

where necessary; or keeping the regulations simple but providing detailed guidelines on numerous topics related to rehabilitation. The study concludes by proposing the second option for the South African situation. Based on the studies done, a 'recipe' is given that could be used for rehabilitation and could be incorporated into guidelines, endorsed by the Department of Minerals and Energy.

Geographic Information System used to Map the Distribution of Tuberculosis at Durban Metro South – Umlazi

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To prevent the further spread of disease, there is a need for multipurpose strategies that can be used by all stakeholders in health. Geographic Information System is one of the best tools that can be used to link different stakeholders irrespective of background knowledge or specialties in the field (interdisciplinary tool). The visual role of GIS makes it easy to incorporate many factors that need attention. One of the major problems in the developing countries is poor management of available information that can be useful, and be used as a benchmark for combating communicable disease (sustainable, integrated approach). Tuberculosis is not the burden of clinical professionals only but there are also important social components that need to be tackled. The management and control of Tuberculosis can be very easy if all the stakeholders can put an effort in possible measures. Geography has a major role to play in health promotion (facilitator role). For effective Tuberculosis prevention and control, programme directors have got information that needs to be unpacked (Environmental Health orientated problems - what is happening where? So Geography Information System can be the answer). Knowing the distribution of Tuberculosis at Umlazi Township Section By Section is very important for prevention and control of the disease.

Micro Excel program has been used for capturing of the Tuberculosis registers from 2001 –2002. Data collected from Umlazi chest clinic. Coding all the themes to match with the land parcels for Umlazi Township, then linked to the GIS programme. The data was analyzed to give results.

Tuberculosis is one of the major causes of death among youth and adults, although it is completely curable disease. It is not purely a medicine problem but it can be prevented and controlled in our country if we address also the socio- economic problems, poor housing, and sanitation and promote a healthy living environment. Under these circumstances families live and move in close social structures, increasing the spread of disease such as tuberculosis and other disease. In Townships overcrowding is common and bad sanitation.

Capitalism and Apartheid Revisited

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The lecture focuses primarily on the period after 1948. It emphasises the importance of recognising the fluidity of relationships between capital and apartheid over time, using the migrant labour system as a key example. It considers relationships between National Party governments and capitalists by exploring the sources of Nationalist support in the early years and subsequent changes in the class and ethnic base of that support in relation to other parties, including the Progressive Party from 1959 and the Conservative Party after 1982. The importance of distinguishing between the maintenance of a macro-environment functional to capitalism and the enactment of specific policies that may be dysfunctional is argued, using the Physical Planning Act of 1967 as an illustration. Forces of change are shown to have derived ultimately from the impacts of capitalist economic growth and the changing human geography this produced, which widened the contradictions evident to geographers since the early years of Verwoerdian apartheid. These contradictions are seen as producing a collision when P W Botha, in his so-called Rubicon speech in 1985, effectively resisted crossing the Rubicon. Capitalist reactions to the subsequent refusal of American and

Monday 22nd September (for paper titles see pages 71-75)				
07:30-08:00	Registration (Foyer)			
08:00-08:50	Serton Memorial Lecture (Kine One) <i>Capitalism and Apartheid Revisited</i> Dr Anthony Lemon (University of Oxford) <i>Chair: Prof. Barnie Barnard</i>			
	Kine One	Kine Two	Kine Four	Seminar Room
Session One	<i>Physical Geography, Sustainable Development and South Africa</i> <i>Chair: Prof. G. De Villiers</i>	<i>Our Urban World</i> <i>Chair: Prof. B. Maharaj</i>	<i>Geographies of Health in South Africa</i> <i>Chair: Dr U. Bob</i>	<i>Tourism and Development</i> <i>Chair: Prof. R. Donaldson</i>
09:00-09:20	Holmes, P. & Bateman, M.	Oldfield, S.	Moodley, V.	Rogerson, C.
09:20-09:40	Van Niekerk, E.	Van der Merwe, I.	Zietsman, S.	Rogerson, C.
09:40-10:00	Dube, L.	Pillay, U.	Lecheke, M.	Bartis, H. and Kruger, F.
10:00-10:20	Duma, S.	Yirenkyi-Boateng, S.	<i>Geographers on Geography</i> <i>Chair: Prof. W.S. Barnard</i>	Rule, S
10:20-10:40	Garland, G.	Maharaj, N.	Fairhurst, U. & Davies, R.	Rogerson, C.
10:40-11:10	Tea (Foyer)			

- Gumede, D.** *Tourism and Development in Amanzimtoti*
- Haasbroek, A.J. and du Preez, P.J.** *An unique plant community near Bloemfontein threatened due to urban expansion*
- Harmse, A.C.** *A multivariate approach to the demarcation of development regions in the South African space economy*
- Holmes, P. and Bateman, M.** *The Wildeness seaward dune cordon, southern Cape: establishing a new chronology*
- Houghton, J. and Scott, D.** *The role of voluntary participatory organisations in sustainable development: a case study of the Hammarisdale Waste Minimisation Club*
- Innes, L.** *The impact of school mathematics and geography teaching on topographic map use performance*
- Jacobs, J.A. and Smit, H.A.P.** *Natural plant rehabilitation in the SAS Saldanha Nature Reserve*
- Jacobson, L. and van der Westhuizen, W.A.** *The pre-colonial pottery provenancing project*
- Janse van Rensburg, H.** *Experiencing desegregation in a newly established neighbourhood in Vredenburg*
- Khanyile, M.** *The impact of community conflict and fragmentation in land reform: the case of Thembalihle, KwaZulu-Natal*
- Kopke, D. and Herbst, F.** *Tourism and development: British Kaffraria's potential*
- Kotze, N.** *Places to go and things to do: images of South African destinations in tourism advertisements*
- Kruger, E.** *Legislation for mine rehabilitation in South Africa, Australia and Canada: a comparative review*
- Lecheke, M.** *Geographic information system used to map the distribution of tuberculosis at Durban Metro South - Umlazi*
- Lemon, A.** *Capitalism and apartheid revisited*
- Loock, J.C.** *Our Dwindling Resources – A Scenario for the Future*
- Lutchmiah, J. and Gangoo, A.** *The influence of informal communities on water quality: the case of the Umlaas River, eThekweni, KwaZulu-Natal*
- Magagula, H.B.** *Environmental impacts of low-cost housing development: the Case of Alice, Eastern Cape*
- Magi, L.** *Tourism education as a vehicle for community tourism awareness and development in KwaZulu-Natal*
- Maharaj, B.** *Urban reconstruction in the post-apartheid era – the Cato Manor experience: a critical appraisal*
- Maharaj, N.** *Engendering local government in post-apartheid South Africa – experiences of female councillors in Durban (1996- 2000)*
- Makhanya, E.M. and Ngwabi, G.T.** *Towards sustainable integrated rural development in South Africa*
- Manzi, L.H.** *The use of GIS for monitoring crimes from camera in eThekweni Municipality, KwaZulu-Natal, South Africa*
- Marias, L. and Botes, L.** *An evaluation of community-based planning in the Mangaung Local Municipality*
- Meadows, M.** *African environments 2003: problems and prospects*
- Mearns, K.** *Natural resource based community tourism: the answer to sustainable tourism development in South Africa*
- Mebrhatu, M.T., Walker, S. and Barker, C.H.** *Evaluation of Spatial Interpolation Methods for annual rainfall on the Highlands of Eritrea*
- Moodley, V.** *Reclaiming the geography of health: uncovering contexts and concepts for health research in South Africa*
- Morgenthal, T.L., van Rensburg, L., van der Walt, K. and Meyer, R.** *An evaluation of topsoil quality on managed coal discard dumps*