

GRANTS

Australian Academy of Science

Scientific Visits to Europe

Buckman Stephen Prof

Antimatter Applications in Biology and Medicine

15/05/2011 - 30/05/2011

\$4,880.00

Australian Institute of Nuclear Science and Engineering (AINSE)

Research Project

Craig Vincent Prof - Notley Shannon Dr - Nelson Andrew

Determining crystal structure of surfaces prepared using ALD

1/01/2011 - 31/12/2011

\$4,860.00

Australian Learning and Teaching Council

Competitive Grants Program

Higgins Denise Ms - Howitt Susan A/Prof - Wilson Anna Dr - Roberts Pamela Ms - Ross Pauline - Akerlind Gerlese - Gill Betty

Teaching Research- Evaluation and Assessment Strategies for Undergraduate Research Experiences (TREASURE)

30/09/2011 - 3/10/2013

\$182,000.00

Australian National University (ANU)

Discovery Translation Fund

Ganguly Rana - Howard John Prof - Borg Gerard Dr - Hammond Thomas Dr

BushLAN - Distributed Wireless Broadband

21/11/2011 - 24/12/2012

\$24,320.00

Notley Shannon Dr

Development and evaluation of an in-vitro nematode permeability assay to discover new classes of anti-nematode drugs

14/11/2011 - 17/12/2012

\$66,210.00

Industry Linkage Pilot Project Fund

Lobov Sergey Dr

Targeted nano particles for cancer imaging and treatment

20/10/2011 - 20/10/2012

\$3,000.00

Borg Gerard Dr

Decentralised distributed wireless networks

17/10/2011 - 17/10/2012

\$3,000.00

Contribution from Central Funds

Charles Christine Prof - Butcher Harvey Prof - Boswell Roderick Prof - Perren M - Lappas Viaoos - Clark Andrew

The Australian Plasma Thruster Project (Round 4) HDLT

1/08/2011 - 30/06/2013

\$3,589,672.00

Jagadish Chennupati Prof - Martyniuk Mariusz - Kostylev Mikhail - Wang Jia - Liu Yinong - Konstantinov Konstantin - Woodward Robert - Jeffery Roger - Dell John Marcel

National Facility for Biased Target Deposition of Alloyed Nanolayers (externally led by University of Western Australia)

1/01/2011 - 31/12/2011

\$16,862.00

Jagadish Chennupati Prof - Elliman Robert Prof - Wong-Leung Yin-Yin (Jennifer) Dr - MacDonald Daniel Dr - Williams James Prof

State-of-the-art Hall effect system for detailed electrical characterisation in semiconductors

1/02/2011 - 31/01/2012

\$333,333.00

Lam Ping Koy Prof - James Matthew Prof - Buchler Benjamin Dr - Symul Thomas Dr - Sellars Matthew Dr - Simmons Michelle Yvonne

ARC Centre of Excellence for Quantum Computation and Communication Technology (QC2T) (externally led by University of New South Wales)

1/01/2011 - 31/12/2015

\$7,521,500.00

Luther-Davies Barry Prof - Neshev Dragomir Prof - Kivshar Yuri Prof - Madden Steve Dr

ARC Centre of Excellence for ultrahigh bandwidth devices for optical systems (CUDOS) (externally led by University of Sydney)

1/01/2011 - 31/12/2011

\$8,599,500.00

Luther-Davies Barry Prof - Madden Steve Dr - Mitchell Arnan - Alameh Kamal - Moss David J - Monat Christelle - de Sterke C Martijn - Eggleton Benjamin J - Pelusi Mark - Withford Michael - Frisken Steven - Lowery Arthur J

100 Gbit to 1 Terabit per second optical communication test-bed facility (externally led by University of Sydney)

1/01/2011 - 31/12/2011

\$12,500.00

McClelland David Prof - Slagmolen Bram Dr - Shaddock Daniel Dr - Blair David Gerald - Munch Jesper - Zhao Chunnong - Ju Li

Equipment and Instrumentation for Breaking the Quantum Measurement Barrier (externally led by University of Western Australia)

1/01/2011 - 31/12/2011

\$168,062.00

Tan Hoe Hark Prof - Fu Lan Dr - Kane Deborah - Withford Michael - Herberstein Marie - Faraone Lorenzo - Keating Adrian - Dawes Judith Margaret - Carman Robert John - Antoszewski Jarek

Optical Profiler with D-MEMS Capability (externally led by Macquarie University)

1/01/2011 - 31/12/2011

\$11,785.00

Contribution from College of Physical & Mathematical Sciences

Charles Christine Prof - Butcher Harvey Prof - Boswell Roderick Prof - Perren M - Lappas Vaios - Clark Andrew

The Australian Plasma Thruster Project (Round 4) HDLT

1/08/2011 - 30/06/2013

\$3,589,672.00

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1/01/2011 - 31/12/2015

\$7,521,500.00

Contribution from Research School of Physics & Engineering

Charles Christine Prof - Butcher Harvey Prof - Boswell Roderick Prof - Perren M - Lappas Viasos - Clark Andrew

The Australian Plasma Thruster Project (Round 4) HDLT

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1/01/2011 - 31/12/2011

\$8,599,500.00

Australian Nuclear Science & Technology Organisation (ANSTO)

Access to Major Research Facilities Program

Hole Matthew Dr

Scoping TAE excitation using NBI

1/08/2011 - 2/08/2011

\$1,800.00

Lane Gregory Dr - Smith Michael Mr

Pure and applied nuclear structure research with radioactive ion beams at CARIBU - Attendance at International Workshop

1/08/2011 - 2/08/2011

\$3,175.00

Howard John Prof

Imaging Motional Stark Effect for internal current measurements

18/07/2011 - 29/07/2011

\$1,800.00

Hinde David Prof - Evers Maurits Dr - Dasgupta Mahananda Dr

Towards understanding the transition from transfer to energy dissipation in reactions of ^{32}S and ^{40}Ca with ^{208}Pb

20/06/2011 - 29/06/2011

\$12,000.00

Australian Research Council (ARC)

Centre of Excellence

Lam Ping Koy Prof - James Matthew Prof - Buchler Benjamin Dr - Symul Thomas Dr - Sellars Matthew Dr - Simmons Michelle Yvonne

ARC Centre of Excellence for Quantum Computation and Communication Technology (QC2T) (externally led by University of New South Wales)

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Luther-Davies Barry Prof - Neshev Dragomir Prof - Kivshar Yuri Prof - Madden Steve Dr

ARC Centre of Excellence for ultrahigh bandwidth devices for optical systems (CUDOS) (externally led by University of Sydney)

1/01/2011 - 31/12/2011

\$8,599,500.00

2011 Discovery: Project Grant

Akhmediev Nail Prof - Ankiewicz Adrian Dr - Taki Majid

Rogue waves in oceans and optical fibers

1/01/2011 - 31/12/2013

\$390,000.00

Baldwin Kenneth Prof - Orr Brian J - Warrington Richard B - Eyler Edward

Using high-resolution lasers to test quantum electrodynamics

1/01/2011 - 31/12/2013

\$240,000.00

Craig Vincent Prof - Senden Timothy Prof - Notley Shannon Dr

Using light to move molecules - a novel approach to exploring intermolecular forces

1/01/2011 - 31/12/2013

\$365,000.00

Dasgupta Mahananda Dr - Hagino Kouichi - Tostevin Jeffrey Allan

From coherent to dissipative dynamics in complex quantum systems: Emerging new ideas from precision measurements of nuclear collisions

4/04/2011 - 3/04/2014

\$450,000.00

Hinde David Prof - Schmidt Karl-Heinz - Liang Junjien Felix

Researching the super heavy elements: a quantitative understanding through integrating new reaction time measurements with theoretical models

1/01/2011 - 31/12/2013

\$490,000.00

Hole Matthew Dr

Emergence and control of self-organisation in fusion plasmas: through ITER and beyond

1/01/2011 - 31/12/2013

\$255,000.00

Hyde Stephen Prof - Mortensen Kell

Theory and synthesis of self-assembled polyfunctional supramolecular fibres and associated soft materials

1/01/2011 - 31/12/2013

\$445,000.00

Izdebskaya Yana Dr

All-optical reconfigurable interconnects in nematic liquid crystals

1/04/2011 - 31/03/2014

\$355,000.00

Kingston Andrew Dr - Varslot Trond Dr - Sheppard Adrian Dr

Dynamic tomography: high resolution 4 dimensional process tomography

1/01/2011 - 31/12/2013

\$246,000.00

Parsons Drew Dr - Ninham Barry Prof

Hofmeister at Work. Implementation of a paradigm shift in Physical Chemistry

1/01/2011 - 31/12/2013

\$378,000.00

Powell David Dr - Shadrivov Ilya Dr - Engheta Nader

Functional metamaterials based on chiral structures

1/01/2011 - 31/12/2013

\$475,000.00

Robins Nicholas Dr - Close John Prof - Rasel Ernst - Ertmer Wolfgang

Precision inertial sensing with cold atoms

1/01/2011 - 31/12/2013

\$340,000.00

Robins Vanessa Dr - Sheppard Adrian Dr

Foundations and advanced algorithms for topological image processing

1/01/2011 - 31/12/2013

\$255,000.00

Rode Andrei V Prof - Krolikowski Wieslaw Prof - Padgett Miles

Nanometrology of laser-trapped airborne particles

1/01/2011 - 31/12/2013

\$510,000.00

Ruffell Simon Dr - Williams James Prof - Cohen M - Louie Steven - Zettl Alex

Narrow band gap silicon: understanding and exploiting this new silicon phase

1/01/2011 - 31/12/2013

\$420,000.00

Shaddock Daniel Dr - Miller John Mr - Adhikari Rana - Hild Stefan

Enhancing the science reach of second generation interferometric gravitational wave detectors through innovative mirror design and control

1/01/2011 - 31/12/2012

\$295,000.00

Shats Michael Dr - Punzmann Horst Dr - Falkovich Gregory

Extreme wave events on the water surface

1/01/2011 - 31/12/2013

\$330,000.00

Tan Hoe Hark Prof

III-V semiconductor nanowire solar cells

1/01/2011 - 31/12/2013

\$556,000.00

Wang Rongping Dr - Russo Salvy P - Jain Himanshu - Ngai Kia

Understanding and optimizing the microstructure of Ge-As-Se glasses for superior device performance

1/01/2011 - 31/12/2013

\$210,000.00

2011 Discovery: Project Grant - externally led

Bouwknecht Pier (Peter) Prof - Varghese Mathai

Supersymmetric Quantum Field Theory Topology and Duality (externally led by University of Adelaide)

1/01/2011 - 31/12/2013

\$185,000.00

2010 Future Fellowships

Buchler Benjamin Dr

Memory and light for integrated quantum systems

7/03/2011 - 6/03/2014

\$577,884.00

Corr Cormac Dr

The plasma boundary: A major challenge for fusion science and material technology for ITER and beyond

1/01/2011 - 31/12/2014

\$680,552.00

Lane Gregory Dr

New directions for nuclear structure research in Australia

26/05/2011 - 25/05/2015

\$706,552.00

Notley Shannon Dr

Tuning adhesion through polymer chain entanglement

1/08/2011 - 31/07/2015

\$783,126.00

Shaddock Daniel Dr

Laser Interferometry for Space Science

20/01/2011 - 19/01/2015

\$706,552.00

Sheppard Adrian Dr

Testing theories of two-phase flow in porous media through experiment imaging and modelling

1/01/2011 - 31/12/2014

\$773,072.00

Sukhorukov Andrey Dr

Functional nonlinear nanophotonics

31/05/2011 - 30/05/2015

\$580,429.00

Truscott Andrew Dr

Observing Einstein-Podolsky-Rosen entanglement with ultracold atomic gases

6/01/2011 - 5/01/2015

\$692,552.00

2011 Future Fellowships

Choi Duk-Yong Dr

A silicon-compatible light source on a silicon-on-insulator platform

16/12/2011 - 15/12/2015

\$714,528.00

2011 Linkage: Infrastructure Equipment Facilities

Jagadish Chennupati Prof - Elliman Robert Prof - Wong-Leung Yin-Yin (Jennifer) Dr - MacDonald Daniel Dr - Williams James Prof

State-of-the-art Hall effect system for detailed electrical characterisation in semiconductors

1/02/2011 - 31/01/2012

\$333,333.00

2011 Linkage: Infrastructure Equipment Facilities led by an External Institution

Jagadish Chennupati Prof - Martyniuk Mariusz - Kostylev Mikhail - Wang Jia - Liu Yinong - Konstantinov Konstantin - Woodward Robert - Jeffery Roger - Dell John Marcel

National Facility for Biased Target Deposition of Alloyed Nanolayers (externally led by University of Western Australia)

1/01/2011 - 31/12/2011

\$16,862.00

Luther-Davies Barry Prof - Madden Steve Dr - Mitchell Arnan - Alameh Kamal - Moss David J - Monat Christelle - de Sterke C Martijn - Eggleton Benjamin J - Pelusi Mark - Withford Michael - Frisken Steven - Lowery Arthur J

100 Gbit to 1 Terabit per second optical communication test-bed facility (externally led by University of Sydney)

1/01/2011 - 31/12/2011

\$12,500.00

McClelland David Prof - Slagmolen Bram Dr - Shaddock Daniel Dr - Blair David Gerald - Munch Jesper - Zhao Chunnong - Ju Li

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\$168,062.00

Tan Hoe Hark Prof - Fu Lan Dr - Kane Deborah - Withford Michael - Herberstein Marie - Faraone Lorenzo - Keating Adrian - Dawes Judith Margaret - Carman Robert John - Antoszewski Jarek

Optical Profiler with D-MEMS Capability (externally led by Macquarie University)

1/01/2011 - 31/12/2011

\$11,785.00

2011 Linkage: Projects led by an External Institution

Baldwin Kenneth Prof - McClelland David Prof - Luiten Andre Nicholas

Creating a National Time and Frequency Network for Australia (externally led by Uni of Western Australia)

24/06/2011 - 24/06/2014

\$30,000.00

Catchpole Kylie Dr - Rode Andrei V Prof - Gan Xiaosong - Zhang Chao - Alameh Kamal - Lewis Roger - Peng Gang Ding - Juodkazis Saulius - Thoni Carola - McPherdan Ross - McPhail Dennis - Gu Min - Day Daniel - Jia Baohua

3D nano-photonics fabrication facility based on super-resolution techniques

31/05/2011 - 31/05/2012

\$0

Super Science Fellowship

Fifield L Keith Prof - De Deckker Patrick Prof - Ellwood Michael Dr - Fallon Stewart Dr

Novel Dating Methods for Marine Sediments of Relevance to Determining Past Climate Changes

4/04/2011 - 31/12/2013

\$556,800.00

Jagadish Chennupati Prof - Kivshar Yuri Prof

Nanofabrication of Metamaterials for Next Generation Optical Devices

1/07/2011 - 30/06/2014

\$835,200.00

Australian Synchrotron Company Ltd

Access to Synchrotron Facilities

Bierschenk Thomas Mr - Ridgway Mark C Prof - Decoster Stefan Mr - Salama Hazar Dr
Study of the local structural configuration of ion implanted copper impurities in germanium
 3/09/2011 - 6/09/2011
 \$815.00

Decoster Stefan Mr - Bierschenk Thomas Mr - Ridgway Mark C Prof - Salama Hazar Dr
Lattice location study of implanted manganese in dilute magnetic semiconductor materials
 1/09/2011 - 3/09/2011
 \$1,115.00

Kluth Patrick Dr
Swift heavy ion induced track formation and porosity in crystalline and amorphous semiconductors
 30/08/2011 - 2/09/2011
 \$1,115.00

Ridgway Mark C Prof
Australian Synchrotron Beamtime Application - Anisotropic vibrational properties in semiconductors-IV
 28/07/2011 - 31/07/2011
 \$1,415.00

Ridgway Mark C Prof - Salama Hazar Dr
Structural and vibrational properties of metal nanoparticles in silicon nitride
 12/11/2011 - 16/11/2011
 \$7,565.00

Rodriguez Matias Dr - Bierschenk Thomas Mr
Integral SAXS study of the swift heavy ion induced structural modifications in Cu₃₀Zr₃₅Ti₃₅ amorphous metal
 24/11/2011 - 27/11/2011
 \$815.00

Rodriguez Matias Dr
Swift heavy ion induced structural modifications in polymers AS112/SAXS3851
 2/09/2011 - 3/09/2011
 \$1,115.00

Grants Program

Afra Boshra Ms - Kluth Patrick Dr
Annealing kinetics of ion tracks in apatite
 22/11/2011 - 24/11/2011
 \$815.00

Decoster Stefan Mr - Ridgway Mark C Prof - Bierschenk Thomas Mr
Lattice location study of implanted manganese in dilute magnetic semiconductor
 17/02/2011 - 2/06/2011
 \$1,415.00

Ridgway Mark C Prof - Bierschenk Thomas Mr - Decoster Stefan Mr
Impurity clustering in electronic and photonic materials -II
 1/04/2011 - 4/04/2011
 \$1,415.00

Rodriguez Matias Dr - Kluth Patrick Dr - Afra Boshra Ms
Study of the influence of ion tracks in the recrystallization process of amorphous metals using simultaneous SAXS and WAXS
 24/03/2011 - 27/03/2011
 \$1,415.00

BP Exploration Operating Company Ltd

Consultancy

Senden Timothy Prof
Combined Micro CT System - BP Instrument Sale
6/12/2011 - 5/12/2013
\$350,000.00

Commonwealth Department of Defence Defence Science and Technology Organisation (DSTO)

Research Agreement

Close John Prof - Robins Nicholas Dr - Altin Paul Dr
*State of the Art Gravimeter: Thermal Atom Source **CONFIDENTIAL PROJECT***
30/05/2011 - 30/06/2012
\$992,520.00

Dept of Industry Innovation Climate Change Science Research and Tertiary Education (DIICCSRTE)

Australian Space Research Program Stream B: Space Science & Innovation Project Grants

Charles Christine Prof - Butcher Harvey Prof - Boswell Roderick Prof - Perren M - Lappas Viasos - Clark Andrew
The Australian Plasma Thruster Project (Round 4) HDLT
1/08/2011 - 30/06/2013
\$3,589,672.00

Education Investment Fund

Jagadish Chennupati Prof
Australian National Fabrication Facility EIF -ACT Node Project (externally led by ANFFL)
8/06/2011 - 30/06/2013
\$5,230,000.00

National Enabling Technologies Strategy

Jagadish Chennupati Prof
ANU Australian Research Council Nanotechnology Network (ARCNN) - 2010-2013
1/04/2011 - 31/07/2013
\$600,000.00

Volkswagen Stiftung

Grant

Akhmediev Nail Prof - Hoffman Norbert - Pelinovsky E - Peinke Joachim
Extreme Ocean Gravity waves: Analysis and prediction on the basis of breather solutions of nonlinear evolution equations
1/02/2011 - 3/02/2014
\$316,514.03