

Post Event Press Release



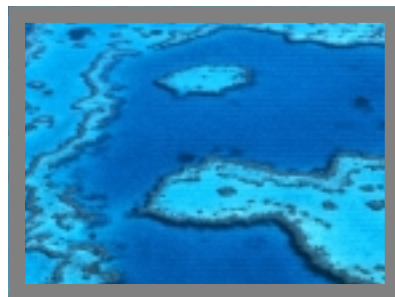
Asia Pacific Nanotechnology Forum 2nd Annual Conference

19-21 November 2003

The Hilton Cairns
Tropical Queensland
Australia

in collaboration with the
**Australian National
Nanotechnology Network**

"Oz Nano 03"



and

International Nanotechnology Showcasing Exhibition



Australian Government
Invest Australia



Australian Government
Department of Education,
Science and Training

Post Event Press Release

The Hon. Peter McGauran Minister for Science



I am delighted to have the opportunity to introduce the first international Nanotechnology exhibition in Australia – the International Nanotechnology Showcasing Exhibition

at Asia Pacific Nanotechnology Forum 2003 or “Oz Nano 03”.

Australian companies and research institutions are discovering and developing a diverse range of expertise in nanotechnologies for many industries including information communications technology, manufacturing, electronics, pharmaceuticals, textiles, agriculture, aeronautics and space exploration, energy and the environment.

Nanotechnology is a leading edge technology for building Australian industries and has been identified in one of the Australian Government’s National Research Priorities – “Frontier Technologies for Building and Transforming Australian Industries”.

I warmly congratulate all exhibitors featured in this booklet who are showcasing their science and technology at this event.

**Peter McGauran MP
Minister for Science
Australian Government**

(International Nanotechnology Showcasing Exhibition at the APNF 2003 “Oz Nano 03” Conference, 19-21 November 2003, The Hilton Cairns. Download the complete Australian Pavilion exhibition brochure at www.apnf.org.)

The Hon. Paul Lucas Minister for Innovation and Information Economy, Queensland, Australia



I am delighted that Cairns is hosting this prestigious event for nanotechnology – which is an area of research that’s providing the building blocks of the future.

Nanotechnology can provide us with applications such as bone tissue engineering to using to selectively separate gases such as hydrogen for use in fuel cells and environmental applications.

While we have world-class nanotechnology research and development, Queensland is also home to reefs and rainforests with unique mega-biodiversity which is also giving our science an edge.

The Queensland Government recognises the importance of nanotechnology research, and has committed up to \$20 million towards the \$60 million Australian Institute for Bioengineering and Nanotechnology at the University of Queensland.

**Paul Lucas
Minister for Innovation and Information Economy
Queensland**

(APNF 2003 “Oz Nano 03” Conference, 19-21 November 2003, The Hilton Cairns. Download the complete Conference Workbook at www.apnf.org)

Asia Pacific Nanotechnology Forum Dr Jurgen Schulte



The Asia Pacific Nanotechnology Forum evolved over a number of years from discussions with Nanotechnology Entrepreneurs and Thought Leaders in

Nanotechnology in Industry, Government, and Academia. The International Nanotechnology Showcasing Exhibition at the 2nd Annual Conference of the Asia Pacific Nanotechnology Forum, APNF 2003 “Oz Nano 03”, is the first Nanotechnology exhibition of its kind in Australia.

The Nanotechnology Showcasing Exhibition at APNF 2003 “Oz Nano 03” is a result of the culmination of strategic initiatives which gained their critical momentum in the Australian Nanotechnology community at the joint DISR-CSIRO workshop in March 2001, where for the first time industry, government and representatives from the research community came together to create a “blueprint” for Australian Nanotechnology. On 24 June 2002, the *Australian National Nanotechnology Network* was formed to link the breadth of activity around the country in science (universities, the Australian Research Council, Commonwealth Scientific Industrial Research Organization), government (Federal & State), industry (multi-sector), investment groups, international links, and social impact groups, to ensure the fastest transfer from science to product and to facilitate a leadership position for Australia.

At this year’s International Nanotechnology Showcasing Exhibition at The Hilton Cairns leading Australian Nanotechnology companies have joined to present their products and services in the Australian Nanotechnology Pavilion.

The Australian Nanotechnology Pavilion is supported by the Australian Department of Education Science & Technology and the Australian Department of Industry, Tourism, and Resources through the Australian *Innovation Access Program*.

**Dr Jurgen Schulte
Executive Director
APNF**

Asia Pacific Nanotechnology Forum Annual Conference and International Nanotechnology Showcasing Exhibition

The Asia Pacific Nanotechnology Forum evolved over a number of years from discussions with Nanotechnology Entrepreneurs and Thought Leaders in Nanotechnology in Industry, Government, and Academia. We have been approached and encouraged by many organizations across Asia Pacific, Europe, and USA to bring together major organizations and Thought Leaders in one place. With their encouragement and support, and by putting their nominated delegates in charge of helping with the formation of the Forum and organizing today's 2nd Annual APNF conference, the Asia Pacific Nanotechnology Forum has again become the center stage for Thought Leaders in Nanotechnology in Asia Pacific.

The commitment and encouragement of the following organizations, and their support in particular to nominate and send their delegates to participate in this year's conference and international Nanotechnology Showcasing Exhibition have made Forum to one of the most important Nanotechnology events in Australia in 2003:

Australian National Nanotechnology Network, **Australia**
Commonwealth Science & Industrial Research Organisation, **Australia**
National Research Council Canada, **Canada**
Chinese Academy of Sciences, **China**
Engineering Research Center of Nano Science and Technology, **China**
National Natural Science Foundation of China, **China**
European Commission, **European Union**
German Center of Competence in Nano-Scale Analysis, **Germany**
National Institute of Advanced Industrial Science and Technology, **Japan**
National Institute for Materials Science, **Japan**
MacDiarmid Institute for Advanced Materials & Nanotechnology, **New Zealand**
Industrial Technology Research Institute, **Taiwan**
National Science Council, **Taiwan**
National Science and Technology Development Agency, **Thailand**
APEC Center for Technology Foresight, **Thailand**
National Nanotechnology Initiative, **USA**
National Science Foundation, **USA**

The 2nd Annual Conference of the Asia Pacific Nanotechnology Forum was sponsored by the following organizations:

APNF 2003 "Oz Nano 03" Thought Expert Sponsors

InvestAustralia
Thomson Scientific (UK/USA)
The University of Queensland

APNF 2003 "Oz Nano 03" Thought Catalyst Sponsors

The ARC Special Research Centre for Applied Philosophy and Public Ethics (CAPPE)
The Australian Department of Education Science & Technology

The *International Nanotechnology Showcasing Exhibition* at APNF 2003 "Oz Nano 03" received generous support through the Australian *Innovation Access Program* and the

APNF 2003 "Oz Nano 03" **Forefront Thought Leader Sponsors**
The Australian Department of Education Science & Technology
The Australian Department of Industry, Tourism, and Resources.



Australian Government
Department of Education,
Science and Training



Australian Government
Invest Australia

THOMSON
DERWENT

PAGE 3



THE UNIVERSITY
OF QUEENSLAND



The 2nd Annual Conference of the Asia Pacific Nanotechnology Forum was held this year in Australia on 19-21 November, 2003, at The Hilton Cairns conference facility seating 140 participants. The high level Annual Conference attracted 154 participants from industry, government, and R&D organizations.

Parallel to the conference the first major International Nanotechnology Showcasing Exhibition was held with the Australian Pavilion being supported by the Australian *Innovation Access Program*, the Department of Education Science & Technology and the Department of Industry, Tourism, and Resources. The Exhibition attracted exhibitors from 5 countries.

APNF 2003 Quotes

Upon coming back safe and sound, and very much enriched, I am writing to extend you my sincere appreciation for the wonderful hospitality and kindness you extended to me in my stay in Cairns. Your quality work being done for the conference left us a very deep impression.

Professor Chunli Bai
Vice President
Academy of Science
China
www.casnano.cn

The Conference was very stimulating. For me it was particularly interesting because I knew little about Nanotechnology in the Asia Pacific region. The conference had a good format, in particular because of the necessarily close interaction among these different fields if Nanotechnology is to bear its expected fruits. Thanks for the very nice meeting in Cairns.

Dr Cylon E.T Goncalves da Silva
Bazilian Association for Synchrotron Light Technology
Brazil
www.ano.org.br

I am very happy to have participated in the APNF 2003 "Oz Nano 03" event in Cairns. It was excellently organized and the venue was very attractive.

Dr Arisawa Shunichi
National Institute for Materials Science
Japan
www.nims.go.jp

Let me congratulate you and your team on the excellent Oz Nano 03 Conference in Cairns – you did a magnificent job!

Dr Peter Binks
CEO, Nanotechnology Victoria
Australia
www.nanovic.com.au

Congratulations on a very successful conference.

Michael Claessens, Senior Manager
Advanced Manufacturing and Services
Invest Australia
www.investaustralia.gov.au

I enjoyed the meeting in Cairns, it was a very good opportunity to meet new people and catch up with old friends.

Dr Fiona Cameron
Executive Officer for Nanotechnology
Commonwealth Scientific & Industrial Research Organisation (CSIRO)
Australia
www.nano.csiro.au

I found the conference to be extremely useful, and made all kinds of new contacts.

Matt Gredley
Innovation Access and Awareness Section, Innovation Policy Branch
Department of Industry, Tourism and Resources (DITR)
Australia
www.industry.gov.au



Dr Lesley Clark, Member of Parliament, Parliamentary Secretary to the Premier of State of Queensland, Australia, opened the International Nanotechnology Showcasing Exhibition and the APNF 2003 Annual Conference in Cairns. Here, Dr Clark in discussion with Dr Jurgen Schulte, Executive Director, APNF, prior the opening.



Prof Chunli Bai, Vice President of the Chinese Academy of Science presenting China's 5 years plan for strategic development in Nanotechnology.



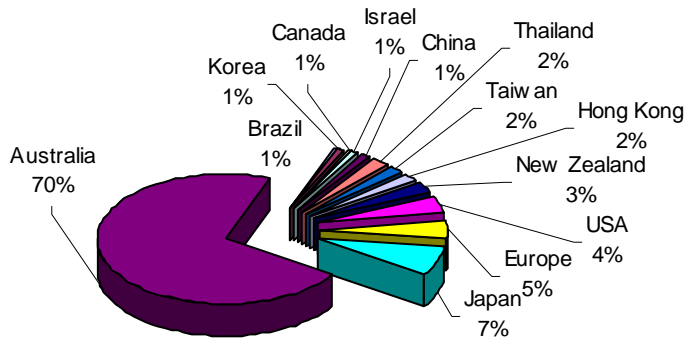
Dr Kanuzobu Tanaka (AIST, Japan), Dr Mihail Roco (NNI, USA), Dr Jurgen Schulte (APNF), Dr Joy Dutta (APNF, AIT), and Dr R Wiesendanger (GCC, Germany) at the International Nanotechnology Showcasing Exhibition networking dinner at the Hilton Cairns tropical pool.



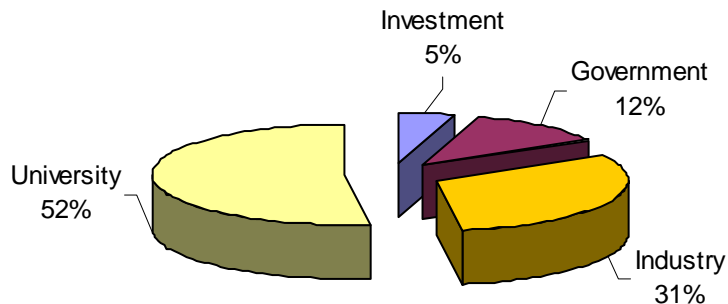
Dr RJ Chang Yang, Executive VP, Industrial Technology Research Institute and Director, National Program for Nanoscience and Nanotechnology (Taiwan) presenting in the Nanotechnology Policy session at APNF 2003.

APNF 2003 Conference Statistics

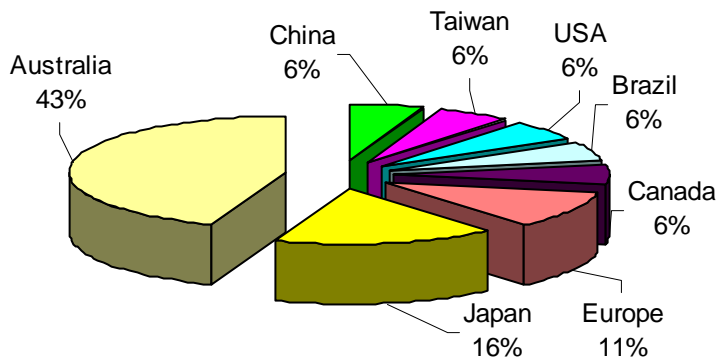
APNF 2003 Participants by Country



APNF 2003 Participants by Industry



Government Representative by Country



At the APNF 2003 Conference Poster Session. Prof Max Lu (University of Queensland) in discussion with Dr Justin Gooding (University of New South Wales).



Dr Steven Duvall (Intel Capital), Prof Simon Ringer (NANO), Dr Kay Latham, Dr Greg Smith and Dr Pall Thordarson at the Australian Nanotechnology Pavilion.



Dr Greg Smith (SciVentures) avenues of investing into Nanotechnology at the APNF 2003 Nanotechnology Commercialization session.



APNF 2003 conference participants in discussion with exhibitors at the International Nanotechnology Showcasing Exhibition.



APNF staff David Lynn and Rasha Gerges at the APNF 2003 registration desk.

APNF 2003 Conference Chairs

Dr Jurgen Schulte	Advisory Board Organizing Committee Conference Intl. Showcasing Exhibition	Executive Director, Asia Pacific Nanotechnology Forum	Australia
Dr Vijoleta Braach-Maksvytis	Conference	Co-Director, Nanotechnology, CSIRO Head, Australia Chief Scientist Office	Australia
Prof Max Lu	Scientific Program	Federation Fellow The Nanomaterials Center The University of Queensland	Australia

APNF 2003 International Advisory Board

Prof Roland Wiesendanger	State Coordinator	German Center of Competence in Nano-Scale Analysis (CCN)	Germany
Prof Kazunori Kataoka		Department of Materials Science and Engineering The University of Tokyo	Japan
Prof Kazue Kurihara		Institute of Multidisciplinary Research for Advanced Materials Tohoku University	Japan
Prof Kazuyuki Kuroda		Department of Applied Chemistry Waseda University	Japan
Prof Hirotari Mori	Deputy Director	UHVEM Osaka University	Japan
Dr Jo-won Lee	Director	National Program for Tera-level Nan- odevices	Korea
Prof Richard Blaikie	Deputy Director	MacDiarmid Institute for Advanced Materials and Nanotechnology	New Zealand
Dr Ottila Saxl	President	Institute of Nanotechnology	UK
Dr Meyya Meyyapan	Director	Center for Nanotechnology NASA Ames Research Center	USA
Dr Mihail C Roco	Senior Advisor Chair	NSF NSET Nanoscience	USA
Prof Michael Barber		Science Planning, Commonwealth Sci- entific & Industrial Research Organisa- tion, CSIRO	Australia
Dr Vijoleta Braach-Maksvytis	Executive Director Co-Director Nanotechnology	CSIRO	Australia
Prof Frank Caruso	Federation Fellow	University of Melbourne	Australia
Prof Mike Cortie	Director	Institute for Nanoscale Technology University of Technology, Sydney	Australia
Paul Field	Associate Director Biobusiness	Australian Technology Park Innovations	Australia
David Landers	Executive Director	Allen & Buckeridge	Australia
Jennifer Liston	Director, Electronics	Australian Electrical and Electronic Manufacturers' Association	Australia
Prof Max Lu	Federation Fellow	The Nanomaterials Center The University of Queensland	Australia
Prof Simon P Ringer	Executive Director	Nanostructural Analysis Network Or- ganisation	Australia
Dr Jurgen Schulte	Executive Director	Asia Pacific Nanotechnology Forum	Australia
Dr Terry Turney	Co-Director Nanotechnology	CSIRO	Australia
Prof Gordon Wallace	Director	Intelligent Polymer Institute Wollongong University	Australia
Prof Jim Williams	Director	Research School of Physical Sciences and Engineering	Australia

APNF 2003 Conference Speakers List

Prof Ying Chen	ANU	Australia	Prof Michael Wilson	Provost, University of Western Sydney	Australia
Dr Andrew Baker	Associated Director, GBS Venture Partners	Australia	Dr Eric Waclawik	Queensland University of Technology	Australia
Dr Pall Thordarson	Australian Key Centre for Microscopy and Microanalysis and School of Chemistry University of Sydney	Australia	Prof Robert G. Elliman	Research School of Physical Sciences and Engineering Australian National University	Australia
Dr Ying Chen	Australian National University	Australia	Dr. Geoffrey Will	School of Physical Sciences Queensland University of Technology	Australia
Dr Gerry Triani	Australian Nuclear Science and Technology Organisation	Australia	Dr Paul R. Stoddart	Swinburne University of Technology	Australia
Dr Mark Fernée	Center for Quantum Computer Technology University of Queensland	Australia	Bronte Price	TAFE Industry Partnership Center, New South Wales	Australia
Dr John Weckert Dr Steve Clarke	Centre for Applied Philosophy and Public Ethics Charles Sturt University	Australia	Dr Andrei Rode	The Australian National University	Australia
Prof Min Gu	Centre for Micro-Photonics Swinburne University of Technology	Australia	Prof Paul Mulvaney	University of Melbourne	Australia
Dr Eun-Chel Cho	Centre of Excellence in Advanced Silicon Photovoltaics and Photonics, University of New South Wales	Australia	Dr Justin Gooding	University of New South Wales	Australia
Dr Peter Binks	CEO, Nanotechnology Victoria Ltd	Australia	Prof Max Lu	University of Queensland	Australia
Prof Besim Ben-Nissan	CMFS, University of Technology, Sydney	Australia	Prof John Drennan	University of Queensland	Australia
Dr V Braach-Maksvytis	Co-Chair Nanotechnology, CSIRO	Australia	Prof Matt Trau	University of Queensland	Australia
Dr Adriyan S. Milev	College of Science, Technology and Environment University of Western Sydney	Australia	Dr Jin Zou	University of Queensland	Australia
Dr Lech Wieczorek	CSIRO	Australia	Dr S Maheswaran	University of Western Sydney	Australia
Dr Maxine McCall	CSIRO	Australia	Dr Ian Maxwell	Venture Partner Allen & Buckeridge Emerging Technology Fund	Australia
Dr Karl Muller	CSIRO	Australia	Prof John H.T. Luong	Biotechnology Research Institute, National Research Council Canada (NRCC) Modification of Multiwall Carbon Nanotubes	Canada
Dr Lech Wieczorek	CSIRO	Australia	Prof Hon Chen Gu	Engineering Research Center of Nano Science and Technology Shanghai Jiaotong University	China
Dr Maxine McCall	CSIRO	Australia	Prof. Chunli Bai	VP, Chinese Academy of Sciences	China
Dr Karl Muller	CSIRO	Australia	Dr Nicholas Hartley	Head, Industrial Research Actions European Commission	EU
Dr Edward J McMurchie	CSIRO Health Sciences and Nutrition	Australia	Prof R Wiesendanger	German Center of Competence in Nano-Scale Analysis	Germany
Dr Grahame Rosolen	CSIRO Telecommunications & Industrial Physics	Australia	Prof Horst Hahn	Head Thin Films Division - Institute of Materials Science Technical University Darmstadt	Germany
Dr Anita Hill	CSIRO, Manufacturing and Infrastructure Technology	Australia	Dr Wataru Mizutani	AIST Nanotechnology Research Institute	Japan
Dr Tim Bastow	CSRIO	Australia	Dr Kazunobu Tanaka	Board Trustee National Institute of Advanced Industrial Science and Technology (AIST)	Japan
Dr Julian Gale	Curtin University	Australia	Prof Masanobu Miyao	Department of Electronics, Kyushu University	Japan
Prof Gordon Parkinson	Curtin University	Australia	Prof Hidehiro Yasuda	Department of Mechanical Engineering, Kobe University	Japan
Dr Julian Gale	Curtin University	Australia	Dr. Shunichi Arisawa	Nanotechnology Researchers Network Center of Japan	Japan
Dr Mark Ogden	Curtin University	Australia	Dr Toshi Mori	NIMS	Japan
Dr. Craig Buckley	Curtin University of Technology	Australia	Prof Kenji Kono	Osaka Prefecture University	Japan
Prof Stephen Prawer	Deputy Director, Microanalytical Research Centre and Node and Program Manager, Special Research Centre for Quantum Computer Technol- ogy, University of Melbourne	Australia	Prof Kazuo Maruyama	Teikyo University	Japan
Prof Peter Gray	Director Australian Inst. for Bioengineering and Nanotechnology University of Queensland	Australia	Dr Judy Sara	Flinders University	New Zealand
Dr Steve Duvall	Director, Intel Capital Building a strong nanocomputing industry in Australia	Australia	Prof Richard Blaikie	MacDiarmid Institute for Advanced Materials and Nanotechnology	New Zealand
Prof Simon Ringer	Director, Nanostructural Analysis Network Organisation, Major National Research Facility, University of Sydney	Australia	Prof RJ Blaikie	MacDiarmid Institute for Advanced Materials and Nanotechnology, University of Canterbury	New Zealand
Dr Greg Smith	Director, SciVentures	Australia	Dr B J Ruck	School of Chemical and Physical Sciences Victoria University of Wellington	New Zealand
Dr Jurgen Schulte	Executive Director Asia Pacific Nanotechnology Forum	Australia	Rebecca Hurrell	Science Outreach, University of Canterbury	New Zealand
David Landers	Executive Director, Allen & Buckeridge	Australia	Dr I. Pastoriza-Santos	Universidade de Vigo	Spain
Dr Joe Shapter	Flinders University	Australia	Dr J. Perez-Justea	Universidade de Vigo	Spain
Prof Mike Cortie	Institute for Nanoscale Science University of Technology, Sydney	Australia	Dr You-Lin Wu	Department of Electrical Engineering National Chi-Nan University	Taiwan
Assoc Prof Donald Martin	Institute for Nanoscale Science University of Technology, Sydney	Australia	Dr. R J Chang Yang	Executive VP, Industrial Technology Research Institute Director, National Program for Nanoscience and Nanotech- nology	Taiwan
Assoc Prof Mike Ford	Institute for Nanoscale Technology University of Technology, Sydney	Australia	Prof. Pairash Thajchayapong	Director National Science & Technology Development Agency	Thailand
Dr D. Maclurcan	Institute for Nanoscale Technology, UTS	Australia	Prof. Joydeep Dutta	Microelectronics, School of Advanced Technologies Asian Institute of Technology	Thailand
Dr Peter Innis	Intelligent Polymer Research Institute University of Wollongong	Australia	Prof. Joydeep Dutta	Microelectronics, School of Advanced Technologies Asian Institute of Technology	Thailand
Dr Penny Hale Dr Eric Waclawik	Latrobe University Queensland University of Technology	Australia	Ottilia Saxl	The Institute of Nanotechnology	UK
Gavin Rezos	MD, pSivida Limited	Australia	Timothy Sautler	Thomson Scientific	UK
Dr Lesley Clark	Member of Parliament, Parliamentary Secretary to the Premier of State of Queensland, Opening speech	Australia	Dr Mihail Roco	Chair NSET - National Nanotechnology Initiative, Senior Advisor, NSF	USA
Dr Peter Hines	NANO, Major National Research Facility, University of Sydney	Australia	Dr Robert James	Eastman Kodak Corporation	USA
Prof Paul Munroe Dr Julie Cairney	NANO-MNRF, University of New South Wales	Australia	Prof Xiaoqing Pan	Materials Science and Engineering, University of Michigan	USA
Mark Roberts	Partner, Davies Collison Cave	Australia	Dr. Raouf O. Loutfy	President, MER Corporation, Tucson, Arizona	USA
			Dr Mihail Roco	Senior Advisor, Chair, US NNI - NSET	USA
			Prof Moor	Thornton Dartmouth College Hanover	USA
			Prof Alex Zettl	University of California at Berkeley	USA