

TEMs Links



March 2004

VOLUME 5 ISSUE 1

CC's Corner

Dear All,

Welcome to 2004, continuing studies for many and new experiences for the 9 new students. Please welcome new students Jann Crase (ex-northern woodlands campaigner, ECNT), Christine Roetgers, Denis Grace (continuing his studies), Phillip Smith (in Vietnam for 2004), Nick Harris, a reformed vet (!), Betsy Hill (originally from the US but recently of Indonesia), and Simon Gummer from the UK, returning after a time away.



We also have 3 students from the University of Aarhus in Denmark, Søren Faurby, Jannie Fries Linnebjerg and Pernille Madsen, who are enrolled in the TEM as part of an exchange program between the CDU and Uni of Aarhus (<http://www.environmentalstudies.au.dk/en/>).

This issue we have a good range of news, book reviews and information on potential cross institutional units for TEM students. We will encourage TEM students to take University of Queensland elective options as they have a number of externally available or block mode units in rangelands management, eco-tourism and resource economics, see <http://www.nrsm.uq.edu.au/>. Contact me if your interested in more information. Also of interest for local TEM students is the Ecology Journal Club for Post Grads and Staff. This is discussion group that meets regularly to discuss latest journals and ideas in ecology and environment science, very stimulating for students, details on p10.

Over the end of year break, CDU has seen a number of management changes, from some re-structuring of Schools and Faculties to recent strategic appointments of four new professors to the University, namely Professor Robert Wasson (DVC Research, Director, Institute of Advanced Studies), Professor Bruce Campbell (Research School of Environmental Studies, Institute of Advanced Studies), Professor Stephen Garnett (Professor, Tropical Knowledge) and Professor Lesley Barclay (Professor, Desert Knowledge). This represents a significant increase in expertise and experience coming to CDU, generating new ideas and opportunities in research and teaching. This can only benefit courses like the TEM program. The challenge for TEM staff is to ensure advances and new knowledge is incorporated into our courses to keep them as dynamic as they are !

Enjoy your semester!

Regards,
Lindsay H
Course Coordinator

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on Christmas Island

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TEMS LINKS

- *Aims to keep students of the Graduate Certificate, Graduate Diploma and Master of Tropical Environmental Management in touch with each other and with staff in the course*
- *Contributions from students and others are always welcome, and should be sent to*

TEMs Links
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CROSS-INSTITUTIONAL ELECTIVES

A small university like Charles Darwin is obviously limited in how many units it can offer its students. That's where James Cook University and University of Queensland, both partner universities under the TS-CRC agreement, can help. Both offer many interesting units relevant to Tropical Environmental Management that can be taken as electives under the TEM program.

You are probably all aware of two units offered by JCU, developed with support from TS-CRC – Indigenous Environmental Management in Tropical Australia (EV5252) and Environmental Decision Making in Tropical Australia (EV5051). Many TEM students have completed these units, with assistance from the TS-CRC to subsidise the required travel to Cairns.

JCU's School of Tropical Environmental Studies and Geography offers a program of advanced undergraduate and post-graduate units run from their Cairns and Townsville campuses as block units. For more information contact your friendly Course Coordinator, Lindsay Hutley, or contact the school directly via their web-site:

<http://www.tesag.jcu.edu.au/subjects/>

Some TEM students may be particularly interested in JCU's tropical marine science units – you can visit their web-site for up to date details: <http://www.jcu.edu.au/marine/>.

The University of Queensland is a more recent partner, and you are probably not so familiar with their offerings. At a recent meeting, Lindsay, Penny Wurm and I obtained more information on their courses from staff of UQ's School of Natural and Rural Systems Management based at Gatton. Some of that information is summarised below, but for more details, again contact Lindsay or visit their website.

UQ units most relevant to TEM students are those offered by the following Faculties and Schools:

1. Faculty of Natural Resources, Agriculture & Veterinary Sciences, which runs courses in:

- Natural Resource Economics
- Resource and Environmental Economics
- Rangelands Management
- Agribusiness

2. School of Natural and Rural Systems Management

Units offered include:

- ENVM 7501 Micro tourism planning
- ENVM 7504 Ecotourism
- ENVM 7505 International and national conservation policy
- ENVM 7507 Public sector management and conservation planning
- ENVM 7508 Tourism demand and product development
- ENVM 7509 Current issues in natural resource management
- ENVM 7517 Farm and community forestry
- ENVM 7518 Forest assessment and management for ecological and commercial purposes

- AREC 7005 Tropical forest economics and policy
- NRSM 7002 Farm and community forestry in the tropics
- PLNT 7013 Tropical forest silviculture, native forests and plantations

3. Centre for Rural and Regional Innovation – Queensland (a partnership between UQ and QDPI)

Offers units externally, with a five day residential at the start, and a two day residential at the end of a 12 week course. If we can find 15 participants, they will come to us. See Lindsay for details of these units – the two marked with asterisks may be especially interesting for TEM students, and a brief unit outline is given below. Lindsay had more information.

- Adult learning in rural extension
- Advanced facilitation in resource management
- Continuous improvement and innovation
- Development of workshops and extension packages
- Empowering communication technologies
- Evaluation of programs and projects
- Leadership and group facilitation
- Managing and planning projects*^A
- Managing change processes
- Marketing management of extension packages
- Negotiation and conflict management in resource management*^B
- Participative research and development
- Philosophy and practice of extension
- Research methodologies in management and extension
- Rural community development
- Rural innovation management

* A. Managing and planning projects covers

- *Definition of a project*
- *Components in planning and managing a project*
- *Exploring various project models*
- *Selecting tools, techniques and methods to assist in planning and managing projects*

*B. Negotiation and conflict management in resource management

- *Understanding conflict, its components, consequences and implications*
- *Approaches for managing conflict and their implication for the outcomes*
- *Matching the conflict management approach to the situation*
- *The differences between bargaining and negotiation and impact on relationships*
- *Processes for negotiation*
- *Skills/ techniques to improve negotiating ability*
- *Strategies and counter strategies commonly used in negotiation*

So why not be brave, and study that something a little different that you've always been fascinated by? See Penny Wurm for information on travel scholarships for TEM students, provided by Tropical Savannas CRC (website http://savanna.cdu.edu.au/education/travel_assistance.html)

Latest news on MTEM research project students

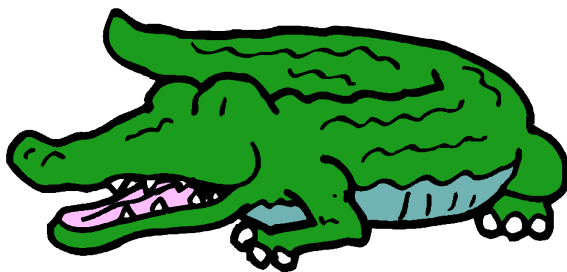
By Penny Wurm
MTEM Research Projects Coordinator
penny.wurm@cdu.edu.au

I am happy to report again that there is a fascinating range of MTEM projects underway at present. Your TEM colleagues are currently investigating everything from the quality of EISs in Port Curtis, to seed biology in the context of mine site rehabilitation, to aerobiology and its effects on health. More about current projects in future editions.

Students who have submitted theses since our last *TEMsLinks* are:

Deirdre Allen, who prepared *The Draft Pulu Keeling National Park Plan of Management*.

Amaral Chibeba, who studied the *Nesting ecology of the Australian freshwater crocodile Crocodylus johnstoni on the McKinlay river: setting a baseline for assessing the potential impact of the exotic cane toad, Bufo marinus.*



MTEM Theses

Did you know that copies of some of the best completed MTEM Theses are lodged in the Short Term Loan section of the CDU Library? They are, however, a bit hard to find—they are in the Personal Copy collection. Numbers 534, 541, 579, 824, 825 are MTEM theses (lodged there by Penny Wurm).

Nathalie Laurence, who worked on *Assessing the jumping performance of tree frog species (Anura: Hylidae) from the Darwin region: What is the physiological significance of the thermal environment?*

Julia Schult who studied the *Survival of populations of the Arnhemland Cycad (Cycas arnhemica) under Experimental Harvest Regimes.*

Submitting any day now are:

Brian Cluney who reviewed *The Northern Territory wild-catch barramundi Lates calcarifer fishery: a comparative investigation of social cultural economic and environmental values of key stakeholders*

Natalie Madden who is looking at an *Evaluation of Port Curtis Environmental Impact Statements.*

Congratulations Amaral, Deirdre, Nathalie, Julia, Brian and Natalie.

Amaral is now back home in Mozambique, and Brian has just left Australia for Fiji working on an EMS project with AusAid.

Congratulations also to recent MTEM graduate **Makoto Hasebe**, who, together with his project supervisor, has just had a paper based on his MTEM thesis accepted by a refereed journal:

Hasebe M, Franklin DC. (in press) Food sources of the Rainbow Lorikeet *Trichoglossus haematodus* during the early wet season on the urban fringe of Darwin, northern Australia. *Corella*

Grad Briefs – Paul Davey

Paul Davey completed his MTEM a year ago, and writes from his new home on Christmas Island.

Good timing and fortune brought me to employment with EcOz, a Darwin based private enterprise environmental consultancy company. But to get there I studied my butt off and worked 3-4 part time jobs to get exposure and experience. The excellent training through the MTEM prepared me for the multitudinous EMP's, EIS's and EH & S reports that the company often prepares and reviews.

Not too long after burying myself in these acronyms an opportunity to travel to an island in the remote Australian Territories of the Indian Ocean became available. The role was different and challenging, but I packed my sunscreen and headed for the unknown. I am now living on Christmas Island and fulfil the role of Environment Officer where I regulate environmental pollution and industry. This involves issuing licences under the WA *Environmental Protection Act 1986* to industries with the potential to pollute, and through constant negotiation raise working practices to minimise environmental impacts.

I have as part of my station a house and diesel ute and have inherited a dog. The island is small and presently supports a population of under 1000. As Officer of the Indian Ocean Territories I am contracted through EcOz to manage both Christmas Island as well as the Cocos (Keeling) Islands located 800km further west. Situated 3,600km North West of Darwin (1/3 of the way to Africa), the Cocos (Keeling) Islands are a collection of tropical sandy islands located in a ring that once formed the lip of a volcano. Picture perfect, coconut trees and all, I travel there every two months. Both Cocos and Christmas Islands have a fascinating ethnography and a strong mix of Chinese and Malay people dominate. Culturally there is a predominance of Asian foods, language and religion.

Both islands have a fascinating array of marine and terrestrial life that provide endless opportunity for study and interaction. Some of the better known characters include Red Crabs which form an essential component of the forest ecology, huge Robber Crabs which are the largest land-based crustacean in the world and whale sharks that migrate annually. So in my spare time when I am not managing diesel spills and other environmental disasters, myself and my girlfriend (I brought my own as I heard there was a shortage – mining town and all) go caving, snorkelling and SCUBA diving amongst the myriad of tropical fish that congregate in the corals along the drop off – a zone less than 100 m off shore that descends to depths of 2000 m. Each day I am reminded of my good fortune to be surrounded by this beauty, and of the opportunities that led me here. I wish everyone studying the MTEM and the many friends I made during my time the very best in all your pursuits.



This is a view of 'Flying Fish Cove' where most of the activity occurs. The structure at the bottom of the cove is the jetty. At the top of the photo are two structures called the 'Cantilevers' that are used to load ships with phosphate from the storage warehouses. Bottom right is the 'Kampong' where the majority of the Malay population live.



Location Map (Courtesy of CKI Information Bureau)



Left: *This is a Robber Crab. I surprised him one night in my Kitchen! They can live up to 40 years and occur in a variety of colours, from orange to purple. They are most closely related to hermit crabs.*

Below: *Here you can see the Red Crabs at the oceans edge at the end of their migration. These are all females carrying eggs. They gather at the waters edge and when the tide is right, perform a dance to shake off the eggs into the ocean.*



TS CRC ACIAR Fire project – A TEM link

By Penny Wurm, Higher Education Project Leader



Project team members from Darwin, Flores and Sumba chat in a shady rainforest patch, surrounding a spring at Luku Wingir, Sumba

The TS CRC and CDU are partners in an ACIAR* funded project looking at fire management in Eastern Indonesia (Sumba and Flores islands). These island landscapes suffer unmanaged fires, which have resulted in dramatic reductions in forest cover and subsequent soil erosion. These in turn have affected the livelihoods of villagers living in the landscapes.

Team members of this project include GIS professionals, project managers, research ecologists, social economists and academics. Staff are based in CDU, TS CRC and NT Bushfires Council in Darwin, BAPPEDA NTT in Sumba, Flores and West Timor, and Satya Wacana Christian University (SWCU) in Java (Salatiga).

The ACIAR project aims to increase capacity to monitor and manage fires and their impacts, by firstly auditing the extent of fires using GIS, remote sensing and ground-truthing, and also evaluating the impact on domestic economies by interviewing house-holders in participating villages. The project also has an education and training component – building capacity for education and training in savanna management in the region. This includes both relevant training for land managers, as well as Higher Education opportunities for members of the project team.

This is where TEM comes in – your faithful correspondent is the Higher Education representative on the project team, investigating ways that the TEM program can be used to help build capacity for education in savanna management.

I was very fortunate to attend the December meeting of the Project Team, held in the little city of Waingapu, on Sumba. It was my first trip to Indonesia and luckily for

me I felt I had died and gone to heaven.

The meeting included the opportunity to meet with colleagues from the Faculty of Biology at Satya Wacana Christian University. The SWCU has a very small facility in Waingapu, with the main campus being in Salatiga, Java. The plan is for CDU and the TS CRC to make available materials developed for the TEM program to SWCU. This may be achieved through student exchanges, making available TEM units for inclusion in the Master program taught at SWCU or many other possible combinations of resource sharing. I am eagerly anticipating the next trip to Salatiga in May, after the Indonesian general election scheduled for April. In the long term, the project will result in improved land management in Eastern Indonesia, increased links between our two universities and a number of Indonesian students in the TEM program at CDU.

For more information about the project visit the project website at <http://fireindon.ntu.edu.au/>. There is a link to a document which details the education component of the project available under “About the project”.

Indonesian speakers can find out about SWCU at <http://www.uksw.edu/>.

*Australian Centre for International Research (ACIAR) is an Australian Government statutory authority that operates as part of Australia's Aid Program within the portfolio of Foreign Affairs and Trade. It contributes to the aid program objectives of advancing Australia's national interest through poverty reduction and sustainable development. For information on ACIAR see <http://www.aciar.gov.au/>.



Inland Sumba comprises a dissected limestone plateau. This view features a landslide that occurred in the 2002/2003 wet season.



A view from a hill adjacent to a participating village, Luku Wingir, Sumba. The planted area nestling among hills was a spring-fed lake in the 1980s. Erosion, in part due to vegetation loss as a result of unmanaged fires, has now completely filled the lake.

Carbon accounting and land management in Australian tropical savannas: Addressing the science and policy uncertainties

This workshop was held February 23-25, 2004 at CSIRO Tropical Ecosystems Research Centre, Darwin. It had the following aims:

- 1) To develop a common understanding of research portfolios of GA and TSM CRCs; areas of common interest.
- 2) To develop an agreed position on the current knowledge and uncertainties regarding carbon accounting and land management in Australian tropical savannas at international, national, regional and enterprise scales.
- 3) To develop proposals for future collaborative projects involving both the Savanna CRC and the Greenhouse Accounting CRC that are aimed at reducing uncertainties in the effects of management on carbon-equivalent stocks and fluxes in Australian tropical savannas including Land Use, Land Use Change, Fire and Climate Variation
- 4) To publish workshop proceedings in a joint GA/TSM CRC publication and a Special Issue of *Australian Journal of Botany*

Presentations included:

Beverly Henry & Oliver Woldring : Impacts of current policy and international agreements for carbon accounting and land management.

Karen Vella & Dan Walker: Carbon in the context of land use change in the savannas.

Dick Williams, Lindsay Hutley & Kelvin Montagu Allometric determinations of biomass in savannas empirical measurement

Lindsay Hutley, Jason Beringer, Ray Leuning: Carbon fluxes: Net Ecosystem Productivity in savannas

Chris Stokes A savanna Free Air Carbon Dioxide Enrichment (FACE) experiment: Applications to carbon accounting.

Michael Hill, Stephen Roxburgh, John Carter and Greg McKeon: Scenario modelling of grazing x fire x climate interactions in Australian savannas.

Guillaume Simioni & Miko Kirschbaum: "CENW-TG: A new model to simulate climate change effects on tree-grass systems carbon budget".

Damian Barrett & Johnny Xu: Integrating ground based observations, remote sensing and atmospheric measurements to quantify the dynamics of Net Biome Productivity for Australia.

Johnny Xu & Damian Barrett: Biomass burning - fire data processing and carbon emissions from fire on continental Australia (1996 - 2000).

Michael Hill & Jeremy Russell-Smith: Remote sensing issues

Jeremy Russell Smith: Fire abatement in northern Australia: Current, historic and future Fire regimes and their impact on C storage

Garry Cook & Adam Liedloff : Accounting for carbon using the FLAMES models

Rod Fensham: Historical changes in the Tree / grass balance in Queensland: recent issues for carbon accounting

Evelyn Krull & Stephen Bray What can soil carbon isotopes tell us about vegetation change and reducing uncertainties?

Ben Harms Tree clearing impacts on soil carbon in rangelands

For further information, ask your ubiquitous Course Coordinator Lindsay Hutley

BOOK REVIEW

Don Watson “Death Sentence. The Decay of Public Language” Random House Australia, 2003

Does your brain go to mush when you read a paragraph like this?:

‘Negotiation and persuasion are just as important in maintaining agreement and focus for the significant reforms which we have reached agreement about. The Government has worked hard to cement in place the negotiated settlements it has achieved. ...’

Or, a little closer to home, this recent extract from my Inbox:

‘The University has, as you will be aware, been actively considering its future directions, major functions and strategies to achieve. We have committed to engage more fully with the communities and people of the Northern Territory as well as with communities in our nearby region. ...Through such service and interaction with our various stakeholders we hope to deliver on the vision for Charles Darwin University: A thriving University that dares to be different and takes advantage of its unique geography and demography to benefit the whole community through education, research and community service.’

If so, perhaps you should read this book. If not, you should definitely read this book!

In it, Don Watson describes how managerial jargon has permeated the media, politics, government and education at all levels. He argues that such language stifles thinking and debate, and that it is ‘devoid of lyric or comic possibility, incapable of emotion, complexity and nuance’; it is dead language.

‘Death Sentence’ contains many examples of such language, with ‘its store of clichés, jargon, platitudes and weasel words’ that ‘hide or twist the truth’. Pad a political speech with this cotton wool, and ‘(TV) viewers will mentally yawn as their brains struggle for oxygen, and go back to the ironing for stimulation’. Perhaps just as dangerous as overtly Orwellian use of empty words and phrases is the way such language can impede clear thinking and extinguish debate, they ‘clog the language and cut us off from thought, feeling and possibility’. Examples are listed at the end of the book – they include ‘in terms of, commitment, enhance’. (Ouch).

Don Watson (his italics) considers that universities have seriously succumbed to this problem, and that they ‘talk about *achieved learning outcomes, quality assurance mechanisms and international benchmarking*. They throw *triple bottom line, customer satisfaction and world class* around with the best of them. The university might have no plausible claim to be among the best in the world. The terms might not describe the normal concerns of knowledge, educa-

tion and research. The words may not mean any sensible thing. No matter. Those who insist that the words *should* mean something can take the redundancy package.....Not only is managerial language inadequate to... fundamental questions about the nature of truth, it has no respect for them. It is not a language for serious inquiry or explanation, or even for thinking.’

I found this book refreshing in its criticism of so much of the ‘communication’ we are subjected to each day. However, I would have preferred a clearer, more explicit structure (the book is divided into a series of untitled sections, and I felt I meandered through it, not quite sure of where it was heading next). Also, reading it from cover to cover, I found it quite repetitive – there is really just one idea, although that idea is approached from several angles. I would also have enjoyed more discussion of the examples given, both good and bad – I didn’t see the point of some (maybe my brain has been blunted by too much manager-ese?) Overall, the book was often entertaining and sadly humorous, and I did like its message – it has strengthened my resolve to try and avoid using clichés and manager-ese in my own writing, and to encourage colleagues to do the same.

As Don Watson beautifully illustrates, we don’t use this language in our day to day dealings with family and friends. ‘No one says, *Hopefully we can have your commitment to a scenario in terms of the ute which will have you in place in a reasonable timeframe, Rover*. We say *Get in*, and Rover gets in’.

(All quotes, except the one from my Inbox, are from this book).



WEB-SITES

jobhunters:

Hallmark Editions have two very useful sites , one for environmental jobs:

<http://www.envirojobs.com.au>

the other is for jobs in research:

<http://www.researchjobs.net.au>

“NRMjobs” is another excellent site advertising jobs that TEM students are likely to be interested in:

<http://www.nrmjobs.com.au>

** The TEM HANDBOOK **

Has now been uploaded to the website and can be downloaded from the TEM page:

<http://savanna.cdu.edu.au/education/grad.html>

Flora of Australia

And for all you budding botanists, The **Flora of Australia** is now online, as the result of collaboration between the Australian Biological Resources Study and national and international botanical communities and institutions.

This is a world first for online delivery of an interactive, flora resource at a national level with a flexible, user-defined search interface. Clients can customise data delivery to suit their own needs. Information is available for a wide range of uses, such as school projects, habitat information for land managers, identification keys for naturalists, or species lists for environmental impact statements and land surveys. The information links to electronic distribution maps and much of the line art from the books. Around 8,500 taxa have been published so far in the Flora of Australia book series, and to date 4,500 of these are available in Flora of Australia online.

<http://www.deh.gov.au/biodiversity/abrs/online-resources/abif/flora/main/>

(Information for over 50 families extracted from the following nine volumes of the Flora of Australia book series: 3, 11A, 11B, 12, 16, 17A, 17B, 35 and 48).

Lynda's note: it is fantastic to have such information available on a free website. The only problem is that it is not comprehensive – a big gap is that the Myrtaceae are not there, so my initial search for *Eucalyptus* returned the message 'not found'!

FLORA OF AUSTRALIA



ONLINE

CONFERENCES & WORKSHOPS

13th International Soil Conservation Organization Conference (ISCO)

4-9 July 2004, Brisbane

This conference is held every 2 years and covers a broad range of issues in soil and water conservation, including urban and intensive land uses. The theme of the Brisbane conference is 'Conserving Soil and Water for Society: Sharing Solutions'. For details, visit the website: www.isco2004.org

Fifth Australian Workshop on Native Seed Biology

21-22 June, Brisbane

CALL FOR SUBMISSION OF ABSTRACTS

The Fifth Australian Workshop on Native Seed Biology, organised by the Australian Centre for Mining Environmental Research (ACMER) includes these themes:

- Seed Ecology (issues such as pollination ecology, seed dispersal by fauna and macrofauna etc.)
- Seed Production and Quality
- Seed Storage
- Dormancy and Germination Issues
- Establishment and Management
- Seed Biology Issues in Native Floriculture
- Progress in Developing Initiatives on Seed Biology

To download an expression of interest form visit:

<http://www.acmer.com.au/training/attachments/CallforAbstractsFifthAustralianWorkshopNativeSeedBiology.pdf>



Also in Brisbane, the **XXII International Congress of Entomology** will take place in August 2004. See www.ice2004.org

Australian Rangelands Society 13th Biennial Conference

5-8 July, Alice Springs

Brochures and information about this conference are available at their website:

<http://www.austrangesoc.com.au>

Ecology Journal Club for Postgrad Students & Staff

The Ecology "Journal Club" continues in 2004, and all postgrads and staff with an interest in Biology/GIS & Remote Sensing/ Environmental Management are encouraged to participate, if, as and when you wish.

Each week (Thursdays at 3pm, running for between 30 min to 1 hour), a volunteer selects a scientific paper of interest to them for discussion by the group. Meetings are held in room 14 of the Central Teaching Building (B24) at CDU.

If you would like to participate in the Journal club, email Barry Brook (barry.brook@cdu.edu.au) and he will add you to Journal Club mailing list.

Past papers have featured the relationship between science and natural resource management, communicating scientific results, tree-grass interactions in savannas, and some very useful statistical discussions—it's a great opportunity to expand your scientific horizons.

More information is available at the website at:

www.wildlife.ntu.edu.au/publications/ecol_journalclub.html

SEMINARS

SEMINARS AT CDU

Keep an eye on the seminars at CDU—the EH&S Faculty and Key Centre for Tropical Wildlife Management (KCTWM) are sharing a slot on Wednesdays from 12 noon to 1pm in the Business Lecture Theatre (22.01). The CDU website and Key Centre websites have details:

<http://www.ntu.edu.au/faculties/site/research/pgresearch/semprogram.htm>

<http://www.wildlife.ntu.edu.au/>

KCTWM Seminars for April to June

- 07/04/04 David Bowman Aboriginal landscape burning
21/04/04 Julian Gorman Feasibility of local, small scale harvests for Indigenous Australian communities
05/05/04 Sean Kerins Community-based management: Whaling in the Faroe Islands.
19/05/04 Don Franklin Bamboo: a biogeographic story at manyscales
02/06/04 Jen Koenig Timber harvest management for the Aboriginal arts industry
16/06/04 Diane Pearson Using GIS and RS to assist in sustainable management of the Top End's wild-life tourism icons
30/06/04 Barry Brook Extinction thresholds for 1202 species

School of Australian Indigenous Knowledge Systems

The School of Australian Indigenous Knowledge Systems (formerly Faculty of Indigenous Research and Education) also runs a seminar series. The next seminar will be held in conjunction with The Desert Knowledge Cooperative Research Centre, on Thursday, 25 March from 3.30-4.30 pm at the Seminar Room, Building 30, Charles Darwin University. Romy Greiner, CSIRO will present a talk "Multiple Use Opportunities for Northern Australia's Outback Regions".

CSIRO SEMINAR SERIES

These are held at CSIRO Seminar Room, Vanderlin Drive, Berrimah at 3.45 pm on Fridays
Visit the website: www.terc.csiro.au/seminars

- April 1: R&D Partnerships for Regional Development: Reflections on a decade of research and practice
Andrew Johnson, Chief, CSIRO Sustainable Ecosystems, Brisbane
April 23: The Future for Land Resource Assessment? A case study on the Tiwi Islands
Ian Hollingsworth, EWL Sciences, Darwin
May 14: Planning for Life after Ranger: Towards an environmentally sustainable Jabiru
Gary Scott, Environment Centre, Darwin
June 4: Caring for Country: Aboriginal land management issues across the Top End
Michael Storrs, Caring for Country Unit, Northern Land Council, Darwin
June 25: Indigenous Cultural Values and Water Management: Insights from the Daly region
Sue Jackson, CSIRO Sustainable Ecosystems, Darwin

TEMS Links

Tropical Environmental Management Students' Newsletter

Vol 5 No 1 March 2004

If undelivered, return to L Prior, Tropical Savannas CRC, CDU, Darwin 0909

The Northern Territory Field Naturalists Club meets on the second Wednesday of the month, at 7.45 pm in the FIRE seminar room (Bldg 30) here at CDU Casuarina. Guest speakers present informative talks on the flora and fauna of the region. There are also regular excursions. Contact Don Franklin: don.franklin@cdu.edu.au, phone

The Top End Native Plant Society meets on the third Thursday of each month at Marrara Christian School (corner of Amy Johnstone and Macmillans Rd). The meetings start at 7.30 and invited guest speakers provide insight into various aspects of Top End flora. Visit their website for more info:

<http://tenpsnt.tripod.com/>

If you want to be removed from our mailing list (electronic or hardcopy), please let me know by emailing Lynda.prior@cdu.edu.au

TEMSLinks—you didn't get at hard copy?

If you didn't get a hard copy of TEMSLinks, it probably means we don't have a current address for you. To get your hard copy in future, email me and I'll put you on the list.

If you would prefer NOT to get a hard copy, or email notification, please let me know. Lynda (Lynda.prior@cdu.edu.au)

Meanwhile, past editions of TEMSLinks are available on the TS-CRC website at: savanna.cdu.edu.au/education/tems_newsletter.html