



**Australian Institute of Physics  
NSW Branch (August Public Talk)**

**“High-Power Ultrasonics and its Applications”**

**Dr Tony Farmer**

**Deputy Chief**

**CSIRO Materials Sciences & Engineering**

**Tuesday 18<sup>th</sup> August 2009 @ 6.00PM**

At the

**Slade Lecture Theatre, School of Physics, University of Sydney**

**Public talk arranged by: The Australian Institute of Physics (NSW Branch)**

***Entrance is FREE***

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***Summary of talk:***

A small sonochemistry group at the CSIRO Division of Materials Science & Engineering has been investigating the science and application of ultrasound at high power levels for the past decade or so.

Tony will outline some of the intriguing effects produced by high-density ultrasonic fields in liquids and gases and in particular, will discuss a wide range of applications for this technology covering areas as diverse as mining, energy, health and food.



### ***Brief Biography of the Speaker:***

Tony received his PhD in Physics from the University of Adelaide in the field of Laboratory Astrophysics / Spectroscopy and following post-doctoral studies in this area in both Canada and Newcastle (NSW). He joined the spectrophotometry group of the CSIRO Division of Physics in 1973. Since that time his research activities have included spectrophotometry / radiometry, gas discharges/plasma spectroscopy, sub-surface radar, sensing systems / intelligent networks and, most recently, high-power ultrasonics. Dr Tony Farmer is currently responsible for

managing the six sites that make up CSIRO Materials Science and Engineering.



### ***Detailed Schedule for Tuesday, 18<sup>th</sup> August 2009:***

- **6:00-6.30 pm** **REFRESHMENTS, Slade Lecture Theatre.**
- **6.35-7.30 pm** **LECTURE by Dr Tony Farmer.**
- **8.00 pm** **DINNER with the Speaker at Buon Gusto (Italian), 368 Abercrombie Street, Chippendale.**  
*E-mail Dr Fred Osman ([fred\\_osman@exemail.com.au](mailto:fred_osman@exemail.com.au)) if you will be able to join us for dinner.*

### ***Travel Directions:***

- Train to Redfern station and walk to the **School of Physics.**
- Buses 422, 423, 426, 428, 448, and 450 from Circular Quay to City Road / King, or 412, 435, 438, 470, 483 etc. along Parramatta Road from Circular Quay.
- Drive and park in various parking lots. You will need to pay for parking (**\$6 flat-rate after 4 pm**) and display the ticket in your car. You may also find parking places on public roads outside the Uni.

### ***Event sponsored by:***



***The Australian Institute of Physics – NSW Branch  
& The University of Sydney.***

