



ISSUE 141
MAY 2005

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To print a paper copy of Profile. Click on the link below and print the resulting page to A4 paper...

Australian Society of Soil Science Inc.

ARBN 080 783 106
ABN 96 080 783 106
www.asssi.asn.au

The ASSSI was founded in 1955 to work towards the advancement of soil science in the professional academic and technical fields. It comprises a Federal Council and six branches (Qld, NSW, Riverina, Vic, SA and WA). Liability of members is limited.

Objectives

- To advance soil science
- To provide a link between soil scientists and members of kindred bodies within Australia and in other countries

Specific Objectives

- To promote the field of soil science
- To further the expertise in soil science of members
- To be a forum for discussion on soil science
- To increase government and community awareness of soil science
- To liaise and cooperate with other organisations in support of mutual interests
- To encourage research and extension in soil science
- To promote wise management of the soil resource throughout Australia

Membership

For all membership and CPSS

Profile

THE OFFICIAL NEWSLETTER OF THE AUSTRALIAN SOCIETY OF SOIL SCIENCE Inc

Following in the Footsteps of a Soil Science Pioneer

When Geoffrey Leeper studied the Mt Gellibrand area in 1936, he published new information on the soils and pasture species in this part of Western Victoria. The study area was chosen by Leeper as he believed it to be representative of the soils on the volcanic plains. Furthermore, it contained a volcanic cone that added interest and diversity. Leeper described nine soil types as well as speculating on their pedogenesis. The study uniquely used aerial photography, perhaps for the first time in Australia) to assist in identifying soil types and producing a soil map.

In November, thirty-three participants from the Victorian branches of the ASSSI and the Geological Society of Australia travelled from Melbourne and Geelong to experience the geology, geomorphology, soils and landscapes described by Leeper nearly 70 years ago.

Travelling west from Geelong, the group was treated to a commentary by Bernie Joyce on the origins of the landscape. A quick stop at the Armytage basalt quarry satisfied the soils and geology personnel. Evidence of soil formation and erosion could be seen by the fairly shallow soil on top of the approximately 2.25 mya Tertiary basalt. Arriving at Mount Hesse the group was provided with an excellent morning tea in the shearing shed followed by some history of the area and anecdotes of Geoffrey Leeper courtesy of Lachlan Gordon and family. They then took a spectacular bus trip up to the top of Mount Gellibrand and viewed the first of several soil pits for the day.



ABOVE: Various forms of transport were used on the day including this chariot.

Revisiting this area allowed for additional information to be collected to enhance and provide a modern perspective of the Leeper survey. No soil information has been collected in the Mt Gellibrand area since the 1936 survey as the area was not re-surveyed as part of the Maher and Martin (1987) or Robinson et al. (2003) studies. Soil pit site characterisation and analysis was carried out as part of the Statewide Soil Reference Sites project led by Mark Imhof. This project aims to characterise and classify Victorian soils and provide information relevant to their management. An additional benefit of the project is in raising the awareness and understanding of soils through field days such as this trip. The excursion was conceived and co-ordinated by Jack Holland from the University of Melbourne with major contributions from Mark Imhof, Bernie Joyce, John Martin and Angela Murphy.



ABOVE: Discussions at soil pit site MtG3 on the Victorian Branch's Mt Gellibrand excursion.

LATE NEWS

Vale Cliff Thompson

Sadly, eminent soil scientist and ASSSI Honorary Life Member, Cliff Thompson passed away on Sunday 8th May. His funeral will be held Friday 11th May at the Anglican Church, Brookfield, Brisbane. Members wishing to pay tribute to Cliff and his career are welcome to send submissions to the [editor](#) which will be published in the next issue of Profile.

CPSS Modifications On the Way

application and renewal enquiries contact the ASSSI executive officer, Linda Bennison at asssi@bigpond.net.au, phone (03) 5622 0804 or fax (03) 5622 0806.

Profile Deadlines 2005

1 Mar, 1 Jun, 1 Sep, 1 Dec

Advertising

Advertising relevant to some aspect of soil science is welcome. Banner (20cm x 4cm) and box (20cm x 12cm) advertisements which are hyperlinked to a website cost \$110 and \$220 (incl GST) per issue, respectively. Information about ASSSI conferences, courses, scholarships etc is published free. Click [here](#) for more information.

Contributions

All contributions are welcome and can be sent to the editor at jwhite@bigpond.net.au, PO Box 936 Biloela Q 4715 phone (07) 4992 6041 or fax (07) 4992 6043.

Federal Council Meetings 2005

4 Feb, 6 May, 8 Jul, 2 Sep, 4 Nov

The process for joining the CPSS scheme is being revised. It will be less onerous for the experienced and well-recognized soil scientists to enter the scheme, requiring their curriculum vitae, an application form and the On-going Professional Development diary for the previous calendar year to be submitted to the CPSS Board.

Some of the other forms have been modified to clarify some parts, especially the OPD diary.

A new category of CPSS is being developed to cater for newly graduated soil scientists in the CPSS scheme. A Stage one scientist requires five years experience thus the introduction of the CPSS Associate with less than five years experience can assist new graduates in their professional development. More information will be available later in the year.


The CPSS Board is planning to meet 4 times during the year to assess the diaries of the current CPSSs, conduct the audit of CPSS chosen randomly for audit each year and to consider applications from ASSSI members to the scheme or from CPSSs for reclassification within the scheme.

A list of those who are currently (2004) accredited are available on the ASSSI website. At this stage online data entry on the OPD diary page is not available on the web. Extra funds are required to employ someone to add the spreadsheet and have it interactive, so it can be used on-line. This issue is to be raised at the next Federal Council meeting.


It appears that some government contracts and tenders are beginning to stipulate that accredited scientists are to carry out certain tasks. To date, SA and NSW government offices have contacted the ASSSI office regarding the CPSS scheme. This is pleasing news for our CPSS members who maintain a firm commitment to ongoing professional development through their annual CPSS accreditation.

We welcome two new board members, Dr Pam Hazelton and Mr Stuart Macnish to the Board and thank retiring members Dr Rob Fitzpatrick and Mr Rick Morse who have made an invaluable contribution to the development of CPSS during the past two years.


Do you have a problem on the horizon?
Environmental & Earth Sciences have an aggregate of soil scientists that would be more than happy to assist in all areas of contaminant and soil science.
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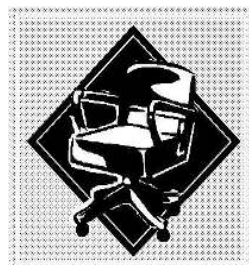
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Quality Assured (and jokes too)



From the president

When Cam Grant wrote in the December 2003 Profile that he had "been told on numerous occasions during 2003 that ASSSI now teeters on the brink of becoming either a significant professional organization capable of making a major contribution to Australia, or else slipping back into a minor parochial body that engages in endless navel-gazing and just bumbles along", I was surprised that such polarized views of the Society would exist. It seems that I had simply not been paying enough attention to what people were saying.

Indeed, similar polarized views exist on the current state of soil science. Some soil scientists perceive that our discipline is in a poor state, and that the situation is rapidly deteriorating. I disagree! So do many others. There is little doubt that the traditional role of soil scientists in agriculture has diminished, but soil scientists have found a great number of other niches where their skills are appreciated - roles in environmental science, in particular, stand out. You will find

REMINDER: SUBSCRIPTIONS OVERDUE

ASSSI subscriptions are now overdue. To ensure your membership continues please pay your subscription fees as soon as possible. Contact the Executive officer if you need a new notice prepared.

Remember to also cast your vote for the adoption of the new Rules on your subscription notice.

ANNUAL GENERAL MEETING

Notice is hereby given that the Annual General Meeting of the Australian Society of Soil Science Incorporated will be held in Room 324, Hartley-Teakle Building, University of Queensland, St Lucia on Thursday the 25th August 2005 starting at 6.30 pm.

Agenda

1. Welcome from the Chair
2. Apologies & proxies
3. Minutes of the previous meeting
4. Presidents

clear evidence of this in the proceedings of our recent SuperSoils conference, and in the wide range of soil science journals.

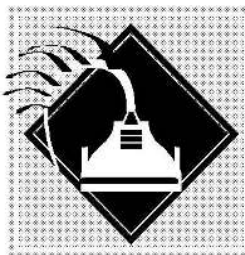
Nevertheless, agriculture still needs us. There has been a great upsurge of interest in "soil health" with farmers taking a more comprehensive view of their soil and its management. Furthermore, farmers are increasingly presented with new products and management techniques which are designed to improve the "health" of their soils. Some of these work well and, as scientists, we understand why they work. Others do not work, and we understand that too. Then there are the ones that we know little about - some of which may work well and be of great value, others little more than over-marketed dishwater. Clearly, there is much soil scientists can contribute and learn in this area.

What of the role of soil science in the environment? Recently I was told that "Environmentalism is dead" - the proponent's argument being that concern for the environment is now mainstream; the normal way of doing business. To a large extent, I accept that this is true; and I consider that this is good for soil scientists. We are, in general, pragmatic people, capable of delivering workable and affordable solutions to many environmental problems. Fortunately, our role in solving environmental problems is well recognized, with the Society's accreditation scheme (CPSS) increasingly used to identify people capable of addressing soil-related problems.

Soil scientists are working on global warming, waste disposal/reuse and sustainable farming. There are exciting possibilities in biodiversity (>90% of it is in the soil) for bioremediation, gene mining for novel drugs - and goodness knows what else. The future of soil science is bright, we just need to recognize that the future covers a much broader spectrum than the past. The future of our Society will depend on how we respond to the changing world of soil science. My view, from my local branch (Queensland), is that the future of ASSSI is as bright as that of soil science.

Finally, on a much more down to earth note, if you haven't already done so, please remember to vote on our new ASSSI rules when you pay your subscription.

Neal Menzies



From the editor's desk

Well there has been plenty of feedback about the new Profile format. For the most part, people have been happy ("enjoyed the latest Profile, very easy to read"; "totally love the new Profile format"; "the new Profile looks great and worked really well!"). The biggest advantages seem to be that it isn't clogging people's email systems and is much easier to read on-screen.

However, some members still like to print out a paper copy of Profile to read (on the plane/train or just prefer a hard copy), and the January issue didn't print well. Therefore, for this issue we have created a printer-friendly version which can be accessed by clicking the button on the contents page. I would still encourage people to get used to reading Profile on-screen where possible to get the benefit of the full-colour presentation and the ability to use hyperlinks to contact people or to quickly access advertisers home pages or articles of interest.

I've also had some suggestions from members about the type of material they would like to see in Profile - see the Letters section for more details. This is great - as editor I would be ecstatic to receive some 'meaty' articles that might prompt debate and discussion. I can encourage, suggest and solicit articles, but unfortunately I can't write them for you. 'Newsy' articles are always welcome, and a short piece of 3-500 words with a picture about a topic that interests you can help you make contact with others who are interested in the same issues.

As always, if you have any feedback on Profile, or any of the articles in this issue, please [contact me](#).

Finally, thanks to those members who have sent their congratulations on the arrival of my little daughter in March. She is so far proving to be great fun for her Dad and I, and is keeping us both very busy.

Until next time,

Jonnie White

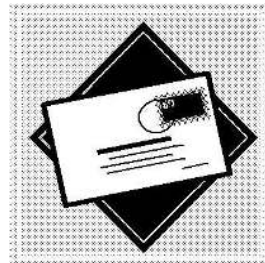
Report
5. Treasurers Report
6. Appointment of an auditor
7. Special Resolution: to adopt the new Rules of the Australian Society of Soil Science Inc
8. Other business

Advance Notice
Leeper Memorial Lecture
 25 November 2005
 5pm University of Melbourne

The World's Biggest Water Filter: Our Soil

Brent Clothier
HortResearch,
Palmerston North, New Zealand

More information will be provided in the next issue of Profile.
 The annual Leeper Memorial Lecture is organised by the Victorian branch of ASSSI.



Letters

Dear Jonnie

... I believe we should seriously think about Profile and the impact that it has and will have. I don't know many people who like to read newsletters on-line and for all the convenience that it provides there are drawbacks. We should aim at producing a good quality newsletter to advance and promote what is happening in soil science.

There is need to keep the focus of Profile as scientific, not soil social. I suspect that the problem of increased file size is partly due to Profile including numerous photos. Do we really need to have smiley group photos in every edition? Some choice photos are good, but they should be chosen carefully so that we don't have file size problems. Also, do we really need to have a newsletter 4 times a year? Maybe by reducing the number of times that it comes out we can spend more time on individual issues rather than having to churn something out so often.

Have you seen the NZ society's Soil News? Or the British Society's newsletter? If not, then I recommend that you try to see them. By way of an example, in the NZ's Soil News there is a section reporting "News from correspondents" detailing activity and work done from the major soil science organizations/ centres from around NZ. Can we adopt a "News from all agencies/ organizations in soil science" section? This would be done by each branch contributing "summary highlights" of recent activity, from our universities, state departments etc.; the commencement of a new project, the extension of another, the addition of a new staff member or the departure of another and so on. News about what is happening in soil science not just news about what the local ASSSI branch has done.

Also why is that the British and NZ society's can both afford hard copies to be sent out? I think that it is only fair that hard copies are sent to those members who have retired or are in distant locations where e-mail/ internet isn't so good. Is printing more expensive in Australia?

Profile is good, but it could be better and I'm sure learning from what other society's do could be one way in achieving that. Hopefully you'll take my comments as constructive and that you'll take Profile to new heights whilst you are the editor...

Regards,
Jonathan Holland

V V V V V V V V

Dear Jonnie,

Are there any extrovert soil scientists out there who want to speak on radio? Or even shy, retiring types who would like to "have their say, without interruption, on science and society"?

Ockham's Razor is a 12 minute program on ABC Radio National on Sundays at 8:45 am, and repeated on Mondays at 2:15 pm, where scientists, and others, can talk about a topic that interests them. The program may be a good opportunity to promote soil science within Australia, and particularly the 50th anniversary of the Society.

In my many years of listening, I have found that most programs run by the science unit of the ABC focus on medical or environmental issues, with very little on agriculture in general or soil science in particular. Is there a bias in the ABC's science unit, is our work just too "agricultural" or is it that we don't seek the limelight?

Can somebody please stand up and speak out about our successes in soil science, our works-in-progress and the issues that affect our work? You simply write your piece, and the producers help you record it. But not me—I'm too shy.

Yours sincerely,
Kerry Greenwood
(who would rather dig a soil pit by hand than speak on radio!)

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Branch news

RIVERINA

The Riverina Branch enjoyed a day of 40°C heat in 43-68 kph wind for its meeting at the Coleambally Demonstration Farm in November. Soil surveyor, Janet Wild, normally our Publicity Officer, is shown entertaining the 18 scientists with her description of the properties of gilgais on

the farm. Janet is wearing the latest in pedological attire, designed to protect against snakes.

QUEENSLAND

Yoicks! Can it be that long since last the Qld branch made its presence felt in Profile? Afraid so - but then we did have the small matter of ISCO to distract us and a busy year of branch activities (see below).

This year is shaping up to be just as busy in the Sunshine State. Our first OGM (Student Night) will be held on 17 March and we are looking forward to hearing Dr Rob Fitzpatrick address the meeting. Rob is the Director of CAFSS - the Centre for Australian Forensic Soil Science, based in South Australia. Rob will speak about the Centre and what it does, and give some very interesting case studies describing how analysing soil has helped solve a number of crimes, including murder!

In April we are running another 2-day Refresher Training Course and in May the biannual Ron McDonald lecture will be held as the precursor to a gala dinner to celebrate ASSSI's 50th anniversary.

And finally (for now), Jessica Gutknecht from James Cook University was awarded the Qld ASSSI Undergraduate Award for excellence in soil science for 2004. Jessica received a certificate, cheque, books and membership to ASSSI. Well done!

2004 Queensland Branch Activities:

Date	Speakers	Topics	Attendance
27 November 2003 (Undergraduate Awards night)	Mr Malcolm Gillies (USQ) Ms Kate Rigg (UQ) Mr Benjamin Love (GU)	Techniques for calculating the infiltration characteristics for surface irrigation beyond the advance time Zeolite - rock phosphate fertilisers. How do they work and can all plants do it? Environmental controls on wind erosion	19 members 11 visitors
10 March 2004 (Student night)	Dr Angus McElnea Dr Janet Hussein Mr Cyril Ciesiolka	How to survive a PhD with your hair intact Life as a soil scientist What about soil science?	25 members 2 visitors
20 May 2004	Mr Bruce Carey and Dr John Standley	Presentation of old films General Discussion	16 members
18 June 2004 (AGM)	Outgoing Branch President Andrew Biggs	Expanding our horizons: an uphill climb or a downhill run?	32 members 8 visitors
19 August 2004	Dr John Standley	From South Johnstone to Toowoomba via Biloela - enterprises of an agricultural chemist	23 members 3 visitors
7 October 2004	Dr Peter Grace	Carbon sequestration in soils - assessing options	17 members 2 visitors
18 November 2004	Dr Bob Myers Dr Anthony Whitbread	The Mlambos, the Moyos, and me - models and manure in Matabeleland Applying APSIM to soil fertility studies and risk management with smallholder farmers in Southern Africa	31 members 7 visitors



ABOVE: The Riverina Branch met at the Coleambally Demonstration Farm on a hot, dry day in November.

VICTORIA

A Victorian's View of SuperSoils 2004

Super is not a word that scientists tend to use (we tend to be more sedate and precautionary). But I think that this does summarize the conference in one word. The venue for the conference in the 'old world' Sydney University was excellent. Although some of the lecture rooms were small, it was advantageous to have all rooms within the confines of one venue. Presentations covered a wide scope of soil science and were of excellent standard. The conference provided the opportunity to meet new people and catch up with past acquaintances from Australia and New Zealand. I would like to thank the organizers, Graham Tupper and cohorts, for excellent organization.

Kerry Greenwood



ABOVE: Victorian Branch members at SuperSoils 2004.

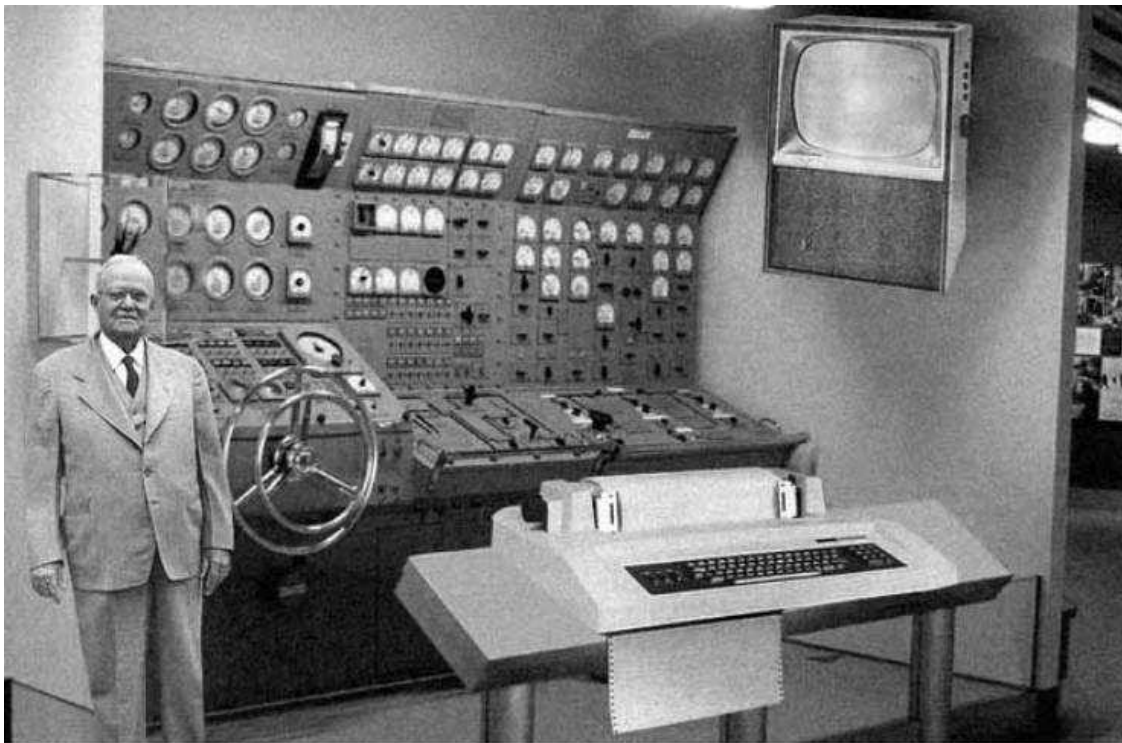
How Good Are We At Predicting Future Science?

Circulating by email at present is the following picture from a 1954 issue of the Popular Mechanics magazine. The best and brightest in their field at the time predicted that the home computer in 2004 might look something like this, but conceded it would be too expensive for the average home. Imagine how much like science fiction it would have seemed to these guys had someone suggested that nearly every home would have a computer sitting on a desk-top and many kids would carry one to school in their bags! It just goes to show that sometimes it's our imagination that just isn't powerful enough to predict the future.

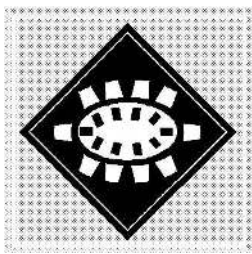
Would any members like to have a go at predicting what the face of soil science might look like in 2055??

NEW SCIENCE AND ENVIRONMENT WEBSITE

A new website entitled [Science Alert](#) has become available for publicising science and environmental research news. The site contains articles from some of Australia's leading research organisations, conference announcements, a calendar of events, and jobs notices. It can be found at www.sciencealert.com.au



Scientists from the RAND Corporation have created this model to illustrate how a "home computer" could look like in the year 2004. However the needed technology will not be economically feasible for the average home. Also the scientists readily admit that the computer will require not yet invented technology to actually work, but 50 years from now scientific progress is expected to solve these problems. With teletype interface and the Fortran language, the computer will be easy to use.



Federal Council minutes

Minutes for Federal Council Meetings are available by following these links:

- ▶ [Federal Council Meeting 223 - 4 Feb 2005 \(Teleconference\)](#)
- ▶ [Federal Council Meeting 224 - 4 March 2005 \(Teleconference\)](#)

The next Federal Council meeting is to be held by teleconference on 6 May 2005.

New Members

The ASSI welcomes the following new members...

Member	Branch	Interests
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AUSTRALIAN CONTROLLED TRAFFIC FARMING CONFERENCE

The University of Queensland, Gatton Campus
20-22 July 2005

A farm-focused forum for growers, advisers, scientists and technology providers.

Sessions include:

- Broad acre controlled traffic
- Raised bed farming
- Farm layout, soil impacts, resource conservation and environment
- GSP and guidance technology

Mr Ian Grange	NSW	PhD student at University of Sydney, Orange studying soil carbon dynamics in relation to land use with a focus on NSW
Ms Rebecca Lines-Kelly	NSW	Soils communication
Mr Timothy Neale	Qld	In-field soil assessment and general agricultural consulting (property mapping/planning, precision agriculture, catchment planning)
Dr Timothy Smith	Qld	Soil nutrition, interactions with soil type, soil chemistry and soil classification
Mr Shane Waechter	SA	Soil description, identification classification and interpretation for irrigation design, rootstock selection and provision of soil amelioration recommendations.

- GIS, yield mapping, imagery and their applications
- Farm systems: how do we change?

For more information visit www.ctf05.org

New Member Profile

The ASSSI welcomes on board, Ian Layden, 2004 Undergraduate award recipient from the Qld Branch.

Location: Coolum Beach- Sth East Queensland.

Qualifications: B. Sc. (Env) , Honours in progress. – University of the Sunshine Coast.
Began B.Sc. degree in Rockhampton (CQU), transferred to Sunshine Coast to complete final 2 years of undergraduate degree.

Current Project : Investigating the abiotic constraints on wetland ecotonal areas, Fraser Island, Sth. East Qld. As a sand island, Fraser Is. comprises dunal complexes that are 200-300m high with giant podosols that have pronounced Bhs horizons. This honours project attempts to quantify the role of slope, hydrology and soil parameters and how this influences the landscape ecology exhibited in these areas.

Previous work history: new to the environmental sciences field following a 15 year career as an Advanced Care Paramedic.

Areas of Interest: I have a particular interest in geomorphology or change at the landscape level. My interest in soils arose following undergrad projects that looked at the fluvial processes of sedimentation.

ASSSI benefits: I was genuinely surprised to receive the 2004 undergrad award from the Qld Branch of ASSSI and anticipate that the Society will be of great benefit to me in providing connections to other members that have experience in podosol development.



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IUSS News

The current issue 106 of the IUSS Bulletin is available on the [IUSS website](#).

IUSS Responds to the Tsunami Disaster

The IUSS is in the initial stages of developing two initiatives in response to the Asian Tsunami Disaster. The first is to organise a workshop or series of workshops in one or more of the affected regions to consider the consequences for soil and land management of the large scale inundation of saline water and associated sediments, both in the immediate aftermath of the disaster and in terms of the restoration and regenerative activities that will be necessary to bring the soil and land systems back to productive use. This initiative is being lead by the Chair of Division Three, Wolfgang Burghardt in collaboration with colleagues from the affected regions and it is hoped to hold these workshops later in 2005. The second, and as yet embryonic, response is to seek to organise a support system to assist in the recovery and re-establishment of the soil and agricultural centres devastated by the tsunami in the region. To this end, the IUSS are seeking evaluations from colleagues in the countries affected and identification of what is needed; books, scientific journals, equipment, etc.

Establishing December 5th as World Soils Day

The IUSS are moving forward slowly to secure funding and official approval for the establishment of December 5th as World Soil Day, and also to establish a World Soil Prize. Additionally, in collaboration with GeoScience Unions (IUGS, IUGG, IGU) the IUSS is actively working towards the establishment of the 'Year of Planet Earth'. More information is available in the current issue of the [IUSS Bulletin](#).

18th World Congress of Soil Science

Copies of the second announcement for the 18th World Congress in Philadelphia in July 2006 have been circulated recently. The Congress schedule includes pre-, post- and mid-conference tours as well as 81 symposia. Registration is just US\$550 for the week-long conference and you can register on-line at the congress [website](#). Abstracts of papers are to be submitted for consideration prior to 15th September 2005.

Professor Stephen Nortcliff, Secretary General



Contents of the Australian Journal of Soil Research Volume 43 Number 2 2005 are available on the [CSIRO Publishing website](#).

Monitoring soil moisture status in a Black Vertosol on the Liverpool Plains, NSW, using a combination of neutron scattering and electrical image methods R. I. Acworth, R. R. Young and A. L. Bernadi pp. 105-117

Consequences of soil map unit uncertainty on environmental risk assessment T. H. Webb and L. R. Lilburne pp. 119-126

Quantitative soil-landscape models for the Haldon and Hurunui soil sets, New Zealand Jochen Schmidt, Phil Tonkin and Allan Hewitt pp. 127-137

Soil compaction around Eucalyptus grandis roots: a micromorphological study E. P. Clemente, C. E. G. R. Schaefer, R. F. Novais, J. H. Viana and N. F. Barros pp. 139-146

Mineral and elemental distribution in soils formed on the River Niger floodplain, eastern Nigeria C. A. Igwe, M. Zarei and K. Stahr pp. 147-158

Leaching of macronutrients and metals from undisturbed soils treated with metal-spiked sewage sludge. 3. Distribution of residual metals R. G. McLaren, L. M. Clucas and M. D. Taylor pp. 159-170

Enumeration of wax-degrading microorganisms in water repellent soils using a miniaturised Most-Probable-Number method Margaret M. Roper and V. V. S. R. Gupta pp. 171-177

Total soil organic matter and its labile pools following mulga (*Acacia aneura*) clearing for pasture development and cropping. 2. Total and labile nitrogen R. C. Dalal, B. P. Harms, E. Krull, W. J. Wang and N. J. Mathers pp. 179-187

Competitive sorption reactions between phosphorus and organic matter in soil: a review C. N. Guppy, N. W. Menzies, P. W. Moody and F. P. C. Blamey pp. 189-202

Responsiveness of wheat (*Triticum aestivum*) to liquid and granular phosphorus fertilisers in southern Australian soils T. M. McBeath, R. D. Armstrong, E. Lombi, M. J. McLaughlin and R. E. Holloway pp. 203-212

The influence of potassium and defoliation of ryegrass on the formation of acidic subsurface layers in stock urine patches J. R. Condon, A. S. Black and M. K. Conyers pp. 213-223

May 2005

12 -13 May: (New South Wales) Field Trip, "Soil and Landuse Issues of the Southern Tablelands". Contact Greg Chapman - 0411 020 565.

24 May: (South Australia) Lecture, "A biogeochemical cycle of gold in the Australian regolith" by Frank Reith, CSIRO. Contact [Jock Churchman](#) - (08) 8303 7232.

31 May: (South Australia) Seminars by new PhD students, University of Adelaide. Contact [Jock Churchman](#) - (08) 8303 7232.

June 2005

7 June: (South Australia) Lecture, "The effects of changes in the funding system upon the processes and products of soils science in Australia and New Zealand 1973 - 2000", by Jock Churchman, University of Adelaide. Contact [Jock Churchman](#) - (08) 8303 7232.

9 June: (South Australia) Lecture, "Acid sulfate soils in the Garden of Eden: Southern Iraq Marshlands", by Rob Fitzpatrick, CSIRO. Contact [Jock Churchman](#) - (08) 8303 7232.

17 June: (Queensland) Branch AGM and presentation "Pedology 101: do we need to know any more about soil?", by outgoing branch president Robin Thwaites, QUT. Contact [Angus McElnea](#) - (07) 3896 9331.

July 2005

29 July: (Queensland) ASSSI 50th Anniversary Gala Evening and Ron McDonald Memorial Lecture "50 years of Land Resource Assessment - what's changed and what does the future hold?", by Mike Grundy, Dept Natural Resources and Mines. Contact [Angus McElnea](#) - (07) 3896 9331.

More information about these and other events are available by clicking [here](#).

Buy Sell and Swap

Members selling or looking for items of relevance to soil science are welcome to submit notices to the editor for inclusion in the Buy, Sell and Swap area.

SUCCESSFUL! Thanks to Dr John Knight who sent Cameron a copy of this book from the US where he was on study leave. ~~WANTED:~~ Copy of P.J. Kramer's "Plant & Soil Water Relationships" published by McGraw-Hill (1949).—Contact Cameron on 08 8303 7404 or cameron.grant@adelaide.edu.au



Conferences

11-15 June 2005: Annual Meeting of the Clay Minerals Society, Vermont, USA

<http://community.middlebury.edu/~cms/>

20-22 July 2005: Australian Controlled Traffic Farming Conference, Gatton, Qld

The University of Qld Gatton Campus

Contact: sally.brown@uq.net.au

www.ctf05.org

8 -13 August 2005: XXII World Congress, International Union of Forest Research Organisations (IUFRO), Brisbane

www.iufro2005.com

10-18 September 2005: 19th International Congress on Irrigation and Drainage, Beijing

Chinese National Committee on Irrigation and Drainage

cncid@iwhr.com

14-19 September 2005: XV International Plant Nutrition Colloquium, Beijing

Plant Nutrition for Food Security, Human Health and Environmental Protection

www.ipnc15.com

14-18 November 2005: 4th World Congress, Society of Environmental Toxicology and Chemistry, Portland Oregon, USA

www.setac.org/portland.html

28 Nov - 2 Dec 2005: First International Symposium on the Management of Tropical Sandy Soils for Sustainable Agriculture, Thailand

An holistic approach for sustainable development of problems soils in the Tropics.

www.tropicalsandysoils.org

28 Nov - 2 Dec 2005: Where Waters Meet, Auckland, New Zealand

Joint Conference of the New Zealand Hydrological Society (NZHS), International Association of Hydrogeologists (IAH), Australian Chapter and the New Zealand Society of Soil Science (NZSSS)

Abstracts deadline - 30 May 2005

www.wrl.unsw.edu.au/iah-auckland

30 Jan - 2 Feb 2006: 5th Australian Sorghum Conference, Gold Coast, Queensland

www.australian-sorghum-conference.org.au

14-19 May 2006: 14th International Soil Conservation Organisation (ISCO) Conference, Marrakech, Morocco

Contact: isco2006@wanadoo.net.au

9-15 July 2006 - 18th World Congress of Soil Science, Philadelphia, USA

www.18wcss.org

16-21 July 2006: 7th International Conference on the Occurrence, Properties and Utilization of Zeolites, Socorro, New Mexico, USA

Deadline for Abstract Submission: 1 April 2006

www.ees.nmt.edu/Zeolite06

3-7 December 2006: National Soils Conference, Adelaide

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