

ROTARY DISTRICT 9830

INSPIRING
FUTURES



NATIONAL YOUTH SCIENCE FORUM

27th ORIENTATION MEETING

SUNDAY 25th SEPTEMBER 2011

*CHEMISTRY / AQUACULTURE BUILDING
UNIVERSITY OF TASMANIA*

Science Building LT7 and Seminar Room 150

NEWNHAM CAMPUS, LAUNCESTON

PROUDLY SUPPORTED BY ROTARY IN TASMANIA
CATERING BY THE ROTARY CLUB OF LAUNCESTON WEST



PROGRAMME:

1:30 pm	Registration and refreshments
	District Chair, Ian Shuey
1:50pm	Welcome and introduce speakers
	District Governor Peter Murfett
2:00pm	Rotary and NYSF
2:10pm	Students introduce themselves
	Keynote speaker
	Associate Professor Greg Woods PhD, ARCPA, FFSc(RCPA)
2:30pm	Principal Research Fellow, Menzies Research Institute Tasmania
	<i>An immunology solution to the Devil facial tumour</i>
3:00pm	Refreshment break
	Dr Dan Rolph—Co-Director for Management HIT Lab Australia
3:30pm	Inspection of the Human Interface Laboratory
	Geoff Burchfield—Director of NYSF, Canberra
4:10pm	Assisted by 2012 student staff members Bridget Anderson, Nanak Narulla and Max Rintoul
4:40pm	Breakout sessions for students and parents
5:20pm	Windup session, Government House agenda
5:30pm	Session close by District Chair Ian Shuey



PETER MURFETT

9830 Rotary District Governor

Peter is a Certified Practising Accountant but for many years has practiced as a management consultant in Melbourne and Tasmania with KPMG and, more recently in his own company, Murfett Management Pty. Ltd. Prior to this he held senior management positions in State government agencies—Premier and Cabinet, and Consumer Affairs.

I pay tribute to all academic staff members of our Tasmanian colleges, for their encouragement of students to consider NYSF, to all Rotary Clubs in Tasmania for sponsoring both past and present students and the generous support provided by the University of Tasmania.

Congratulations to all Tasmanian students who are privileged to attend NYSF 2012

WHAT IS NYSF?

The NYSF is the only program in Australia that offers students currently in year 11 the opportunity to test-drive potential careers in science and engineering.

For 12 days in January 2012, students come to Canberra or Perth and live on campus as a university student. Our Tasmanian students will join with approximately 400 like-minded young people drawn from all over Australia—and from overseas.

Whilst there, students have an insider's perspective on campus life, and have the opportunity to discuss course options with key people from leading universities [including UTAS]

Students will connect study to a career by interacting with major industry organisations, each driven by cutting-edge science and engineering.

Diverse workshops and field trips give students a chance to roll up their sleeves and experience real life projects with top research scientists and engineers.

Students will debate the hot topics and challenges in science and pick up knowledge and skills that will take them through year 12 and beyond.

And of course, students will have more fun than they can handle.



GREG WOODS

PhD, ARCPA, FFSc(RCPA)

Associate Professor, Immunology

School of Medicine

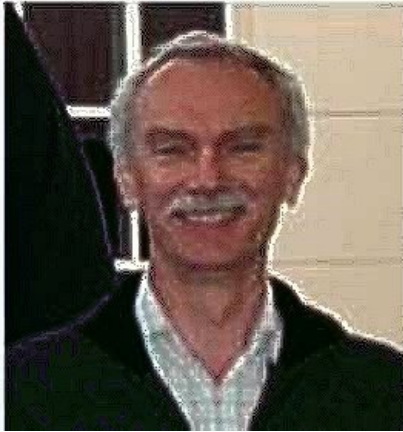
Principal Research Fellow

Menzies Research Institute

Tasmania

Associate Professor Greg Woods completed an undergraduate degree in 1978, BSc(Hons) at Monash University, postgraduate degree at the University of Tasmania, in 1984 (PhD), awarded a founding Fellowship of the Faculty of Science, Royal College of Pathologists of Australia in 2011 (FFSc(RCPA)). Worked as a research scientist in Toronto, Canada; London, England and Edinburgh Scotland. Appointed to the University of Tasmania in 1989 and joined the Menzies Research Institute Tasmania in 2006. Current appointment; Principal Research Fellow, Menzies Research Institute, University of Tasmania, Associate Professor, School of Medicine, University of Tasmania.

Research interests include; Photoimmunology, specifically the effect of sunlight on the developing skin immune system and the influence of vitamin D3; and Devil Facial Tumour Disease (DFTD). Since undertaking studies on the Tasmanian devil major progress has been made in understanding the immune system of the Tasmanian devil and how DFTD escapes immune recognition.



Dr. DAN ROLPH

Project Manager HIT Lab Australia

The HITLab Australia (HITLab AU) is a specialist human interface technology teaching and research centre based at the UTAS Launceston campus. Students study and research using virtual reality across a range of disciplines, from health care to business and the arts. Established in 2008, it partners with the world-renowned HITLab US based at the University of Washington in Seattle and has links with the HITLab NZ based at the University of Canterbury in New Zealand..

Dr. Daniel Rolf joined the HITLab AU as Interim Co-Director for Management in July 2010. Dan is also Associate Head of School and a Lecturer at the School of Computing and Information Systems.

Dan will outline the role of Hitlab and then conduct guests to the HitLab in the adjacent School of Computing and Information Systems building where he will be assisted by, a Post Doctoral Fellow and Intern James Rigall.



GEOFF BURCHFIELD

Director NYSF

Geoffrey has had a colourful career working as a science writer, television presenter and documentary film-maker especially with ABC Television's long-running "Quantum" programme. In previous lives he tested marijuana on cultured human brain cells, studied robotics at MIT in Boston, and as a research zoologist documented fox attacks on kangaroos in the outback. Brief stints playing Mr Doobee on "Romper Room" and wrangling wombats on "A Country Practice" no doubt qualified him to become the first television science news reporter in the country for the Seven Network. In his years with "Quantum" he won numerous awards for films ranging from the Big Bang, to the chemistry of consciousness. His acclaimed series on drugs, "What's Your Poison" has screened in 18 countries and a fossil bandicoot has even been named in his honour.

Before taking up the position of Director of the NYSF, Geoffrey was the head of CSIRO's Media Unit in Canberra.

Geoff will be assisted by Tasmania's 2012 stiffies Bridget Dickenson, Nana Narulla and Max Rintoul.

NYSF “STAFFIES” 2012



Bridget Dickenson

Rosny College

Rotary Club of Howrah

.... I know that the NYSF will be one of the most significant experiences in my life. During my time in Perth I learned so much about science and all the amazing opportunities that are waiting for me. I also learned a lot about myself, confirmed that my ambition to become a doctor is the right choice for me. It was a very nurturing environment; my self-confidence was increased dramatically. The NYSF taught me to believe in myself, that I really can achieve anything I set my mind to.



Nanak Narulla

The Hutchins School

Rotary Clubs of Salamanca & Glenorchy

.... All of this would have been impossible without significant involvement by Rotary, on many levels. The NYSF is lucky to have such a solid and dependable partner, and I hope that future students will be afforded the same opportunities that I was able to experience as a consequence of Rotary’s continued support....



Max Rintoul



The Friends School

Rotary Club of Hobart

.... One of the main messages that was imparted to us was that science as a whole is becoming more and more interdisciplinary and that just because you may choose one field to begin your career in there is no reason that you can’t change fields later on....

SESSION A—CANBERRA

2nd—14th January

 <p>Emma Crack Launceston College</p>	 <p>Rhys McHenry Hellyer College</p>
Rotary Club of Kings Meadows	Rotary Club of Burnie
 <p>Emmilie Goulter Marist Regional College</p>	 <p>Kerry Thomasson Hobart College</p>
Rotary Club of Smithton	Rotary Club of Huon Valley
 <p>Don Hoyle Elizabeth College</p>	 <p>Samuel Johnston The Hutchins School</p>
Rotary Club of Tasman Peninsula	Rotary Club of Salamanca
 <p>RESERVE Jake Crisp The Tasmanian Academy [Don Campus]</p>	
Rotary Club of Devonport	








SESSION B—PERTH

9th—14th January

 <p>Jack Ball Launceston College</p> <p>Rotary Club of Launceston</p>	 <p>Tshepo Ngwenya St Patrick's College</p> <p>Rotary Club of Central Launceston</p>
 <p>Christopher Etherington Hobart College</p> <p>Rotary Club of Claremont</p>	 <p>Jack Williams Launceston College</p> <p>Rotary Club of Launceston West</p>
 <p>Kelsey Johnson St Brendan- Shaw College</p> <p>Rotary Club of Devonport North</p>	 <p>Patrick Yates Rosny College</p> <p>Rotary Club of Kangaroo Bay</p>
 <p>Oliver Krzysik Hellyer College</p> <p>Rotary Club of Queenstown</p>	

SESSION C—CANBERRA

16th—28th January

 <p>Katelyn Davy Elizabeth College</p> <p>Rotary Club of North Hobart</p>	 <p>Zachary Whiteley Marist Regional College</p> <p>Rotary Club of Somerset</p>
 <p>Benjamin Dodds St Brendan- Shaw College</p> <p>Rotary Club of Devonport North</p>	 <p>Georgia Wulf- Rhodes Hobart College</p> <p>Rotary Club of Tasman Peninsula</p>
 <p>Nicholas McVilly The Hutchins School</p> <p>Rotary Club of Howrah</p>	 <p>Wehazit John The Friends School</p> <p>Rotary Clubs of Glenorchy & Moonah</p>
 <p>Indra Timsina Launceston College</p> <p>Rotary Club of South Launceston</p>	

Our Partners

Partnerships with a number of education, industry and government organisations are critical to the Forum's continuing success and growth.

These partnerships provide students with new insights into the worlds of tertiary study and work, and a myriad of employment opportunities and career pathways that are evolving in a rapidly changing society.

Our industry and government partners provide generous financial support. But perhaps more critical to the success of the Forum is that they give presentations during the January program. In these interactive sessions, they outline their corporate structures and give an idea of career pathways in their particular industry sector. More detailed information on each Forum partner can be found at www.nysf.edu.au

The NYSF is also in partnership with a number of leading universities, as listed on the next page. The ANU and the Curtin University of Technology hosts many site visits during the January programme. University staff from all partner universities also attend in January, to give first-hand information and advice about the study options open to students.

In Tasmania, the Rotary District 9830 student selection, orientation and official receptions are supported by:

- **The Faculty of Science, Engineering & Technology of the University of Tasmania, who make venues available at no cost to Rotary or NYSF**
- **Rotary Clubs throughout Tasmania**
- **Government House**

Our 2012 list of partners is on the following page:

Thank you to our Partners



- ◆ **Rotary**
- ◆ The University of Western Australia
- ◆ Curtin University of Technology
- ◆ The Australian National University
- ◆ The University of Technology—Sydney
- ◆ Australian Government Department of Innovation, Industry, Science and Research
- ◆ Exxon Mobil
- ◆ CSL Limited
- ◆ ANSTO
- ◆ Grains Research & Development Corporation
- ◆ Glaxo Smith Kline
- ◆ CSIRO
- ◆ ResMed Foundation
- ◆ University of Western Sydney
- ◆ University of New England
- ◆ The University of New South Wales
- ◆ The University of Queensland
- ◆ Orica
- ◆ The Government of Western Australia

