



## Centre of Excellence for Coherent X-ray Science

### Workshop on Coherent X-ray Imaging in Biology, April 20-21, 2006

La Trobe University Institute for Advanced Studies  
Venue: Bld NR8, Map ref F1 on Bundoora Site Map,  
<http://www.latrobe.edu.au/bg/drawings/maps.htm>

See [http://www.latrobe.edu.au/bundoora/maps\\_transport.html](http://www.latrobe.edu.au/bundoora/maps_transport.html) for transport options

#### Thursday, April 20

<b>Arrive</b>	<b>9:30</b>
<b>Introduction and Tutorial</b>	
Keith Nugent (Director, CXs) <i>Welcome and overview of the Centre's aims</i>	<b>9:45</b>
Andrew Peele (La Trobe University) <i>Physics for Biologists</i>	<b>10:45</b>
<b>Morning Tea</b>	<b>11:15</b>
<b>X-Ray Insertion Devices and Discussions - Chair: Andrei Nikulin</b>	
Herbert Moser (National University of Singapore) <i>Generation and application of synchrotron radiation at SSSL - imaging and superconducting miniundulator</i>	<b>11:30</b>
Breakout groups to discuss science goals.	<b>12:15</b>
<b>Lunch</b>	<b>13:00</b>
<b>Biological Program with Tutorial - Chair: Andy Berry</b>	
Leann Tilley (La Trobe University) <i>Biology for Physicists</i>	<b>14:00</b>
Mike Ryan (La Trobe University) <i>Biology Overview</i>	<b>14:30</b>
Connie Darmanin (CSIRO) <i>Microcrystals, viral particles, single molecules</i>	<b>15:15</b>
<b>Afternoon Tea</b>	<b>15:35</b>
<b>Imaging - Chair: David Paterson</b>	
John Miao (University of California) <i>Coherent Imaging of Biological Samples</i>	<b>15:50</b>
Chris Jacobsen (Stony Brook University) <i>Soft x-ray diffraction imaging aimed at whole cells</i>	<b>16:35</b>
<b>Drinks</b>	<b>17:20</b>

**Friday, April 21**

<b>Arrive</b>	<b>9:30</b>
<b>CSIRO and Laser Overviews - Chair: Peter Hannaford</b>	
Steve Wilkins and Jose Varghese (CSIRO) <i>Overview of the CSIRO programs</i>	<b>9:45</b>
Lap van Dao (Swinburne University) <i>Swinburne Laser program</i>	<b>10:30</b>
Trevor Smith (University of Melbourne) <i>Imaging on small space and time domains</i>	<b>10:55</b>
<b>Morning Tea</b>	<b>11:20</b>
<b>Biological Program ctd. - Chair: Jacqui Gulbis</b>	
Bonnie Wallace (Birkbeck College) <i>Synchrotron CD</i>	<b>11:35</b>
Eric Hanssen (La Trobe University) <i>Cell Preparation</i>	<b>12:20</b>
<b>Lunch</b>	<b>12:45</b>
<b>Structural Determination - Chair: Andrew Stevenson</b>	
Bob Janes (University of London) <i>Structural biology</i>	<b>13:45</b>
John Helliwell (University of Manchester) <i>Softly does it! Cracking lobster shell protein structures and some methodology implications</i>	<b>14:30</b>
<b>Afternoon Tea</b>	<b>15:15</b>
<b>Imaging - Chair: Nick Klonis</b>	
Steve Lane (Lawrence Livermore National Laboratory) <i>The National Science Foundation Center for Biophotonics</i>	<b>15:30</b>
Garth Williams (University of Melbourne) <i>Results using curved beam CDI</i>	<b>16:15</b>
<b>Break out session (and first drink)</b>	<b>16:35</b>
<b>Chair: Keith Nugent (University of Melbourne)</b> <i>Biological Program/ Experimental Physics/ Theoretical Physics</i>	
<b>Finish and More Drinks</b>	<b>17:30</b>
<b>Dinner at JSMH</b>	<b>19:00</b>