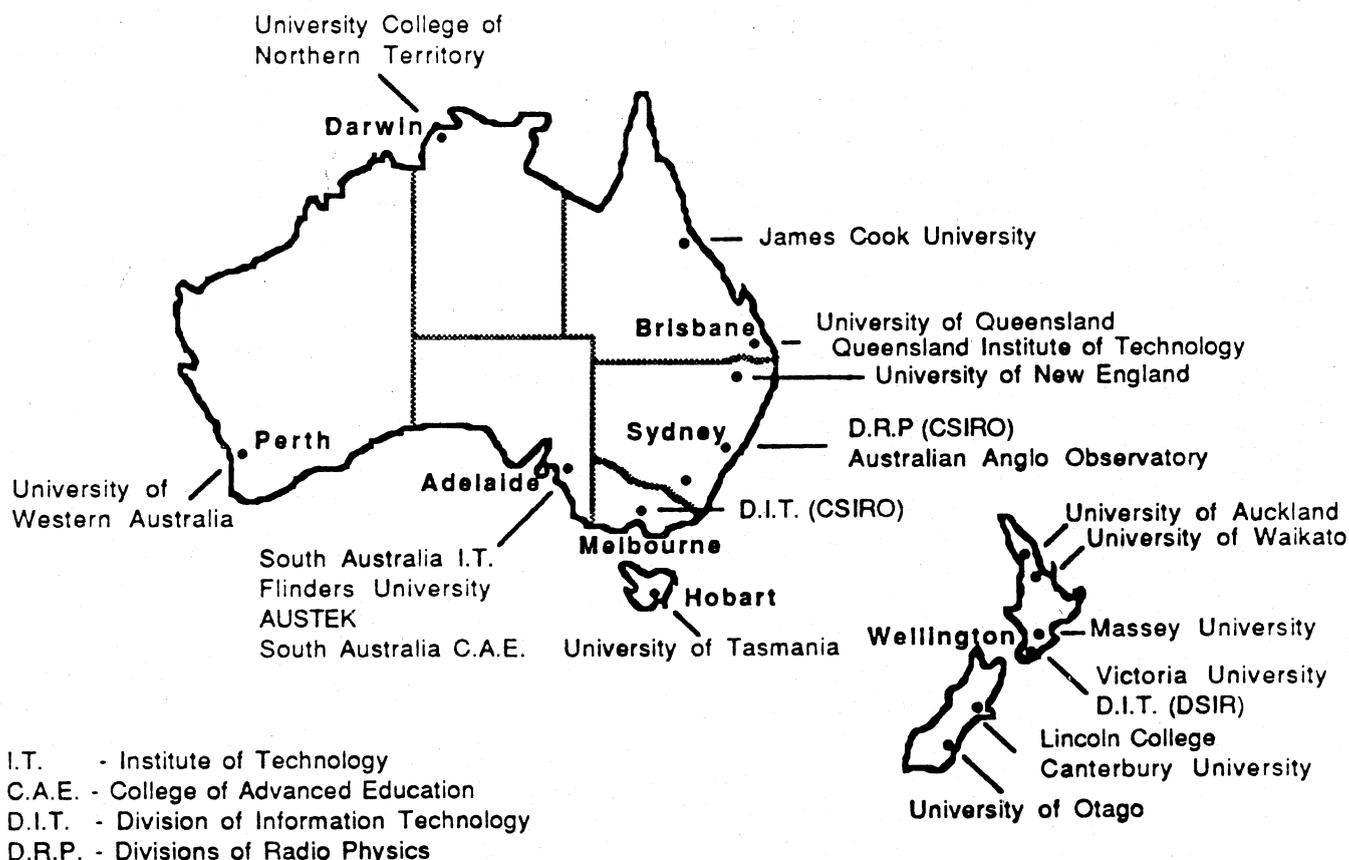


# SPEARNET NEWS

Issue No. 2

November, 1987



## SPEARNET SITES - December 1987

### SPEARNET

SPEARNET is a computer based communications network for the academic and research community in the Australian region.

The protocol set for SPEARNET is the JNT Coloured Book Protocol using the X.25 Packet Network as a transport mechanism. The main services provided are virtual terminal, file transfer and electronic mail. The protocols are available for a wide range of computers and operating systems.

### SPEARNET NEWS

*SpearNet News* is published by the SpearNet Interim Management Committee. The newsletter was prepared by staff at the Prentice Computer Centre, University of Queensland.

Enquiries should be directed to —  
Spearnews  
Prentice Computer Centre  
University of Queensland  
ST LUCIA Q. 4067  
Australia

Cbook: SPEARNET@AU.UQ.UQKL10  
Minerva: 07:UNQ006

ACSnet: SPEARNET@UQKL10.DECNET.UQ.OZ  
TELEX: AA40315 UNIVQLD  
FAX: +61 7 371 5896

This newsletter was typeset on a Compugraphics 8400 typesetter at the University of Queensland.

**SOUTH PACIFIC EDUCATIONAL AND RESEARCH NETWORK**

*File Over*

## COMMENT

**Alan Coulter**, Chairman, Spearnet Interim Management Committee, and Director, Prentice Computer Centre, University of Queensland.

It is pleasing to note that second SPEARNET newsletter has been produced, although it must be said that there is a limit to how far it is possible for the Prentice Computer Centre to provide on-going funding for this activity.

The Australian Vice-Chancellors Committee (AVCC) has now considered the report on Networking in Australia and Other Tertiary Institutions prepared on the Committee's behalf by Emeritus Professor A.S. Carrington. The report was also made available to the Australian Committee of Directors and Principals in Advanced Education (ACDP). As a result, a Joint AVCC/ACDP Working Party has been established to prepare detailed recommendations on networking for advice to and action by the AVCC and ACDP. This Working Party met on 1 October.

I hope that it will be possible to provide a list of the recommendations of the Carrington Report and views of the Working Party in a subsequent newsletter. At this stage, my observations are as follows:

- (a) Both AVCC and ACDP recognise the importance of networking and the topic will continue to be part of the formal agenda of those committees.
- (b) The concept of SPEARNET with Coloured Book as initial protocols is accepted.
- (c) Both SPEARNET and ACSnet should move to OSI standards as soon is practical.
- (d) The scope of the SPEARNET network developments should be limited in the first instance to Australia and New Zealand.
- (e) Without restricting current network developments, there is seen to be a need for a survey to assess the demand for inter-institutional network services, especially in regard to facilities required and volume of use.

The second SPEARNET Workshop will be held on 10-11 December at the University of Melbourne. The first workshop at University of Queensland was very successful and made

important contributions to the development of SPEARNET and network understanding. I am sure that the second, hosted by the CSIRO Division of Information Technology, will be no less successful.

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## JANET DIRECTORY

The University of Queensland has available copies of the latest JANET directory issued by the Rutherford Appleton Laboratories in the UK. This directory exists as a VAX/VMS command file for updating the site tables used by the UWIST coloured book implementation under VAX/VMS. It may be of use to non VAX/VMS sites for reference information such as finding the X.21 address of JANET sites and determining what services a site provides. It is available as the ASCII file [.NRS]IPSSO27.COM on the UQ micro VAX II WOMBAT. (AUSTPAC address 0505527372000090) and may be file transferred from other SPEARNET sites by quoting the user name GUEST and password GUEST.

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### Australian Name Registration Authorities.

The domains and their registered Name Registration Authorities (NRS's) are:

Domain	Name Registration Authority
.AU	krc@munnari.oz.au Robert Elz, Computer Science, University of Melbourne.
.OZ.AU	krc@munnari.oz.au Robert Elz, Computer Science, University of Melbourne.
.EDU.AU	mlegg@flinders.edu.au Mark Legg, Computer Centre, Flinders University of S.A.
.COM.AU	PSI%236520023::wfj Warwick Jackson, PRAXA, Melbourne.
.GOV.AU	PSI%222634014::csdf_milton David Milton, ABC.
.CSIRO.AU	hales@mel.dit.csiro.au (or hales@ditmelb.oz.au) Trevor Hales, DIT Melbourne, CSIRO.

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## List of known Australasian Coloured Book sites.

This following list comprises the known sites that are running an implementation of the United Kingdom's Coloured Book protocols. The protocols implemented are Yellow Book (Network Independent Transport Service), Blue Book (Network Independent File Transfer Protocol), and Grey Book (Network Independent Mail Protocol)

Listed with each site is the X.121 address to access the site, and the Yellow Book Transport String to access the Coloured Book facilities.

**University Of Queensland.  
(Prentice Computer Centre).**  
Name: UQKL10.UQ.EDU.AU  
Contact Person: Arthur Hartwig (07)377 4079.  
Mailbox Name: ARTHUR  
Postal Address: St Lucia, Brisbane. Queensland,  
4067.  
X.121 Address: 5052-737-20000  
Blue Book Transport String: 1.FTP  
Grey Book Transport String: 1.FTP.MAIL

Name: WOMBAT.UQ.EDU.AU  
Contact Person: Arthur Hartwig (07)377 4079.  
Mailbox Name: ARTHUR  
Postal Address: St Lucia, Brisbane. Queensland,  
4067.  
X.121 Address: 5052-737-20000-90  
Blue Book Transport String: .FTP  
Grey Book Transport String: .FTP.MAIL

Name: UQVAX.UQ.EDU.AU  
Contact Person: Arthur Hartwig (07)377 4079.  
Mailbox Name: ARTHUR  
Postal Address: St Lucia, Brisbane. Queensland,  
4067.  
X.121 Address: 5052-737-20000-94  
Blue Book Transport String: .FTP  
Grey Book Transport String: .FTP.MAIL

**University College Of  
Northern Territory.**  
Contact Person: Tery Anstey  
Mailbox Name: POSTMASTER  
Postal Address: G.P.O. Box 1341  
Darwin, Northern Territory.  
X.121 Address: 5052-898-30021  
Blue Book Transport String: .FTP  
Grey Book Transport String: .FTP.MAIL

**University Of New England.  
(Computer Centre).**  
Contact Person: Gordon Smith.  
Mailbox Name: GORDON  
Postal Address: Armidale, N.S.W. 2351.  
X.121 Address: 5052-677-22006  
Blue Book Transport String: .FTP  
Grey Book Transport String: .FTP.MAIL

**James Cook University.**  
Contact Person: Brad Cooper

Mailbox Name: B\_COOPER  
Postal Address: Townsville, Queensland. 4811.  
X.121 Address: 5052-777-21002  
Blue Book Transport String: .FTP  
Grey Book Transport String: .FTP.MAIL

**Flinders University.**  
Name: FLINDERS.EDU.AU  
Contact Person: Mark Legg.  
Mailbox Name: MLEGG  
Postal Address: Bedford Park, Adelaide,  
South Australia. 5042.  
X.121 Address: 5052-827-20012  
Blue Book Transport String: .SPCP.FTP  
Grey Book Transport String: .SPCP.FTP.MAIL

**University of Western Ausrtalia**  
Contact Person: Phil Dufty  
Mail Box Name: PO\_DUFTY  
Postal Address: Western Australia Regional  
Computer Centre, University of Western  
Australia,  
NEDLANDS W.A. 6009  
X.121 Address: 5052-938-2100020  
Blue Book Transport String Address: .FTP  
Grey Book Transport String Address: .FTP.MAIL

**University Of Tasmania. (Department  
Of Information Science).**  
Name: UTASMANIA.EDU.AU  
Contact Person: Rod Bilson.  
Mailbox Name: ROD  
Postal Address: G.P.O. Box 252C  
Hobart, Tasmania. 7001.  
X.121 Address: 5052-022-30003  
Blue Book Transport String: .SPCP.FTP  
Grey Book Transport String: .SPCP.FTP.MAIL

**South Australia Institute Of  
Technology. (Computer Centre).**  
Name: SAIT.EDU.AU  
Contact Person: Rollo Ross.  
Mailbox Name: CCAJR  
Postal Address: P.O. Box 1, Ingle Farm  
South Australia. 5098.  
X.121 Address: 5052-826-22004  
Blue Book Transport String: .FTP  
Grey Book Transport String: .FTP.MAIL

South Australia College of Advanced  
Education  
*Name:* SACAE.EDU.AU  
*Contact Person:* Ian McDonald  
*Mailbox Name:* MCDONALDI  
*Postal Address:* South Australia CAE  
Magill Campus, Lorne Ave. MAGILL SA 5072  
*X.121 Address:* 5052-833-22013  
*Blue Book Transport String:* .FTP  
*Grey Book Transport String:* .FTP.MAIL

Qld. Institute of Technology  
*Contact Person:* Alan Agnew  
*Mailbox Name:* ZICSAGNEW  
*Postal Address:* Q.I.T. Computer Centre  
George Street, Brisbane Q. 4001  
*X.121 Address:* 5052-722-23015  
*Blue Book Transport String:* .FTP  
*Grey Book Transport String:* .FTP.MAIL

Division Of Information Technology  
(CSIRO). (Computing Networking Group).  
*Contact Person:* Trevor Hales  
*Mailbox Name:* TREVOR  
*Postal Address:* 55 Barry Street, Carlton  
Melbourne, VIC. 3053.  
*X.121 Address:* 5052-334-30001  
*Blue Book Transport String:* .FTP  
*Grey Book Transport String:* .FTP.MAIL

Division Of Radio Physics (CSIRO).  
*Contact Person:* Paul Rayner  
*Mailbox Name:* PAUL  
*Postal Address:* P.O. Box 76, Epping. N.S.W.  
2121.  
*X.121 Address:* 5052-286-21001  
*Blue Book Transport String:* .FTP  
*Grey Book Transport String:* .FTP.MAIL

AUSTEK.  
*Contact Person:* Richard Sharpe  
*Mailbox Name:* RSHARPE  
*Postal Address:* Innovation House, Technology  
Park, The Levels. S.A. 5095  
*X.121 Address:* 5052-826-20000  
*Blue Book Transport String:* .FTP  
*Grey Book Transport String:* .FTP.MAIL

Australian Anglo Observatory.  
*Contact Person:* Helen Davies  
*Mailbox Name:* POSTMASTER  
*Postal Address:* P.O. Box 296, Epping. N.S.W.  
2121.  
*X.121 Address:* 5052-286-21000  
*Blue Book Transport String:* .FTP  
*Grey Book Transport String:* .FTP.MAIL

\* Sites formally registered with the EDU.AU  
Name Registration Authority are listed with a  
preferred site name. Other sites should register  
as soon possible.

## Standards Organisations.

American National Standards  
Institute (ANSI)  
1430 Broadway  
New York, NY 10018 USA  
Telephone +1 212 642 4900  
Telex 424296 ANSI UI  
Fax +1 212 302 1286

Association Francaise de Normalization  
(AFNOR)  
Tour Europe - Cedex 7  
92080 Paris La Defense, FRANCE  
Telephone +33 14 778 1326  
Telex 611 974 AFNOR F  
Fax +33 1 774 8490

Standards Association of Australia  
PO Box 458  
North Sydney NSW 2060  
Telephone (02) 963-4111

British Standards Institute (BSI)  
2 Park Street  
London W1A 2BS ENGLAND  
Telephone +44 1 629 9000  
Telex 266933 BSI G  
Fax +44 1 629 0506

Marketing Department  
Linford Wood  
Milton Keynes  
MK 146LE UK

Canadian Standards Association (CSA)  
178 Rexdale Boulevard  
Rexdale, Ontario M9W 1R9  
CANADA  
Telephone +1 416 747 4363  
Telex 06-989344  
Fax +1 416 747 4149

Electronic Industries Association (EIA)  
2001 Eye Street NW  
Washington, DC 20006 USA  
Telephone +1 202 457 4966  
Telex 710-822-0148 EIA WSH  
Fax +1 202 457 4985

European Computer Manufacturers  
Association (ECMA)  
Rue de Rhone 114  
CH-1204 Geneva, Switzerland  
Telephone +41 22 353634  
Telex 22 288 ECMA CH

Institute Of Electrical and Electronics  
Engineers (IEEE)  
345 East 47th Street  
New York, NY 10017 USA

Telephone +1 212 705 7960  
Publications Department  
445 Hoes Lane  
Piscataway NJ 08854-415 USA

**International Organization for Standards**  
1, Rue de Varembe  
Case Postale 56  
CH-1211 Geneva 20, Switzerland  
Telephone +41 22 341240  
Telex 23 88 7 ISO CH  
Fax +41 22 333430

**International Telecommunications  
Union (ITU)**  
International Telegraph and Telephone Consulative  
Committee (CCITT)  
Place des Nations  
CH-1211 Geneva 20, Switzerland  
Telephone: +41 22 995111  
Telex 421000 UIT CH

**National Bureau of Standards (NBS)**  
Technology Building 225  
Gathersburg, MD 20899 USA

**Standardiseringskommissionen i Sverige**  
Tegnergatan 11  
Box 3 295  
S-103 66 Stockholm, Sweden  
Telephone +468 230400  
Telex 17453 SIS S

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## Other Sources of Standards Documents.

**Malcolm Cardis & Associates**  
Box 495 PO  
Coogee NSW 2034  
Phone: (02) 665-8294

- CCITT Publications

**Superintendent of Documents**  
Government Printing Office  
Washington DC 20402 USA

- FIP, DOD, NBS. Documents.

**The Aust. Financial Review Info Line**  
Overseas Doc Delivery  
GPO Box 506  
Sydney NSW 2001

Telephone: (008) 22-1685

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## Australian Data Bases accessible via AUSTPAC.

### MEDLINE

*Contact:* Sandra Henderson  
(062) 621523  
Telex: AA62100  
FAX: (062) 571703

MEDLINE is administered by the National Library and Dept. of Health and offers a range of medical and health related data bases serving users ranging from University Libraries to individual practitioners and researchers. Enquiries can either be clinically orientated or enquiries useful in keeping researchers up-to-date with current developments in their field and providing regular listings of research reports.

### CLIRS

*Contact:* Mr Jon Duggan - Sales Manager  
(02) 959-5075  
Telex: AA151224  
FAX: (02) 925-0755

CLIRS is a comprehensive electronic law library containing many data bases on eg. legislations, Case law, Digests and Findings lists, legal practice notes, Company and Financial practice, Land Titles, Mineral Resources, training materials etc. These data bases have powerful retrieval and search facilities eg. on Catchwords.

### Information Express

*Contact:* Janette Taylor - Sales  
Coordinator (008) 338806 (Toll  
Free)  
Telex: AA151224  
FAX: (008) 209-2200

Information Express (IE) provides up to the minute information from national and international sources. This information includes - news headlines, commodity prices, weather, stock market prices, futures prices and specialised data from institutional providers. This service is useful for those particularly interested in up-to-the-minute perishable information. This data base has powerful search commands and fast retrieval.

## Australian Bibliographic Network (ABN)

*Contact:* Dr Warwick Cathro - Executive Officer (062) 621546  
Mrs Linda Groom - User Support (062) 621690  
Telex: AA62100  
FAX: (062) 571703

ABN provides a national on-line service accessing a data base of over 3 millions records of up-to-date information which describes books, journals, films, maps, sound recordings and other library materials, also where these items may be found in Australian libraries. This data base may be searched on-line by subject, title, keywords, author, series etc. during periods - Monday 9am - 7pm AEST and Tuesday to Friday 8.30am - 7pm AEST.

## AUSINET

*Contact:* John Cook (03) 541-5600  
Telex: AA33852  
FAX: (03) 543-3671

AUSINET a National on-line information retrieval service provides access to more than 40 data bases containing Australian full text, bibliographic and numeric information ranging from Accounting to Zoology. Key full text data bases include The Australian Financial Review, the CCH Case Digest Library and QTECH - QTECH being a data base of technological innovations which have been or are being developed in Queensland. QTECH is useful to a wide range of people involved in technology and can be searched rapidly by the user on any topic of interest.

Primary users of AUSINET include corporate libraries and information centres, government and academic libraries.

## CSIRO AUSTRALIS

*Contact:* Ms Sue Harvey - Manager (03) 418 7339  
Telex: AA30236  
FAX: (03) 419-0459

AUSTRALIS offers the ability to retrieve and manipulate scientific and technical information. This information

concerns Australian scientific and technical developments which until now have been very difficult to obtain. AUSTRALIS can answer questions such as ie. nutritional states of Australian children, who can give me details on SIRAGCROP?, or who is doing research on pepino, babaco, nashi, Kiwi fruit etc.

AUSTRALIS is available throughout Australia on CSIRONET. Over 30 databases are available and it expected that this number will grow rapidly.

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## International X.25 Packet Switching Networks accessible from Australia.

Country	Network
Australia	AUSTPAC, MIDAS, TELETEX, PSTN(*)
Austria	RADIO-AUSTRIA, DATEX-P
Belgium	DCS
Bermuda	IDAS, DCS (PSTN - Dial-out)
Brazil	INTERDATA, RENPAC
Canada	TELEGLOBE, DATAPAC, TELEGLOBE INFOGRAM, INFOSWITCH
Denmark	DATAPAK, NATIONAL PACKET NETWORK
Finland	DATAPAK
France	TRANSPAC, NTI, TELETEX (*)
French Carribean	DOMPAC
Reunion	DOMPAC
French Guyana	DOMPAC
W Germany	DATEX-P
Hong Kong	IDAS, DATAPAK
Hungary	NEDEX
Indonesia	SKDP
Ireland	IREPAK
Israel	ISRANET
Italy	DARDO, ITAPAC
Japan	DDX-P, VENUS-P
Korea Rep.	DACOM-NET (DNS)

Korea Rep.	DACOM-NET (DNS)
Luxembourg	LUXPAC
Malaysia	MAYPAC
Netherlands	DATANET, DATANE (PSTN Dial-out), DABAS
New Zealand	PACNET
Norway	DATAPAK, NORPAK
Singapore	TELEPAC
South Africa	SAPONET
Sweden	TELEPAK, NEW TELEPAK
Switzerland	TELEPAC, DATALINK
Taiwan	PACNET
Thailand	IDAR (To Australia only)
United Kingdom	IPSS, PSS, TELETEX (*)
U.S.A.	UDTS (ITT), DBS (WUI), TYMNET, TELENET, LSDS (RCA), DATAPAK (TRT), AUTONET, ALASKANET, COMPUSERVE, CONN- NET, MARKNET (GEISCO)

\* available in the near future.

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## SITE NAME REGISTRATION

Flinders University is the name registration authority (NRA) for the domain EDU (educational) within AU (Australia). All educational sites in SPEARNET should officially register their site name with us as soon as possible.

*Contact:* Ray McLean  
*Postal Address:* Flinders University, Bedford Park,  
 Adelaide,  
 South Australia. 5042.  
*SPEARnet:* rkmclean@flinders.edu.au  
*ACSnet:* rkmclean@cc.flinders.oz.au,  
*Tel.:* (08) 275 2130

Sites within other categories, that is COM, GOV or CSIRO, should contact the corresponding NRAs listed below if they have not already done so.

The Coloured Book sites currently registered within EDU.AU are detailed elsewhere in this Newsletter. Copies of the current registrations are available from FLINDERS.EDU.AU using ANONYMOUS FTP, that is by using FTP with a user name of ANONYMOUS and a blank password. Also listed are the NRS's for all domains within AU (available as the file AU). In addition there is a list of the recommendations on

choosing site names for sites within EDU.AU (available as the file NAMING).

## Site Name Recommendations

In the following, each recommendation is defined to be mandatory (M) or just plain desirable (D).

1. (M) That the JANET name ordering be adopted for Yellow Book transmission of information between sites in SPEARNET.

2. (D) That the user interfaces for mail systems (and FTP by default) adopt the RFC822 ordering (ie. as used in ACSnet and ARPAnet) and that any reversal of names be done before transmission and on receipt.

(This may seem clumsy but it appears that it is the only sensible way to go and it does guarantee a consistent ordering convention for all networks in use in Australia).

3. (M) That all sites use only the names registered with the NRA so that names are consistent across all of SPEARNET (allowing for ordering as per recommendation 2.)

4. (M) That there be a second-level domain EDU used by educational sites and that Flinders University be the recognised naming authority for the EDU sub-domain.

5. (M) Any sites wishing to register in the EDU domain must nominate a sitename for approval by the naming authority.

6. (D) Sitenames should be chosen so that they give a 'first-guess' possibility for the organization name. All names will (generally) be limited to the form SITENAME.EDU.AU. Sites are encouraged to 'field' all Yellow Book transfers coming in to a primary sitename and to re-direct local traffic to the appropriate sub-system.

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## SPEARNET WORKSHOP

The next Spearnet Workshop is being held in Melbourne on the 10th & 11th December 1987. Enquiries should be directed to:

Chris Chaundy  
 University of Melbourne  
 Computing Services  
 PARKVILLE Vic. 3052  
 Tel: (03) 344-7045  
 ACSnet: chau@murdu.oz  
 VAX/VMS PSI mail:  
 PSI%2334330003::chris

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