

# Weekly Bulletin

Research School of Physics and Engineering



**Volume 35 Number 30**  
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## ACQAO on ABC “New Inventors” - Wednesday 12 August at 8pm

Recently the ACQAO Quantum Imaging group (Hans, Jiri, Kate, et.al) successfully published in Nature Photonics their work on Multimode Entanglement. As a result, and thanks to a well written media release, we received a variety of media attention across the web and in print. The highlight was an invitation to present our work on the ABC New Inventors show: <http://www.abc.net.au/tv/newinventors/>

This is a first for ACQAO and it was a wonderful opportunity to communicate and showcase the quality fundamental research going on in the Centre. We are keen for our Science community to support the show and in particular for this broadcast. We feel that our science has been communicated very well through this opportunity and we are likely to touch over 1 million viewers. If you are able please feel free to tune into the ABC on Wednesday 12 August @ 8pm.

### **For those in Canberra:**

In celebration of this event we are hosting a Pizza and refreshments (Beer) night on the evening of the broadcast. This is happening from 7:30pm in the ACQAO seminar room (Bld38a) on Wednesday the 12 August. We will put the show on the big screen @ 8pm (family & friends welcome).

We would be pleased to have your company as we watch how the New Inventors turns entanglement into an interesting science/technology discussion. Please RSVP to Damien Hughes ([damien.hughes@anu.edu.au](mailto:damien.hughes@anu.edu.au)) for the purposes of catering.

### **STAFF MOVEMENTS**

Professor Mukunda Das, Theoretical Physics, will participate and give an invited talk in the 33rd International Workshop on Condensed Matter

Theories in Quito, Ecuador FROM 16-22 August 2009.

### **GRANTS & AWARDS**

#### **National Aeronautics & Space Administration**

Program Number: 92235

Title: ROSES 2009: Fellowships for Early Career Researchers

E-mail: [Curt.Niebur@nasa.gov](mailto:Curt.Niebur@nasa.gov)

Program

URL:

<http://www07.grants.gov/search/search.do?oppId=45776&flag2006=false&mode=VIEW>

This Fellowship program is an add-on to one of the following planetary science research programs: Cosmochemistry (SPIN Program #: 91954); Planetary Geology and Geophysics (SPIN Program #: 91963); Planetary Astronomy (SPIN Program #: 8314); Planetary Atmospheres (SPIN Program #: 88367); Outer Planets Research (SPIN Program #: 92232); Lunar Advanced Science and Exploration Research (SPIN Program #: 93961); Planetary Mission Data Analysis (SPIN Program #: 96245); Mars Data Analysis (SPIN Program #: 88413); Mars Fundamental Research (SPIN Program #: 92233); Astrobiology: Exobiology and Evolutionary Biology (SPIN Program #: 92234). All Fellows are originally selected and funded through a parent proposal to, and subsequent award from, one of these program elements.

Deadline(s):

#### **DEADLINE NOTE**

To be considered for the Fellowship, eligible scientists must submit a standard research proposal (referred to as the parent proposal) to one of the following participating programs: Cosmochemistry (SPIN Program #: 91954); Planetary Geology and Geophysics (SPIN Program #: 91963); Planetary Astronomy (SPIN Program #: 8314); Planetary Atmospheres (SPIN Program #: 88367); Outer Planets Research (SPIN Program #: 92232); Lunar Advanced Science and Exploration Research (SPIN Program #: 93961); Planetary Mission Data Analysis (SPIN Program #: 96245); Mars Data Analysis (SPIN Program #: 88413); Mars Fundamental Research (SPIN Program #: 92233);

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Astrobiology: Exobiology and Evolutionary Biology (SPIN Program #: 92234). Proposals for start-up funds from Fellows selected in prior years are due twice annually: May 29, 2009, and October 30, 2009.

Link to full program description:

[http://australia.infoed.org/spin/spin\\_prog.asp?92235](http://australia.infoed.org/spin/spin_prog.asp?92235)

## **National Aeronautics & Space Administration**

Program Number: 96464

Title: ROSES 2008: Modeling, Analysis, and Prediction (Temporarily Suspended)

E-mail: [Donald.anderson-1@nasa.gov](mailto:Donald.anderson-1@nasa.gov)

Web Site:

<http://www07.grants.gov/search/search.do:?oppId=41109&flag2006=false&mode=VIEW> Program URL:  
<http://nspires.nasaprs.com/external/viewrepositorydocument/cmdocumentid=128873/A.7%20MAP.pdf>

Temporarily Suspended: This program seeks an understanding of the Earth as a complete, dynamic system, with particular emphasis on climate and weather. Key questions that drive the core research efforts include: How is the Earth system changing?; What are the forcing mechanisms driving observed changes?; How does the Earth system respond to natural and human-induced changes?; What are the consequences of Earth system change to society?; What further changes can be anticipated, and what can be done to improve our ability to predict such changes through improved remote sensing, data assimilation, and modeling?

Deadline(s):

Link to full program description:

[http://australia.infoed.org/spin/spin\\_prog.asp?96464](http://australia.infoed.org/spin/spin_prog.asp?96464)