



GROUNDWATER IN CARBONATE ROCKS IN THE NORTH OF AUSTRALIA



**15 August 2007
NT Museum Theatre Bullocky Point
Darwin**

The Northern Territory Branch of the International Association of Hydrogeologists (IAH) will be hosting the seminar “*Groundwater in Carbonate Rocks in the North of Australia*” in Darwin on the 15 August 2007. The seminar will be held in the NT Museum Theatre Bullocky Point in Darwin.

The IAH is a scientific and educational organisation that has existed since 1956 to promote the study and knowledge of hydrogeological science and its application for the common good throughout the world. There are more than 3500 members in 135 countries.

The north of Australia has many challenges ahead as it strives to sustainably manage its water resources. It is, however, in the enviable position of having these challenges in the future rather than having to try to rectify the mistakes of the past.

Seminar Program

Across northern Australia, aquifers in carbonate rocks supply potable water for many towns and communities and sustain the dry season flows in many rivers. Darwin, Katherine and Alice Springs obtain part of their potable water supplies from aquifers in carbonate rocks.

Discharges from aquifers in carbonate rocks supply the dry season flows in rivers such as the Daly, Katherine, Flora, Douglas, Roper, Habgood, Robinson, Wickham and Goyder Rivers. Nature Parks that have been developed around a number of these springs – Elsey (including Mataranka Hot Springs), Flora, Berry Springs, Howard Springs and Lawn Hill are some of these Parks.

Ensuring that future development of the carbonate aquifers in the north of Australia does not adversely impact on the aquatic environment maintained by them is one of Australia’s greatest challenges.

The seminar aims to provide participants with a basic understanding of these aquifers and what is being done to ensure that future development is done in a manner that meets the present and future aspirations of the people living in the north of Australia.

Program for Wednesday 15 August 2007

8:00 - 8:30	Registration
8:30 – 8:45	Opening by Peter Jolly, President of the NT Branch of IAH
8:45 - 9:45	<ul style="list-style-type: none"> • The carbonate aquifers of the Northern Territory – Steven Tickell • The carbonate aquifers of the Western Australian Kimberleys – Gary Humphreys • The carbonate aquifers of Indonesia – Soetrisno Soekiban
9:45 - 10:45	<ul style="list-style-type: none"> • What do we know about the groundwater resources of the Daly Basin – Steven Tickell • The link between land clearing and groundwater flow into the Daly – Peter Cook and Steven Tickell • Hydrologic Modelling of the Daly River and Development of a Water Resource Monitoring Strategy – Chris MacHunter, Anthony Knapton and Des Yin Foo • The potential impacts of flow extractions in the Daly River on Barramundi recreational & commercial catches– Peter Bayliss
10:45 - 11:00	Morning Tea
11:00 - 12:00	<ul style="list-style-type: none"> • What do we know about the carbonate aquifers of the Darwin Region – Peter Jolly • Hydrologic Modelling of the Darwin Rural Area and Development of a Water Resource Monitoring Strategy – Peter Evans and Des Yin Foo • The hydrogeology of Berry Springs and Howard Springs – Peter Jolly • How I find information on the carbonate aquifers of the Northern Territory - Daryl Chin
12:00 - 1:00	Lunch
1:00 – 2:15	<ul style="list-style-type: none"> • Formation and Hydrogeology of Pseudo-Karstic Peridotites of Southern New Caledonia – Andrew Moser • The carbonate aquifers of the Sturt Plateau and Victoria River Districts – Des Yin Foo and Steven Tickell • The carbonate aquifers of the Northern Territory portion of the Georgina Basin – Steven Tickell and Peter Jolly • Hydrogeology of the Thornton Limestone in the Queensland portion of the Georgina Basin – Iain Hare • Analysis of long term rainfall trends in northern Australia – Peter Jolly and Phillip Jolly
2:15 – 2:45	Afternoon Tea
2:45 - 4:00	<ul style="list-style-type: none"> • The carbonate aquifers of Arnhem Land and the Gulf Country – Ursula Zaar • Modelling spring flow into the Roper River in the Mataranka / Elsey National Park area – Anthony Knapton and Peter Jolly • The Subak of Bali – Management of water at the village level – Soetrisno Soekiban
4:00 - 4:15	Closing of Seminar

Venue

The seminar will be held at the NT Museum Theatre Bullocky Point in Darwin on the 15 August 2007.

Registration fee

The registration fee for the seminar is \$50 for all attendees other than students. There will be no registration fee for students. On line registration will be available from June 2007 at <http://www.iah.org.au/conferences.html>