

# EPSM-ABEC 2011 Conference

14-18 August 2011

Darwin Convention Centre  
Darwin, Northern Territory, Australia



See the Conference Website for all details and regular updates:

[www.epsmabec2011.org](http://www.epsmabec2011.org)

## Exploring New Territory:



## Innovative Solutions in Medicine and Health Physics

- Nuclear Medicine
- Radiology
- Radiation Oncology
- Radiobiology
- Radiation Protection
- Health physics in Uranium Mining
- Clinical Engineering
- Biomedical Research
- Biomechanics
- Rehabilitation
- Asset Management
- Research & Education

### August 2011 will be here before we know it!

That means another **EPSM-ABEC conference** is fast approaching, and this time it will be **THE** conference of the year for all medical physicists, clinical engineers, biomedical technicians, radiation safety workers and mining workers to attend. Join us for this first ever **Darwin** gathering which will be a unique and invigorating event to be held at the dazzling **Darwin Convention Centre, NT**.

We are proud to announce our **2011 Keynote Speakers**, the distinguished **Prof David Brenner, Prof Wolfgang Dorr** and **Dr Joseph Smith**.

For the first time, there will be a workshop held on **Radon and Radiation Protection in Uranium Mining** with **Professor David Brenner** and invited speaker **Mr Russel Robinson** (Manager of Environmental Health, Radiation Protection, Department of Health and Families) providing incite and interesting discussions about the important radiation safety and research areas in the mining industry. A **Medical Physics workshop** is being organised prior to the conference, with dates and subject details to follow in the upcoming months. For young **Biomed**s, there will be the **Annual Development Workshop** held by the Clinical Engineering Panel.

Darwin will prove to be a stimulating venue, with breathtaking scenery and wildlife, including Kakadu and Litchfield National Parks. We look forward to receiving your emails of interest, potential conference sponsorship, and abstracts for oral or poster presentations in the months ahead.

Contact us through details found on the conference website: [www.epsmabec2011.org](http://www.epsmabec2011.org)



# Medical Physics Keynote Speakers

**Wolfgang Dörr**  
Dresden, Germany



**Professor Wolfgang Dörr** is the head of the normal tissue radiobiology (NTRB) group, head of the radiobiology laboratory and deputy head of the Section on clinical radiation oncology and radiobiology at the Technical University Dresden (TUD), Germany. He is also deputy director of the experimental centre, the core animal breeding and experimentation facility of the faculty and animal welfare manager of both the TUD and the Research Centre Dresden Rossendorf (FZD), where part of the micro-imaging facilities are located.

The Normal Tissue Radiobiology group of the TUD has a long-standing research record in experimental animal radiobiology with studies in various organs such as oral mucosa, urinary bladder, lung, skin, etc., including extensive experience in local organ irradiation, follow-up of the animals and assessment of functional and morphological changes.

**David Brenner**  
New York, USA



**Professor David Brenner** is the Higgins Professor of Radiation Biophysics, College of Physicians & Surgeons of Columbia University, director of the Center for Radiological Research (CRR), director of the Columbia University Radiological Research Accelerator Facility (RARAF), and member of the National Council on Radiation Protection and Measurements (NCRP).

Professor Brenner focuses on developing mechanistic models for the effects of ionizing radiation on living systems, both at the chromosomal and the animal (or human) levels. He divides his research time roughly equally between the effects of high doses of ionising radiation and the effects of low doses of radiation.

In the field of medical imaging, he has focused on the risk / benefit balance of the higher-dose imaging techniques, particularly computed tomography (CT). In the field of radiotherapy, he has focused on optimising fractionation schemes for different tumour types, to maximise tumour killing and minimise serious side effects; this includes modelling the mechanisms of radiotherapy-induced second cancers, with the goal of reducing second cancer risks. Environmentally, he has focused on the biological effects of radon, both at the chromosomal and the human levels.



# BioMedical Engineering Keynote Speaker

**Joseph Smith, California, USA**



**Dr Joseph Smith** is the chief medical and science officer for West Wireless Health Institute, WWHI, a non-profit medical research organization in San Diego founded by the Gary and Mary West Foundation.

WWHI is dedicated to cutting the cost of health care by accelerating the availability of wireless medical technology:

- Innovate – by committing resources to develop meaningful innovation in health care technology, solutions, and business models.
- Validate – by championing the clinical and economic validation of specific technologies and solutions.
- Advocate – by working to shape the external environment to accelerate the adoption of novel medical technology such as wireless health solutions.
- Invest – by evaluating of internal and external opportunities to accelerate and create innovations in health care.
- Commercialize – by creating the capacity to move products and solutions through the initial commercialization process.

Dr Smith has a distinguished background in both medicine and engineering, with more than two decades evaluating emerging medical technologies as well as practicing cardiology and cardiac electrophysiology in both clinical and academic organisations.





## Test your Darwin Knowledge...

(check the website or next flyer for answers!)



1. Which one starts life as a male and then turns into a female?
2. Which one is short, grumpy, has no hair and eats fish?
3. Which one inspired the name of a nappy service?
4. Which one is the formal outdoor head-wear in NT?



### Where is the Darwin Convention Centre?

Unless you have been to Darwin recently, the Convention Centre will be a new surprise. Just walk out onto the Darwin Wharf (everyone does) and look back towards the city. The Convention Centre is famous for hosting Darwin's International indoor rodeo inside – the RSPCA insisted that the bulls would get too hot and sweaty if they ran around outside!

What does the Darwin "waterfront precinct" look like now? Actually, it looks sensational. In August, the frangipani is in bloom, there is a wave lagoon operating (big, with complimentary flotation devices), there is a children's adventure paddling pool and there is an ocean swimming lagoon (safe and unaffected by Darwin's 7m tidal movement). Sunshine, a temperature of 34°C, lifeguards and costume-clad people sitting in blow-up tubes floating on the water – just perfect!

