Remember the 2000 Sydney Olympics? One of the marvellous and longer term benefits of Sydney hosting the Olympic Games in 2000 has been the astonishingly successful example of wetland ecosystem restoration at the Homebush Bay Olympic site. Workshop participants will be hosted by the Sydney Olympic Park Authority (SOPA) as we inspect the site and hold a workshop at the Authority's eco-friendly facilities located within a remarkable coastal estuarine environment.

The program for the day includes an introduction to wetland management issues by SOPA, a tour of the site including working examples of coastal remediation and a series of Technical Workshops.

**PROGRAM SCHEDULE**

9:30 Workshop registration  
10:00 Official Welcome (Andrew Ferris, Director Parklands, Place Management)  
10:10 Introduction to the Site (Landuse, Remediation and Wetland Management History) (Con Lambous, Manager Environment)  
10:40 Implementation of GIS model results in management practice for remediated landscapes (Eleanor Bruce, University of Sydney)  
11:00 *Morning Tea*  
11:15 *Tour of the Parklands:* the Sydney Olympic Park site provides a unique breadth of coastal management, estuarine wetland, planning and GIS modelling case studies allowing for a highly informative and relevant field visit.  
12:30 *Lunch*  
13:30 Technical Workshop: Modelling of Marine Oil and Chemical Spills in Australia  
14:30 Technical Workshop: Developments in Mapping of Australian coastal seabed habitats  
14:45 Technical Workshop: Fuzzy Logic in Coastal GIS  
15:45 *Afternoon Tea*  
16:00 Buses depart for Wollongong
TECHNICAL WORKSHOP 1

"Modelling of Marine and Coastal Oil & Chemical Spills in Australia"

Presenter:  **Trevor Gilbert**
Principal Scientific and Environmental Adviser, National Response Team
Australian Maritime Safety Authority, Canberra

The session will include:
- Overview of the national spill modelling system and key software/hardware components.
- Outline of the coastal and off-shore hydrodynamic models.
- Discussion on the types, range and sources of key environmental and GIS datasets.
- Model run options, Trajectory (forward), Receptor (reverse), Stochastic (probability), also oil weathering and fate.
- The importance of real time met-ocean data to the effectiveness of the model.
- How accurate is the model and the importance of ground-truthing?
- Use of the model use in spill response planning and combat operations.
- Overview on who, how and where the model is operated for Australian response authorities.
- Live demonstration of the model and the variability of key met-ocean data.
- Examples of the use of the model in real marine emergencies and spills in Australian waters.
- Actual case studies where the model has been used to investigate and prosecute ships polluting in Australian waters.
- Discussion on the future directions to improve hydrodynamic modelling capabilities.
TECHNICAL WORKSHOP 2

“Developments in mapping of Australian coastal seabed habitats”

Presenters:  Alan Jordan
Senior Research Scientist
New South Wales Department of Environment and Conservation

Vanessa Lucieer
Habitat Mapping Research Group Leader
Tasmanian Aquaculture and Fisheries Institute, University of Tasmania

The session will include:
• Overview and demonstration of Australian coastal seabed habitat mapping programs
• Discussion on the development and application of seabed mapping technologies
• Seabed habitat classification hierarchies and standardised decision rules
• The importance of ground-truthing and classification accuracy and uncertainty
  (including working example of validation problems).
• The application of seabed habitat maps for Marine Protected Area design, fisheries
  management, pollution assessment and habitat monitoring.
• Discussion on the future directions of habitat mapping in Australian coastal waters
  with respect to mapping technology, spatial analysis and management of GIS data.
TECHNICAL WORKSHOP 3

“Fuzzy Logic in Coastal GIS”

Presenter: Thomas Zeng
GIS Manager, Sydney Olympic Park Authority

There has been a rapid expansion in the application of Fuzzy Set Theory within the GIS community in the last few years. If you searched the web with the keyword ‘Fuzzy GIS’ in 2001, you would have received a result of just over 150 records. In contrast today the same web search would result in over 142,000 record matches. However, despite the wide application in areas such as coastal hazard risk management and marine planning the adoption of these approaches in coastal studies has been at a slow pace compared to other fields. This workshop aims to introduce the basic principle of Fuzzy Set and the concept of Fuzzy GIS to those in the coastal GIS community. The workshop will attempt to demystify the theory with live examples of site selection models for abalone seeding along the eastern Australian coastline.

The session will address the following issues:

• What’s Fuzzy Set?
• What’s a Fuzzy GIS?
• Why Fuzzy GIS?
• How to Use a Fuzzy GIS?
Accommodation and Transport Options

Wetlands Workshop registrants are required to make their own accommodation arrangements while in Sydney. Sydney city, of course, provides every conceivable option from Backpackers, Youth Hostels and the like, right through to the very best that hotels can offer. A good option is to consider the hotels at Sydney Olympic Park as they will place you very close to the Workshop venue. For further information visit the following website http://www.sydneyyolmpicparkhotels.com.au/. These are not the cheapest option but certainly provide convenience as they are right at the site.

Train
The site is well serviced by trains and details of timetables and train lines are available from the following website http://www.cityrail.info/ (refer to the information under Olympic Park Services). Indeed, trains can get you there right from the international and domestic airports. Telstra Stadium is an easy 5 minutes walk from the Sydney Olympic Park train station (refer to the location map below). Follow Telstra Stadium around to Gate L. CoastGIS’06 Workshop signage and a customer service usher will be at the gate to direct workshop delegates to the Presidents' Suite.

Ferry
The ferry service from the city is a spectacular way to experience the Sydney Harbour water views but services are less regular so you would need to consult the timetable in advance. The Parramatta River ferry will take you from Circular Quay in the city to the Sydney Olympic Park terminal. The ferry timetable is available at the following website: http://www.sydneyferries.info/timetables/parramattariver.php.
There are two ferry times that will coincide with the workshop start time.
1. Departs Circular Quay 8:20am arrives Sydney Olympic Park 8:45am
2. Departs Circular Quay 9.00am arrives Sydney Olympic Park 9.40am
As the ferry terminal is a distance from the Telstra Stadium a bus will be waiting at the ferry terminal to collect all workshop delegates arriving by ferry at these two arrival times. Unfortunately the bus will not be available beyond these arranged times so if you miss the ferry departing Circular Quay at 9.00am please travel by train.

Driving
Enter Sydney Olympic Park via Australia Ave, follow the signs to P1 car park located on Edwin Flack Ave, park here and follow Telstra Stadium around to Gate L. CoastGIS’06 Workshop signage and a customer service usher will be at the gate to direct delegates to the Presidents' Suite.
P1 Parking: $3/hr or $15 max/day (you will need this amount in coins)
Free 2 hr street parking is available near the stadium.

Transport from Sydney Olympic Park to Wollongong
Registrants to the Pre-conference Workshop AND CoastGIS’06 Conference will be transported to Wollongong by coach at the conclusion of the Workshop. Luggage storage will also be available on the day for participants continuing onto Wollongong that afternoon.
If you need to contact the workshop organisers on the day to discuss transport the please phone 0405 576 196.

Additional maps of the Sydney Olympic Park are available from the following website http://www.sydneyolympicpark.nsw.gov.au/visiting/maps