extras: to Ros Cribb by noon on Wednesday Phone or Text to: 0401 450 239

Failure to apologise by noon Wednesday may incur dinner fee costs.