

## Visas

Most visitors to Australia require a visa. Please check with your travel agent or the Australian Consulate, Embassy or High Commission, or if none is available, through the nearest British Embassy or Consulate.

## Banking and Currency Exchange

Most banks are open from 10.00 am to 4.00 pm Monday to Thursday, and from 10.00 am to 5.00 pm Friday. Automatic Teller Machines are widely available and accept most overseas cards, but you should check with your bank, if this facility exists for your card in Australia. Visa and Mastercard are accepted in most businesses. American Express and Diners Club are accepted in some businesses. Your hotel will have currency exchange facilities.

## Vaccination

A current valid international certificate of vaccination against yellow fever is required, if passengers come from, or travel through, declared areas.

## Quarantine

Australia is free from many plant and animal diseases prevalent in other countries. Very strict quarantine rules apply to the import of plants and animals, which cannot be brought into the country without prior application. Animal and plant products are also restricted. Export of native animals and plants are also prohibited.

## Car rental

A valid international driving licence is required in order to rent a car. Cars are right-hand drive, and you must keep to the left-hand side of the road. Seat belts must be worn at all times.

## Electricity

The electrical current is 240 volts, 50 Hz. The connection is a 3-pin flat plug, also used in China, but nowhere else in the world. Most travel goods-stores should sell plug adapters. Some hotels have 110 volt outlets for shavers and hair dryers. Some appliances have a dual voltage switch for travelling.

## Tipping

Tipping is not a custom in Australia. You may tip if you wish, when very good service has been given. It is not expected in most situations, except for hotel porters.

## Weather

September - October is spring time in Australia. The weather is pleasant with temperatures mostly less than 20°C, but it may be slightly chilly in the evenings. There might be some light rains, so bring a light jacket, coat or some warm clothing.

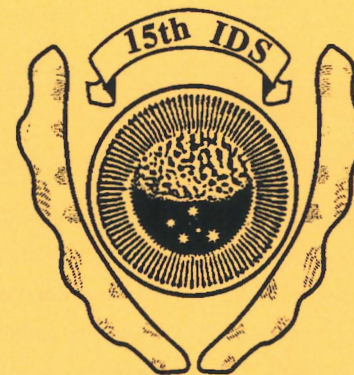
Please complete the enclosed registration form (both sides). Take a photocopy for your record and then forward the original with the fees and abstract of your paper to Jacob John before 30 June. You will receive an acceptance letter of your abstract and the detailed programme in the final circular. A personal invitation to attend the conference is enclosed.

# CONSERVATION OF BIODIVERSITY AND AQUATIC ECOSYSTEMS

## 15th International Diatom Symposium

1998

International Society for Diatom Research and  
Australasian Association of Diatom Researchers



## Second Circular

28 September - 2 October 1998

Perth  
Western Australia



Sponsors:

Curtin University of Technology  
WA Herbarium, Department of Conservation and Land Management

# 15th International Diatom Symposium

## Symposium Secretariat

**Jacob John**

Chair - 15th International Diatom Symposium 1998  
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## Organization

The 15th International Diatom Symposium is organized under the auspices of the International Society for Diatom Research and the Australasian Association of Diatom Researchers and sponsored by Curtin University of Technology and the WA Herbarium, Department of CALM.

## National and International Organizing Committee

Patrick McBride	Canberra (Australia)	Horst Lange-Bertalot	Germany
Gustaaf Hallegraef	Hobart (Australia)	Michel Poulin	Canada
Peter Gell	Adelaide (Australia)	Shamsudin Lokman	Malaysia
Jeremy Pickett-Heaps	Melbourne (Australia)	Alayaga Lobo	Brazil
Hein de Wolf	Netherlands	Shigeki Mayama	Japan

## Local Organizing Committee (Perth)

Kathy Whiteman	Curtin University	Stuart Hellen	Curtin University
Wilma Vincent	Curtin University	Chris Siva	Curtin University
Michael Borowitzka	Murdoch University	Luke Twomey	Curtin University
Was Hosja	Rivers & Waters Commission	Marcello Pennacchio	Curtin University
Neville Marchant	Department of Conservation and Land Management		

## International Society for Diatom Research

Pat Kociolek	President	Richard Crawford	Vice-President
Robert Ross	Past President	Patricia Sims	Treasurer
Gillian Lockett	Secretary		

**Council Members:** David Harwood, Anna-Maria Schmid, Shigeki Mayama, Michel Poulin, Heikki Simola, Kristina Sunback

## F. 'Outback and Inland' Wetlands Tour (3 days)

This excursion is the amalgamation of excursion (E) - acid ephemeral pools of outback rock outcrops and (G) - inland salt lakes of Western Australia, proposed in Circular I. The modified excursion will take you to parts of the wheatbelt-country, arid outback afflicted by secondary salinization, and mining towns. You will also visit some natural inland hypersaline lakes and ephemeral acidic pools perched on top of granite rock outcrops. The vast plateau of this ancient landscape, scarred by salt lakes and temporary pools are delicate ecosystems with great conservation value in the arid regions of Western Australia. The trip involves travelling 450 km into the outback, and with ample opportunity to see the unique wild flowers of Western Australia.

Depart: Saturday 3rd October 9.30 am. Return: Tuesday 6th October 3.00 pm  
Cost: A\$ 400; limit 40

## G. Shark Bay - Stromatolites (4 days)

Located 800 km north of Perth, Shark Bay harbours the largest array of hypersaline stromatolites in the world. You will visit "The Pinnacles" - ancient limestone pillars in the Nambung National Park, near the rock lobster fishing village of Cervantes, to view a group of stromatolites. Then travel further north to Shark Bay to see Shell Beach with wide-spread microbial mats and Hamelin Pool with a vast garden of subtidal living stromatolites. On the way to Shark Bay you will visit the resort town of Kalbarri and the spectacular river gorges of the Murchison river. You will move from the temperate Perth to the subtropical region of Western Australia and view the bewildering variety of plant and animal life; plenty of opportunity to see marine life as well.

Depart: Saturday 3rd October; Return: Wednesday 7th October 5.00 pm.  
Cost: A\$ 650; limit 50

## TRAVEL AND TOURIST INFORMATION

### Perth - An International City

Most major international airlines fly into Perth. There are excellent connections to other parts of Australia, either through international or domestic airlines. Perth international and domestic airport is located 18 km and 13 km respectively from the city. Your hotel is in the heart of the city, directly on the busline.

### Airport to your hotel

A coach service is available for all incoming international and domestic flights (Fares A\$9.00 per adult from International Airport to your hotel and A\$7.00 from the domestic airport to your hotel). Normal taxi fare to the city is A\$16.

### Curtin University

The largest University in Western Australia, the venue for the conference is located 10 km from the hotel; transport will be arranged to and from. There are also regular public transport services from the hotel to Curtin University.

### Travel Insurance

It is strongly recommended that you take adequate cover for travel and medical insurance. Overseas delegates need to purchase insurance in their country of origin. The organising committee accepts no liability for any claims whatsoever.

enjoy some of the finest wines in Australia, a fine lunch and be entertained by traditional Australian songs.

Depart from the city at 9.15 am; Return 4.15 pm. Limit: 50 delegates.

### B. *Wetlands of the Swan Coastal Plain*

Perth metropolitan area has as many as 70 shallow wetlands, including an acidic lake with exposed deposits of fossil diatoms, and a freshwater lake with vast area of freshwater stromatolites (microbialites) and a few salt lakes. You will visit some of the representative lakes, a wild life park with emus, kangaroos and native animals and birds. An ideal opportunity to see the whole metropolitan region of Perth and the wetlands.

Depart: 9.00 am; Return: 5.30 pm. Limit: 50 delegates.

### C. *Rehabilitated Mine-Wetlands*

The RGC Wetlands Centre, Capel, located 250 km south west of Perth, contains fine examples of wetland rehabilitation. This trip includes a visit to 'Dawesville Channel', the largest ecological engineering project in Australia, undertaken to solve the eutrophication problems of Peel-Harvey System, 80 km south west of Perth. It also includes a visit to an Emu farm and a local winery at Capel.

Depart: 8.15 am; Return: 6.00 pm. Limit: 50 delegates.

### D. *Lake Clifton - Stromatolites* (Microbialites)

Travelling 90 km south of Perth you will visit the largest array of brackish water stromatolites (microbialites) in the world. On the way, you will visit an animal Park with koalas, kangaroos, emus, peacocks, camels and other animals and have lunch in a bush environment. Visit 'Dawesville Channel' - the largest ecological engineering project in Australia, built four years ago to solve the eutrophication problem in the Peel Harvey estuary.

Depart: 8.15 am; Return 5.30 pm. Limit: 50 delegates.

## POST-CONFERENCE EXCURSIONS

### E. *Rottnest Island* (1½ days)

Named by the Dutch navigator, William de Vlamingh in 1696, after the unique marsupial "Quokka", Rottnest (Rats nest), this island was part of Perth 10,000 years ago. The island has about 40 km of coastline, ideal for 'snorkelling', diving or merely strolling along the beach, wading through the shallow waters. The island has an extensive system of hypersaline lakes covering 10% of its area with interesting microbial mats dominated by diatoms and cyanobacteria. It is an ideal place for those with interests in hypersaline lakes, marine diatoms and palaeoecology. You will be taken to the island by deluxe ferry and accommodated in an excellent hotel overnight, with ample opportunity to explore the saltlakes, the calm marine waters and the unique flora and fauna of the island. Suitable for those who have less time to prolong their stay in Australia after the conference.

Depart: Saturday 3rd October 9.30 am; Return: Sunday 4 October 6.00 pm.

Cost: A\$ 150; limit 50.

## REGISTRATION

We have received an enthusiastic response to circular 1, with 275 delegates from different parts of the world intending to attend the conference. This circular invites you to register and submit abstracts of your presentations.

The main theme of the conference will be **conservation of biodiversity and aquatic ecosystems**. A wide variety of topics on diatoms: morphology, taxonomy, life-cycle, ecology, biodiversity, biogeography, biomonitoring, aquaculture, ecotoxicology, palaeoecology, and many more as suggested by the preregistered delegates will be covered under the main theme.

## General Tentative Schedule

<b>Monday 28 September</b>	Morning Afternoon	Arrival, booking into hotel, Registration Opening ceremony at Curtin University
<b>Tuesday 29 September</b>	9.00 - 12.30 12.30 - 1.30 1.30 - 4.30 4.30 - 6.30	Oral Sessions Lunch Oral Sessions Poster Presentations
<b>Wednesday 30 September</b>	Mid-conference excursions	
<b>Thursday 1 October</b>	9.00 - 12.30 12.30 - 1.30 1.30 - 4.30 4.30 - 6.30	Oral Sessions Lunch Oral Sessions Poster Presentations
<b>Friday 2 October</b>	9.00 - 12.30 12.30 - 1.30 1.30 - 2.30 2.30 - 4.30 4.30 - 5.30 7.00 pm	Oral Sessions Lunch Oral Sessions Poster Presentations Closing Session Conference Banquet
<b>Saturday 3 October</b>	Post-conference excursions	

Oral Presentations will be organised in the form of sessions of 90 minutes followed by a coffee break. There will be special sessions on Biomonitoring and Biodiversity. Each session will cover a cohesive topic.

**Special workshops, video shows and a visit to the West Australian Herbarium will be arranged according to demand. Details will be in the final circular**

**Oral Presentation:** 15 minutes including discussion.

**Posters:** Dimensions 1 x 1 m, display followed by 10 minutes scheduled oral presentation.

We strongly recommend Poster Presentations to allow greater interaction between the presenter and the audience.

## ABSTRACTS

Abstracts of papers (Oral and Posters) should be clearly typed in English on A4 size white paper, leaving a margin of 3 cm all round. The title should be in bold upper case letters (12 point Times) and the text in lower letters (12 point Times). Leave space of two lines after the title, then type the author(s) name/names without indentation. Underline the presenter's name; leave space for two lines and type the affiliation and address. Start the text of the abstract after indenting the first word; every paragraph should be indented.

You may include graphs, tables, maps and photomicrographs and use up the whole A4 size paper leaving the margin of 3 cm at the bottom. Try to present a true abstract of your paper rather than a vague and elusive one.

### Sample Abstract

#### MORPHOLOGY AND TAXONOMIC POSITION OF CRETACEOUS DIATOM GENUS *POMPHODISCUS* BARKER & MEAKIN

Vladimir A. Nikolaev<sup>1</sup> & David M. Harwood<sup>2</sup>

<sup>1</sup>Botanical Institute, The Academy of Sciences of Russia, St. Petersburg, Russia, and <sup>2</sup>Department of Geology, University of Nebraska, Lincoln, NE 68588-0340, USA.

SEM investigation of diatom morphology of species identified previously as *Craspedodiscus morenoensis*, *Pomphodiscus morenoensis*, and *Benetorus fantasmus* from the Upper Cretaceous (Maastrichtian) deposits of the Moreno Shale in California and from ODP Hole 748C from Kerguelen Plateau, S.E. Indian Ocean, permit a more accurate definition of the structure of pore apparatus of their valves (of these species).

Indicate clearly on the upper right hand corner of your abstract whether the presentation is Oral  or Poster

**Deadline for receipt of Abstracts: June 30**

## PROCEEDINGS

The proceedings of the 15th International Diatom Symposium will be published by Koeltz Scientific Books, Germany after peer reviewing. Manuscripts should be prepared according to the instructions recommended for papers in 'Diatom Research'. Three copies of the manuscripts - one original and two copies and a 3.5" floppy disk in Word 6 (Mac compatible) must be submitted at the time of registration on 28 September to the Secretariat of the Symposium.

## AUDIOVISUAL FACILITIES

All symposium meetings will be held in lecture theatres at Curtin University, equipped with microphones, overhead projectors, 35 mm slide projectors and video players and 'power point' facilities.

## ACCOMMODATION

A modern four star hotel has been blockbooked on the following concessional rates.

<b>Twin/Double</b>	A\$ 135 including 2 full buffet breakfast (Couples or two singles) A\$ 67.50 per person per night	We recommend this for all couples and majority of singles attending the conference. You may nominate your partner to share the room (two separate beds will be provided), otherwise two 'singles' will be placed on a random basis
<b>Single</b>	A\$ 120 including one full buffet breakfast (Single person per night)	Single - the same room as above but occupied by a single person. The charge is for a single person per night
<b>Triple</b>	A\$ 175 including three full buffet breakfast - for 3 singles A\$ 58.50 per person per night	Triple rooms are more spacious and meant for three occupants but there are only a few of these

The above concession rate will apply if you want accommodation before and after the conference in the same hotel.

Current exchange rate - One A\$ = 0.67 US\$

## ACCOMPANYING PERSONS PROGRAMME

Special programmes involving visits to the Museum, Art Gallery, Botanical Garden, Shopping etc. can be organised. Please indicate on the enclosed registration form whether accompanying persons would like to join these programmes.

### Dinner

You will be free to dine out in the city in any restaurant of your choice each evening, except the banquet night. You may also dine at the hotel of your stay which has an excellent restaurant. A list of restaurants and eating places close to your hotel will be provided to you on your arrival.

### Family and babysitting arrangements

If you are attending the conference with children and would like family accommodation and babysitting facilities, please let us know before 30 May.

### MID-CONFERENCE EXCURSIONS - (The cost is included in the Registration Fee)

*Wednesday 30 September*

#### A. Swan Valley River and Vineyard Cruise

The Swan Valley is situated along the picturesque upper reaches of the Swan River. Since the days of the first settlers, it has been renowned for its grapes and world class wines. Discover the fascinating history of the Swan River as you cruise along the river, see the black swans,