

# Maklumat Pertanian Malaysia

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## Fokus

Pusat Kebangsaan Dokumentasi Sains Sosial, India (NASSDOC)

### PENGENALAN

Pusat Kebangsaan Dokumentasi Sains Sosial atau National Social Science Documentation Centre (NASSDOC) telah ditubuhkan pada tahun 1970 oleh Lembaga Penyelidikan Sains Sosial India (Indian Council of Social Science Research (ICSSR)). Aktiviti-aktiviti dan program yang dijalankan oleh NASSDOC sebagai sebuah pertubuhan di bawah ICSSR adalah seperti berikut:-

### Aktiviti-aktiviti

(i) Pembinaan koleksi rujukan; mengumpul (a) tesis-tesis yang belum diterbitkan pada peringkat Ph. D dan diluluskan oleh universiti-universiti di India/dan tesis tesis luar negeri India (B) laporan-laporan tentang projek penyelidikan yang dikelolakan oleh ICSSR

dan lain-lain institusi sains sosial yang dibantu oleh ICSSR, (c) kertas-kertas kerja yang dibentangkan pada seminar dan konferens yang dibiayai oleh ICSSR, dan (d) terbitan-terbitan berkala yang bermutu tentang penyelidikan di bidang sains sosial.

- (ii) Memberi perkhidmatan reprografi dan salinanfoto
- (iii) Bergiat bagi pengawalan bibliografi tentang sains sosial dengan menerbitkan beberapa dokumen di bawah Research Information Series. (42 judul telah dikeluarkan)
- iv) Memberi bibliografi terpilih atas permintaan.
- v) Memberi perkhidmatan penyerahan dokumen untuk sarjana-sarjana dari luar Delhi.
- vi) Memberi maklumat bibliografi berkenaan dengan terbitan-terbitan India di dalam bidang sains sosial kepada agensi-agensi dokumentasi antarabangsa seperti International Committee for Social Science Information and Documentation di Paris dan kepada penerbit International Bulletin of Bibliography on Education, di Madrid
- vii) Memberi bantuan pelajaran kepada sarjana-sarjana untuk bekerja di perpustakaan-perpustakaan yang mereka minati
- viii) Memberi khidmat perunding kepada institusi-institusi sains sosial bagi tujuan menubuhkan pusat-pusat maklumat dan dokumentasi.
- ix) Memberi kemudahan bagi penglibatan kakitangan untuk menghadiri seminar dan konferen melalui pemberian kertas-kertas kerja dan memberi pertimbangan yang wajar secara aktif. Mereka juga dihantar sebagai wakil untuk menyertai kursus-kursus ulangkaji pendek
- x) Mengelolakan kelas-kelas Bachelor Library dan Information Science untuk pelajar-pelajar Andra Pradesh Open University di bawah naungan Northern Regional Coordinating Centre

MPM ialah sebuah buletin suku tahunan yang diterbitkan oleh Perpustakaan Universiti Pertanian Malaysia. Pandangan dan pendapat penyumbang tidak semestinya mencerminkan pandangan atau pendapat jemaah pengarang. Buletin ini diberi secara percuma atas permintaan. Sila alamatkan semua surat menyurat/pertanyaan kepada: Ketua Pengarang, Buletin Maklumat Pertanian Malaysia, Perpustakaan, Universiti Pertanian Malaysia, 43400 UPM, Serdang, Selangor.

Penasihat: Syed Salim Agha; Ketua Pengarang: Mohd. Ariff Arifin

Pengarang-pengarang: Badilah Saad; Hawa Abdul Majid; Kamsiah Mohd. Ali; Hafizah Hassan

Penyunting: Jama'yah Zakaria

- xi) Memproses cadangan-cadangan projek untuk pertimbangan ICSSR Committee on Documentation Series and Research Information bagi mendapatkan bantuan kewangan di dalam bidang dokumentasi
- xii) Membekalkan terbitan-terbitan ICSSR secara berbayar/percuma dan melibatkan diri di dalam pameran-pameran buku untuk menggalakkan penjualan, juga bagi penjualan terbitan-terbitan kerajaan India kepada institusi-institusi penyelidikan
- xiii) Melibatkan diri dengan perjanjian pertukaran terbitan antara pertubuhan-pertubuhan kebangsaan dan antarabangsa

## KEDUDUKAN MASA KINI

### Perpustakaan

*Waktu kerja:* Perpustakaan dibuka sepanjang tahun kecuali untuk hari-hari cuti am/kebangsaan (26 Januari, 15 Ogos dan 2 Oktober). Unit Bacaan dibuka dari pukul 9.30 pagi hingga 5.30 petang. Walau bagaimanapun masa-masa tersebut bergantung kepada waktu sibuk/lenggang. Lain-lain unit di dalam NASSDIC/ILRC bekerja lima hari seminggu (Isnin hingga Jumaat) dari pukul 9.30 pagi hingga 5.30 petang dan ditutup pada hari Sabtu, Ahad dan cuti-cuti yang diwartakan.

*Koleksi:* NASSDOC mempunyai sejumlah 20,500 dokumen yang termasuk tesis-tesis Ph.D., laporan-laporan projek penyelidikan dan kertas-kertas kerja. Koleksi ini boleh dibahagi-bahagi seperti di bawah:

(i) Terbitan-terbitan Berkala: Pusat ini mempunyai koleksi kebelakangan berjumlah lebih kurang 100,000 jilid terbitan berkala di dalam bidang sains sosial. Sejumlah besar terbitan berkala sains sosial India yang merupakan keluaran terkini, diterima secara tetap. Dokumen-dokumen, ILRC Holding List dan Periodicals in SSDC: A current List memberi maklumat lengkap tentang koleksi terbitan berkala yang terdapat di NASSDOC.

(ii) Sumber-sumber rujukan: Perpustakaan mempunyai koleksi rujukan am yang baik di bidang sains sosial yang mengandungi kamus/istilah, ensiklopedia, bibliografi, indeks, abstrak, dan sebagainya. Koleksi-koleksi khas termasuk buku-buku tentang metodologi penyelidikan di bidang sains sosial, penunjuk sosial dan status wanita. Tiga buku susunan NASSDOC, yang diterbitkan di bawah Research Information Series, iaitu Bibliographies in SSDC, Reference Sources in SSDC dan Social Science Research Methodology: A Bibliography boleh digunakan untuk mendapatkan bahan-bahan/alat-alat rujukan yang diperlukan.

(iii) Terbitan-terbitan ICSSR: Perpustakaan

menyimpan semua terbitan ICSSR yang perlu dibayar/percuma (buku-buku dan terbitan berkala dan juga terbitan-terbitan yang dibiayai melalui sumbangan ICSSR). Selain daripada senarai terbitan-terbitan ICSSR, satu panduan iaitu Guide to Books and Journal yang diterbitkan oleh ICSSR dan disusun oleh NASSDOC memberi gambaran yang lengkap tentang aktiviti-aktiviti ICSSR di bidang penerbitan

(iv) Laporan Penyelidikan dan tesis: Koleksi yang penting kepada pelajar-pelajar Ph. D dan penyelidik-penyelidik di bidang sains sosial adalah koleksi tesis Ph. D yang tidak diterbitkan dan laporan-laporan projek penyelidikan di bidang sains sosial. Usaha telah dilakukan untuk mendapatkan satu salinan tesis Ph. D yang tidak diterbitkan di dalam bidang sains sosial oleh Universiti-universiti India dan juga tesis-tesis luar negeri tentang India yang tidak diterbitkan. Lebih kurang 2,000 tesis Ph. D dan 1,000 laporan projek penyelidikan telah dikumpulkan. Untuk memudahkan pemerolehan bahan-bahan tersebut, dua senarai bibliografi bertajuk Thesis in SSDC dan Research Project Reports in SSDC: An Annotated Bibliography, yang dikemaskini dari masa ke semasa, telah disusun.

(v) Dokumen-dokumen di dalam bentuk mikrofilem: Terbitan-terbitan berikut yang termasuk jurnal-jurnal didapati di dalam bentuk mikrofilem/mikrofis di perpustakaan: (i) Annals of Indian Administration; (ii) Anthropological Society of Bombay Journal; (iii) Bombay Geographical Society Journal; (iv) Economic Working Papers (UK); (v) Gujarat Research Society Journal; (vi) Indian Linguistics; (vii) Psychological Abstracts; (viii) Social Action; (ix) A bibliography of Mughal India, 1526-1707, oleh R. A. Sharma; (x) Caste and Tribes of Southern India, oleh E. Thourston dan K. Ramachari, 7 jilid; dan (xi) beberapa naskhah tesis Ph. D. dan laporan Penyelidikan

*Pusat sumber antara perpustakaan:* Pusat ini telah ditubuhkan dengan kerjasama Jawaharlal Nehru University di dalam tahun 1975, dan perpustakaan-perpustakaan tempatan di India turut sama menyerahkan terbitan berkala kerajaan (iaitu laporan kerja, jurnal, suratkhobar, dan sebagainya), yang penting untuk penyelidikan tetapi kurang digunakan dan tidak kini lagi, kepada Pusat ini di alamat 35, Ferozshah Road, New Delhi. 38 buah perpustakaan di Delhi telah membuat penyerahan, terbitan-terbitan berkala mereka ke Pusat ini. Pada masa lalu, disebabkan kekurangan tempat menyimpan, lebih kurang 55,000 jilid telah dipindahkan ke tempat simpanan yang didapati di Jawaharlal Nehru University Library, New Mehrauli Road, New Delhi. Universiti tersebut baru-baru ini telah memberikan bangunan yang berasingan di kampus itu untuk menyimpan bahan-bahan tersebut. Ini akan membantu dalam pemerolehan daripada lebih banyak perpustakaan di Delhi bagi tujuan penyerahan bahan-bahan mereka.

## PROGRAM-PROGRAM DOKUMENTASI

Buat permulaan, dua kategori program telah dibuat: (i) Program-program yang dijalankan terus oleh majlis atau cara kerjasama dengan beberapa institusi, dan (ii) Program-program yang dibantu oleh Majlis di bawah Grant-in-Aid-Scheme. Penghuraian ringkas program-program di kedua-dua kategori tersebut adalah seperti di bawah:

### PROGRAM-PROGRAM ICSSR

#### NASSDOC Research Information Series

##### *Union List of Social Science Periodicals:*

Empat jilid Union List tersebut yang berkaitan dengan terbitan-terbitan berkala yang didapati di perpustakaan-perpustakaan Andhra Pradesh, Bombay, Delhi dan Karnataka telah diterbitkan dalam tahun-tahun 1971-72. Senarai di Delhi telah dikemaskini pada tahun 1978, 1982 dan 1985. Data yang terbaru, tercatat sejumlah 2,909 judul terbitan berkala di 30 buah perpustakaan di Delhi di dalam tahun 1985. Senarai tersebut akan disusun selanjutnya menggunakan mikromemproses dan dikemaskini di dalam cakera (disk).

##### *Union Catalogue of Social Science Serials:*

Penyusunan Union catalogue tersebut merupakan projek utama yang dijalankan pada 1 April, 1970 dan telah siap secara formal pada 31 Mac, 1976. 32 jilid yang memberi lokasi sejumlah 31,125 terbitan berkala di 550 perpustakaan di 17 buah negeri dan dua buah Wilayah Bersatu (Union Territories) yang mempunyai jilid yang berasingan, tentang Perpustakaan Negara, Calcutta telah diterbitkan. Katalog induk membantu untuk mengesan jilid terbitan berkala tentang sains sosial yang diketahui berada di salah satu perpustakaan yang menjadi anggota. Ia juga membantu perpustakaan tersebut dari segi gunasama sumber-sumber terbitan berkala antara satu sama lain bagi kepentingan pengguna mereka. Katalog induk secara lahirnya memerlukan semakan dari masa ke semasa bagi memberi maklumat yang terkini tentang status terbitan berkala tersebut di sesuatu perpustakaan. Kadang-kadang, sebahagian daripadanya dipilih buang oleh setengah-setengah perpustakaan. Perpustakaan pada amnya akan mempunyai koleksi yang besar pada tahun tahun akan datang dibandingkan dengan sekarang. Koleksi unik tentang sebahagian judul mungkin juga diperolehi di perpustakaan yang kurang dikenali. Semakan katalog induk bukan saja diperlukan tetapi penting jika masa ahli sains sosial hendak dijamin/kurangkan. Dengan itu, keputusan telah diambil bagi senantiasa menjalankan kerja tersebut dan menjadikannya sebagai aktiviti dan program utama seterusnya bagi NASSDOC.

##### *Union Catalogue of Newspapers in Delhi Libraries:*

Untuk mengemas kini data tentang ketersediaan fail-

fail kebelakangan akhbar di perpustakaan-perpustakaan di Delhi, fasikul berasingan, judul seperti di atas telah dikeluarkan dalam bentuk memo pada tahun 1978 (sebelum ini ia adalah sebahagian daripada Union Catalogue of Social Science Periodicals - Delhi Libraries), dan semakan dilakukan pada tahun 1983. Katalog yang terkini merangkumi 252 judul akhbar yang terdapat di 36 buah perpustakaan dan pejabat akhbar.

##### *Directory of Social Science Research Institutions dan Directory of Professional Organizations in India:*

NASSDOC telah mengemas kini dua panduan tersebut, yang telah diterbitkan dalam tahun 1971 dan maklumatnya boleh didapati di dalam kad untuk rujukan.

##### *Mahatma Gandhi Bibliography:*

Jilid pertama bagi siri ini, *Mohandas Karamchand Ghandhi: A Bibliography* yang dikhaskan bagi monograf-monograf berbahasa Inggeris dikeluarkan pada 27 Oktober, 1974. Ini diikuti dengan jilid yang merangkumi monograf-monograf berbahasa Hindi, Sanskrit dan Urdu. Manuskrip fasikul Bengali telah dihantar untuk percetakan. Jilid selanjutnya berada di beberapa peringkat untuk disiapkan.

##### *Retrospective Cumulative Index of Indian Social Science Periodicals:*

Dengan projek katalog induk (Union Catalogue Project) yang ada sekarang, NASSDOC bercadang untuk menyediakan indeks prakini terkumpul bagi terbitan berkala sains sosial India, bermula daripada jilid yang pertama. Projek indeks pra kini dimulakan dari April 1, 1976. NASSDOC telah mengenal pasti 240 terbitan berkala untuk projek tersebut, dan tahun 1970 dicadangkan sebagai tahun permulaannya. (cut-off year). Sehingga ini, kerja-kerja indeks bagi jurnal-jurnal Pendidikan, Psikologi, Antropologi dan Sosiologi telah selesai. Apabila projek tersebut selesai, ia akan memberi pengawalan bibliografi karya terbitan berkala yang telah diterbitkan sejak ratusan tahun yang lalu, yang berguna kepada ahli sains sosial. Pada peringkat permulaan indeks tersebut dibuat menggunakan kad supaya dapat digunakan oleh sarjana-sarjana walaupun kerja-kerja (ke atas projek) masih lagi berjalan. Kemudian ia akan diterbitkan bersiri atau menggunakan komputer. Pengalaman awal pengeluaran jilid pertama *Indian Education Index* di bawah siri ini amat dihargai, berdasarkan kepada permintaan kepada kerja-kerja tersebut. Ini merupakan perancangan perkhidmatan jangka panjang yang terus menerus di mana beberapa jilid bersiri akan dikeluarkan. Jilid seterusnya di dalam siri ini ialah *Index to Indian Periodicals: Sociology and Psychology (1915-1970)* sedang dicetak dan akan disiap siar tidak lama lagi.

Setelah siap nanti, indeks prakini terkumpul itu akan mempunyai kebaikan seperti berikut:

- 1) Indeks tersebut akan menyediakan pengawalan bibliografi untuk maklumat tentang terbitan berkala yang telah diterbitkan di India sepanjang lebih kurang 130 tahun
- 2) Jilid-jilid katalog induk itu akan menentukan lokasi naskhah-naskhah jilid terbitan berkala yang diperlukan bagi mempercepatkan dan memudahkan pencarian di India.
- 3) Pusat Sumber Antara-Perpustakaan akan memberi pendekatan yang terbaik bagi mendapatkan jilid-jilid tersebut atau ia akan menyediakan naskhah-naskhah artikel yang diperlukan dengan bayaran yang berpatutan.

#### *Area Studies Bibliographies:*

Bermula dalam tahun 1979, projek *Area Studies Bibliographies* bertujuan untuk mengumpul semua bahan sains sosial yang mempunyai nilai penyelidikan berkaitan dengan setiap negeri dan Wilayah Bersatu di India. Di bawah projek ini, dijangkakan beberapa siri bibliografi yang merangkumi bahan-bahan sains sosial yang terdapat di dalam pelbagai bentuk dan bahasa yang eksklusif kepada kawasan tersebut.

Di bawah pengawasan pengarah pojek di setiap negeri/wilayah, kerja-kerja penyusunan telah pun siap di Andaman & Nicobar Islands, Goa, Damman & Diu, Madhya Pradesh, Punjab, Harjaya & Himachal Pradesh, Rajasthan, Tamil Nadu, U.P. (Eastern Region). Di negeri-negeri dan wilayah-wilayah bersatu lain daripada tersebut di atas masih lagi di dalam proses persiapan. Lebih kurang 10,000 judul di dalam Bahasa Inggeris dan bahasa-bahasa wilayah India telah dikumpulkan di bawah *Area Study Project*.

#### *Bibliografi-bibliografi Bahasa:*

Projek tersebut lebih luas ruang lingkupnya dan merangkumi bahan-bahan penyelidikan di dalam semua bidang sains sosial di dalam bahasa-bahasa wilayah India. Kerja-kerja penyusunan bibliografi-bibliografi di Gujarati, Hindi, Kannada dan Oriya sedang berjalan. Data bibliografi lebih kurang 6,000 rujukan dalam Bahasa Hindi, 2,000 dalam Bahasa Gujarati dan 300 setiap satu dalam bahasa-bahasa Oriya dan Kannada boleh didapati.

Projek-projek yang dibantu oleh ICSSR: Kategori keuda program-program yang diberi bantuan oleh ICSSR adalah berkaitan dengan penyusunan indeks dan bibliografi.

#### *Bantuan Penerbitan:*

Penerbitan kerja-kerja rujukan yang bermutu telah digalakkan dengan pembelian naskhah-naskhah tersebut secara pukal. (1) *Civil Disobedience and Indian Tradition*, (2) *A Guide to Reference Material on India*, (3) *Hindi*

*Sandharbh*, (4) *Index India*, (5) *Index to Calcutta Review*, (6) *Indian Behavioural Science Abstracts*, (7) *Indian Education Index (1948-1978)*, (8) *Indian Political Movement (1919-1971)*. (9) *Kesari Centenary Index*, (10) *Thesis on the Indian Subcontinent (1877-1971)* adalah contoh-contoh di dalam kategori ini.

#### *Bantuan Kewangan Kepada Perpustakaan/Pusat Dokumentasi:*

Bantuan (Grant-in-aid) telah diberikan kepada Indian Council of World Affairs di New Delhi, bagi penyelenggaraan perpustakaan termasuk langganan jurnal-jurnal sejak tahun 1980-1981 dan kepada Indian Renaissance Institute, di Dehra Dun bagi penyelenggaraan arkib M.N. Roy.

#### DAYAUSAHA BARU

##### (i) Automasi Perkhidmatan:

Sebagai permulaan sebuah mikropemproses telah diperolehi. Kesudahan objektif ialah untuk mempunyai sebuah pangkalan data berkomputer bahan-bahan penyelidikan (buku, terbitan berkala, laporan penyelidikan, tesis, kertas kerja) di dalam bidang sains sosial yang terdapat di perpustakaan-perpustakaan Delhi.

##### (ii) Pangkalan Data Projek Penyelidikan

Membina sebuah pangkalan data projek penyelidikan di dalam bidang sains sosial, yang telah siap atau masih dijalankan, untuk mengelakkan daripada penggandaan dan juga penggunaan sumber-sumber dengan bijaksana.

##### (iii) Perjalanan program-program

Menjayakan bersungguh-sungguh program-program yang diluluskan oleh ICSSR yang masih lagi digantung dan yang perlu diberi nafas baru, iaitu program indeks prakini, program katalog induk, Pusat Sumber Antara-Perpustakaan, Pinjaman Dokumen-Dokumen Kerajaan India, dan sebagainya.

##### (iv) Perkhidmatan Penyebaran Maklumat Terpilih:

Memulakan penyusunan projek pilihan sarjana untuk memberi perkhidmatan Penyebaran Maklumat Terpilih.

##### (v) Gunasama Sumber:

Memulakan perjumpaan pakar-pakar subjek/perkara dan profesional (di dalam bidang ekonomi, sains politik sebagai permulaan) untuk mencari cara penggunaan maksimum sumber-sumber yang ada dan

(Sambungan di m.s. 31)

Ruangan ini menyenaraikan makalah-makalah yang membuat ulasan mengenai sesuatu perkara tertentu. Dari aspek penyelidikan, ulasan makalah adalah penting kerana ia memberi gambaran keadaan semasa perkara yang diperbincangkan di samping menekankan kepentingan penyelidikan-penyelidikan sebelumnya.

Senarai ini hanya memberi butiran bibliografi makalah-makalah berkenaan. Rujukan yang disertai nombor panggilan terdapat di Perpustakaan Universiti Pertanian Malaysia. Untuk mendapatkan makalah yang diminati sila berhubung dengan perpustakaan sendiri atau berhubung terus dengan Ketua Pengarang.

Pembaca adalah dipelawa untuk mencadangkan lain-lain topik yang difikirkan sesuai untuk dimuatkan dalam ruangan ini.

1. *Biotechnology in food-production and processing*. Knorr, D; Sinskey, A.J. *Science* 229(4719): 1224 - 1229. 1985. 171 ruj.

**btb Q1 S35**

2. *Genetics of plant-microbe nitrogen-fixing symbiosis*. Macholz, R.M.; Stewart, W. D. P. *Proceedings of the Royal Society of Edinburgh Section B - Biological Sciences*. 85(P 3-4): 239 - 252. 1985. 54 ruj.

3. *Immobilization and permeabilization of cultured plant-cells*. Knorr, D; Miazga, S.M.; Tentonic, R. A. *Food Technology* 39(10): 135 - 142. 1985. 71 ruj.

**btb TP 370F63 (KK 477)**

4. *Immunology of fungal infections in animals*. Lehmann, P.F. *Veterinary Immunology and Immunopathology* 10(1): 33 - 69. 1985. 184 ruj.

**btb SF 757.2 V4 (KK1577)**

5. *Mechanisms of biological ion transport - carriers, channels, and pumps in artificial lipid membranes*. Lauger, P. *Angewandte Chemie - International Edition in English* 24(11): 905 - 923. 1985. 281 ruj.

**btb QD1A513 (KK1680)**

6. *Monitoring plant-metabolism by C-13, N-15, and N-14 nuclear magnetic resonance spectroscopy - a review of the applications to algae, fungi and higher plants*. Martin, F. *Physiologie Vegetale* 23(4): 463 - 490. 1985. 91 ruj.

7. *Monoclonal antibodies in plant-disease research*. Halk, E.L.; Deboer, S.H. *Annual Review of Phytopathology* 23: 321 - 350. 1985. 151 ruj.

**btb SB599 A68**

8. *NMR and compartmentation in biological tissues*. Belton, P.S.; Ratcliff, R.G. *Progress in Nuclear Magnetic Resonance Spectroscopy*. 17(P3): 241 - 279. 1985. 266 ruj.

9. Outdoor cultivation of sea vegetables. Lipkin, Y. **Plant and Soil**. 89(1-3): 159 - 183. 1985. 100 ruj.
10. Physiological and metabolic systems important to animal growth - an overview. Beitz, D.C. **Journal of Animal Science** 61(52) 1 - 20. 1985. 102 ruj.  
**btb SF1J58 (KK658)**
11. Predicting the response of plants to increasing carbon-dioxide - a critique of plant-growth models. Reynolds, J.F.; Acock, B. **Ecological Modelling** 29(1 - 4): 107 - 129. 1985. 102 ruj.  
**btb QH 541.15 M3E27**
12. Quantitative structure activity relationships of insecticides and plant-growth regulators - comparative studies toward understanding the molecular mechanisms of action. Iwamura, H.; Nishimur, K.; Fujila, T. **Environmental Health Perspectives**. 61(Sep) 307-320. 1985. 58 ruj.
13. Seed plant phylogeny and the origin of angiosperms: an experimental cladistic approach. Dpyle, J.A.; Donoghue, M.J. **The Botanical Review** 52(4): 321 - 431. 229 ruj.  
**btb Qk N335 (KK175)**
14. Transposon mutagenesis and its potential for studying virulence genes in plant-pathogens. Milles, D. **Annual Review of Phytopathology** 23: 297 - 320. 1985. 101 ruj.  
**btb SB599 A68**
15. The use of quantitative structure activity relationships to predict the acute and chronic toxicities of organic chemicals to fish. Mccarty, L.S.; Hadson, P.V.; Craig, G. R.; Kaiser, K.L.E. **Environmental Toxicology and Chemistry** 4(5): 595-606. 1985. 28 ruj.
16. Using multisensory images to derive the structure aof 3- dimensional objects - a review. Magee, M.J.; Aggarwal, J.K. **Computer Vision Graphics and Image Processing**. 32(2): 145 - 157. 1985. 20 ruj.

## BIBLIOGRAFI PERTANIAN MALAYSIA

Bibliografi ini mengandungi bahan-bahan terbitan mengenai pertanian Malaysia yang telah diindeks dari Disember 1985-Februari 1986 oleh Pusat Kebangsaan AGRIS dengan kerjasama Perpustakaan Institut Penyelidikan Minyak Kelapa Sawit Malaysia, Perpustakaan Negara Malaysia dan Perpustakaan Institut Penyelidikan Getah Malaysia untuk keperluan AGRIS dan AGRIASIA.

Format AGRIS telah digunakan untuk mengindeks dan penyusunan bibliografi ini dibuat mengikut Pengkelasan AGRIS seperti di bawah ini.

- | Kod        | Perkara  |
|------------|--|
| <b>A</b>   | <b>PERTANIAN AM (AGRICULTURE IN GENERAL)</b>   |
| A01        | Pertanian-Aspek Am (Agriculture-General aspects)   |
| A50        | Penyelidikan Pertanian (Research)  |
| <b>B</b>   | <b>GEOGRAFI DAN SEJARAH (GEOGRAPHY AND HISTORY)</b>  |
| B10        | Geografi (Geography)   |
| B50        | Sejarah (History)  |
| <b>C</b>   | <b>PENDIDIKAN, PENGEMBANGAN DAN MAKLUMAT NASIHAT (EDUCATION, EXTENSION AND INFORMATION)</b>  |
| C10        | Pendidikan (Education)   |
| C20        | Pengembangan (Extension)   |
| C30        | Dokumentasi dan Maklumat (Documentation and Information)   |
| <b>D</b>   | <b>PENTADBIRAN DAN PERUNDANGAN (ADMINISTRATION AND LEGISLATION)</b>  |
| D10        | Pentadbiran Awam (Public Administration)   |
| D50        | Perundangan (Legislation)  |
| <b>E00</b> | <b>EKONOMI, PEMBANGUNAN DAN SOSIOLOGI DESA (ECONOMICS, DEVELOPMENT AND RURAL SOCIOLOGY)</b>  |
| E10        | Ekonomi dan polisi pertanian (Agricultural economics and policies)   |
| E11        | Ekonomi dan polisi tanah (Land economics and policies)   |
| E12        | Buruh dan pekerjaan (Labour and employment)  |
| E13        | Pelaburan, kewangan dan kredit (Investment, finance and credit)  |
| E14        | Ekonomi dan polisi pembangunan (Development economics and policies)  |
| E16        | Ekonomi pengeluaran (production economics)   |
| E20        | Penyusunan, Pentadbiran dan Pengurusan Perusahaan Pertanian Atau ladang (Organization, administration and management of agricultural enterprises or farms) |
| E21        | Industri pertanian (Agro-industry)   |
| E40        | Koperasi (Cooperatives)  |
| E50        | Sosiologi desa (Rural Sociology)   |
| E51        | Penduduk desa (Rural population)   |
| E70        | Niaga, pemasaran dan edaran (Trade, marketing and distribution)  |
| E71        | Niaga antarabangsa (International trade)   |
| E72        | Niaga dalam negeri (Domestic trade)  |
| E73        | Ekonomi pengguna (Consumer economics)  |
| E80        | Ekonomi rumahtangga, industri dan kraf (Home economics, industries and crafts)   |
| <b>F</b>   | <b>SAINS TUMBUHAN DAN PENGELUARAN (PLANT SCIENCE AND PRODUCTION)</b>   |
| F01        | Perusahaan tanaman (Crop husbandry)  |
| F02        | Pembiakan tumbuhan (Plant propagation)   |
| F03        | Pengeluaran bijibenh (Seed production)   |
| F04        | Membaja (Fertilizing)  |
| F06        | Pengairan (Irrigation)   |
| F07        | Penyuburan tanah (Soil cultivation)  |
| F08        | Corak dan sistem penanaman (Cropping patterns and systems)   |
| F30        | Genetic dan pembiakbaikan tumbuhan (Plant genetics and breeding)   |
| F40        | Ekologi Tumbuhan (Plant ecology)   |
| F50        | Struktur tumbuhan (Plant structure)  |
| F60        | Fisiologi dan biokimia tumbuhan (Plant physiology and biochemistry)  |
| F61        | Fisiologi tumbuhan - Pemakanan (Plant physiology - Nutrition)  |
| F62        | Fisiologi tumbuhan - Pertumbuhan dan perkembangan (Plant physiology - Growth and Development)  |
| F63        | Fisiologi tumbuhan - Pengeluaran (Plant physiology - Reproduction)   |
| F70        | Taksonomi dan geografi tumbuhan (Plant taxonomy and geography)   |

<b>H</b>	<b>PERLINDUNGAN TUMBUHAN (PLANT PROTECTION)</b>	<b>L02</b> - Makanan ternakan (Animal feeding)
<b>H01</b> -	Perlindungan tumbuhan - Aspek am (Protection of plants - General aspects)	<b>L10</b> - Genetik dan pembiakbaikan ternakan (Animal genetics and breeding)
<b>H10</b> -	Perosak tumbuhan (Pests of plants)	<b>L20</b> - Ekologi haiwan (Animal ecology)
<b>H20</b> -	Penyakit tumbuhan (Plant Diseases)	<b>L40</b> - Struktur haiwan (Animal structure)
<b>H50</b> -	Pelbagai penyakit tumbuhan (Miscellaneous plant disorders)	<b>L50</b> - Fisiologi dan biokimia haiwan (Animal physiology and biochemistry)
<b>H60</b> -	Rumpai dan pengawalan rumpai (Weeds and weed control)	<b>L51</b> - Fisiologi haiwan - Pemakanan (animal physiology - Nutrition)
<b>J</b>	<b>TEKNOLOGI LEPAS PUNGUT/KUTIP HASIL/ TUAI POSTHARVEST TECHNOLOGY)</b>	<b>L52</b> - Fisiologi haiwan - Pertumbuhan dan perkembangan (Animal physiology - Growth and development)
<b>J10</b> -	Pengawasan, pengangkutan, storan dan perlindungan, hasil pertanian (Handling, transport, storage and protection of agricultural products)	<b>L53</b> - Fisiologi haiwan - Pengeluaran (Animal physiology - Reproduction)
<b>J11</b> -	Pengawasan, pengangkutan, storan dan perlindungan hasil tumbuhan (Handling, transport, storage and protection of plant products)	<b>L60</b> - Taksonomi dan geografi haiwan (Animal taxonomy and geography))
<b>J12</b> -	Pengawasan, pengangkutan, storan dan perlindungan hasil hutan (Handling, transport, storage and protection of forest products)	<b>L70</b> - Sains Veterinar dan Kesihatan (Veterinary Science and Hygiene)
<b>J13</b> -	Pengawasan, pengangkutan, storan dan perlindungan hasil ternakan (Handling, transport, storage and protection of animal products)	<b>L72</b> - Perosak haiwan (Pests of animals)
<b>J14</b> -	Pengawasan, pengangkutan, storan dan perlindungan perikanan dan hasil akuakultur (Handling, transport, storage and protection of fisheries and aquacultural products)	<b>L73</b> - Penyakit-penyakit haiwan (Animal diseases)
<b>J15</b> -	Pengawasan, pengangkutan, atoran dan perlindungan hasil pertanian yang bukan berbentuk makanan atau bahan makanan (Handling, transport, storage and protection of non-food or non-feed agricultural products)	<b>L74</b> - Pelbagai penyakit haiwan (Miscellaneous animal disorders)
<b>K</b>	<b>PERHUTANAN (FORESTRY)</b>	<b>M</b>
<b>K01</b> -	Perhutanan -Aspek am (Forestry - General aspects)	<b>PERIKANAN DAN AKUAKULTUR (FISHERIES AND AQUACULTURE)</b>
<b>K10</b> -	Pengeluaran perhutanan (Forestry Production)	<b>M01</b> - Perikanan dan akuakultur - Aspek am (Fisheries and aquaculture - General aspects)
<b>K11</b> -	Kejuruteraan hutan (Forest engineering)	<b>M11</b> - Pengeluaran perikanan (Fisheries production)
<b>K50</b> -	Pemprosesan hasil hutan (Processing of forest products)	<b>M12</b> - Pengeluaran dan pengurusan akuakultur (Aquaculture production and management)
<b>K70</b> -	Kerosakan dan perlindungan hutan (Forest injuries and protection)	<b>M40</b> - Ekologi Akuatik (Aquatic Biology)
<b>L</b>	<b>SAINS PETERNAKAN, PENGELUARAN DAN PERLINDUNGAN)</b>	<b>N</b>
<b>L01</b> -	Peternakan (Animal husbandry)	<b>JENTERA DAN KEJURUTERAAN PERTANIAN (AGRICULTURAL MACHINERY AND ENGINEERING)</b>
		<b>N01</b> - Kejuruteraan pertanian (Agricultural engineering)
		<b>N02</b> - Pertapakan ladang (Farm Layout)
		<b>N10</b> - Struktur Pertanian (Agricultural structures)
		<b>N20</b> - Jentera dan peralatan pertanian (Agricultural machinery and equipment)
		<b>P</b>
		<b>SUMBER ALAM DAN SEKITARAN (NATURAL RESOURCES AND ENVIRONMENT)</b>
		<b>P01</b> - Pemuliharaan alam dan sumber tanah (Nature conservation and land resources)





## **A: PERTANIAN AM**

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## **J TEKNOLOGI LEPAS PUNGUT/KUTIP HASIL/TUAI**

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**J14: Pengawasan, pangangkutan,  
storan dan perlindungan  
perikanan dan hasil akuakultur**

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**K: PERHUTANAN**

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### (Sambungan dari m.s. 4)

seterusnya mengurangkan pergandaan/duplikasi perkhidmatan dan bahan seperti perkhidmatan dokumentasi dan pembelian buku dan jurnal yang mahal-mahal.

#### (vi) Membuat Mikrofilem Bahan Penyelidikan:

Membuat mikrofilem tesis, laporan projek dan jurnal ditekankan supaya kekurangan wang dan masalah-masalah pengawetan dapat diatasi.

#### vii) Kemudahan Penyelidikan untuk Sarjana:

Memberi perkhidmatan penyerahan dokumen pantas melalui penambahan mesin salinanfoto dan alat pembaca-pencetak mikrofilem.

#### viii) Program Latihan:

Menjalankan kursus-kursus perpustakaan yang membawa kepada "Associateship in Library and

Information Studies in Social Sciences" dan kursus-kursus pendek di dalam pelbagai topik pilihan semasa.

### PROGRAM-PROGRAM MASA DEPAN:

1. Penubuhan Unit mikrofilem
2. Grid maklumat kebangsaan telah berada dengan lembaga perancangan sekian lama. Sistem tersebut dijangka akan menghubungkan semua pusat kecemerlangan (dalam sains sosial) di negara ini (India) dan akan memberi perkhidmatan cemerlang kepada pencari maklumat. Ia adalah suatu kerjasama yang diselenggarakan dan terpenting, melibatkan ahli-ahlinya.

\* Artikel ini telah dihantarkan oleh Encik S.P. Agrawal, Pengarah NASSDOC-ICSSR, New Delhi, India dan telah diterjemahkan daripada bahasa asalnya.

# Istilah Pertanian Pilihan

## Bahasa Inggeris

## Bahasa Malaysia

### A

Abdomen	-	abdomen
absorbate	-	terserap/absorbat
absorbent	-	penyerap/absorben
achlamydeous (flower)	-	aklamideus (bunga)
acrogen	-	akrogen
acrogenous	-	akrogenus
adaxial	-	adaksial
adenophore	-	adenofor
adventitious bud	-	mata tunas adventitius
aerotropic	-	aerotropik
aestivation	-	aestivasi
agent of pollination	-	agen pendebungaan/ penyerbukan
aggregate fruit	-	buah agregat
agricultural index	-	indeks pertanian
agricultural product	-	hasil pertanian
agronomic investigation	-	penyiasatan agronomi
air-supply	-	bekalan udara
alkaline soil	-	tanah beralkali
allamanda (Allamanda cathartica)	-	allamanda; akar cempa- ka hutan; akar cempaka kuning; bunga akar kuning (Allamanda cathartica)
alluvial soil	-	tanah aluvium/aluvial
alternate (leaf)	-	berselang (daun)
ammoniated super- phosphate	-	superfosfat diammoniakkan
anabolism	-	asabolisme
anaerobe	-	anaerob
angiospore	-	angiospor
angled loofah (Luffa acutangula)	-	petola/ketola segi (Luffa acutangula)
angsana (Pterocarpus indicus)	-	pokok sena (Pterocarpus indicus)
animal residues	-	Saki/sisa haiwan
annual plant	-	pokok semusim
anticoagulant	-	antibeku/antikaogulan
aphid	-	kutu daun/afid
aphyllous	-	tak berdaun/afilus
appraisal	-	penilaian
aquatic	-	akuatik
areal map	-	peta kawasan
arid land	-	tanah gersang

armyworm	-	ulat ratus/ulat cawai (Spodoptera mauritia)
artificial fertilizer	-	baja buatan
asparagus fern	-	pakis asparagus
association (ecology)	-	persekutuan/asosiasi (ekologi)
average yield	-	hasil purata
axil (leaf)	-	aksil (daun)
axillary bud	-	mata tunas aksil

### B

back bulbs	-	ibu bawang
balanced food	-	makanan seimbang
bark renewal	-	pemulihan kulit
basal dressing	-	baja asas
base fertilizer	-	baja asas
basin irrigation	-	pengairan lembangan
benzoin oil-fruit (Elaeocarpus stipularis)	-	buah medang api (Elaeocarpus stipularis)
biological exchange	-	pertukaran biologi
bipinnate (leaf)	-	dwilelipan/bipinata
blood meal	-	serbuk darah (baja)
bloom (fruit; leaf; stem) batang)	-	bedak (bunga; daun;
breeding system	-	sistem pembakaan
broadleaf buttonweed (Borreria latifolia)	-	rumpai butang daun lebar (Borreria latifolia)
brown spot disease	-	penyakit bintik perang
budwood	-	kayu mata tunas
budwood nursery	-	semain mata tunas
bulbs	-	bebawang

### C

calcareous soil	-	tanah berkapur
Calyx (flower)	-	kaliks (bunga)
carnivorous animal	-	haiwan karnivor
cerambycid beetle	-	kumbang serambisid
certified seed stock	-	simpanan bijibenih teraku
chemical nature of soil	-	keadaan kimia tanah
chicle	-	getah ciku
Chinese radish (Raphanus sativus var. hortensis)	-	lobak (Raphanus sativus var. hortensis)
clay-colloid	-	koloid tanah liat/geluh
clay-fraction	-	pecahan tanahliat/ geluh
clear-wing bug	-	kepinding kepek jernih
cluster beans (Cyamopsis psoralioides)	-	kacang jambak (Cyamopsis psoralioides)
commercial agriculture	-	pertanian dagangan



common spiderwort ( <i>commelina nudiflora</i> )	-	rumput aur ( <i>Commelina nudiflora</i> )	<b>H</b>		
conservatory (plant)	-	rumah pemuliharaan/ konservatori (tumbuhan)	hardwood cutting	-	keratan kayu perang/ tua
contact herbicide	-	racun herba sentuh	hen yard	-	kawasan ayam
contact insecticide	-	racun serangga sentuh	hoary bamboo-rat ( <i>Rhizomys pruinosus</i> )	-	dekan kecil ( <i>Rhizomys pruinosus</i> )
cover crop	-	tanaman tutup bumi	holing and manuring	-	melubang dan membaja
cream concentrate	-	dadih pekat	house mouse ( <i>Mus musculus</i> )	-	tikus rumah kecil/ tikus terkecil ( <i>Mus musculus</i> )
crop cutting test (padi)	-	tuai ujian (padi)			
<b>D</b>					
digestible protein	-	protin hadam/cerna	<b>I</b>		
disperse (seed)	-	sebar (bijibenih)	intensive farming	-	pertanian intensif
drastic pruning	-	tutuh	ixora	-	siantan/jejarum
draught animal	-	binatang penarik			
dwarf cattle	-	lembu padi			
<b>E</b>					
easily drained soil	-	tanah mudah disalir	jack fruit ( <i>Artocarpus integra</i> )	-	nangka ( <i>Artocarpus integra</i> )
			John Innes base	-	baja asas John Innes
<b>F</b>					
family-type farm	-	ladang jenis keluarga	<b>L</b>		
farming land	-	tanah ladang	landscape	-	rupa darat/lanskap
fertilizer response	-	gerakbalas baja	lateritic soil	-	tanah laterit
field-pea/farden pea ( <i>Pisum sativum</i> )	-	kacang putih ( <i>pisum sativum</i> )	leaf blight	-	hawar daun
floating padi	-	padi apung	lemon grass ( <i>Cymbopogon citratus</i> )	-	serai ( <i>Cymbopogon</i> )
flood plain	-	tanah dataran	citratus)		
fodder crop	-	tanaman foder	liquid manure	-	baja cecair
foliage pot plant	-	pokok dedaun pasu	lowland	-	tanah pamah
food crops	-	tanaman makanan			
foxtail grass ( <i>Setaria italica</i> )	-	sekoi ( <i>Setaria italica</i> )	<b>M</b>		
<b>G</b>					
germination counts	-	hitungan cambah/ kiraan cambah	marmoset rat <i>Hapalomys longicaudatus</i> )	-	tikus monyet/tikus buluh besar ( <i>Hapalomys longicaudatus</i> )
golden-currant ( <i>Ribes aureum</i> )	-	buah kismis kuning ( <i>Ribes aureum</i> )	miniature garden	-	taman mini
green amaranthus ( <i>Amaranthus viridis</i> )	-	bayam putih ( <i>Amaranthus viridis</i> )	mosquito bug ( <i>Helopeltis spp.</i> )	-	kepinding ( <i>Helopeltis spp.</i> )
green pea/gram/mungbean ( <i>Phaseolus aureus</i> )	-	kacang hijau ( <i>Phaseolus aureus</i> )	<b>N</b>		
group replanting	-	tanaman semula berkelompok	natural brooding	-	pengeraman semulajadi
			neem plant/margosa ( <i>Melia indica</i> )	-	margosa/sadu ( <i>Melia indica</i> )
			night-blooming plants	-	pokok kembang malam

<b>O</b>			sweet pepper ( <i>Capsicum annuum</i> c.v. grossum)	-	lada kembang ( <i>Capsicum annuum</i> c.v. grossum)
organic fertilizer	-	baja organik			
oyster grit	-	serbuk kulit tiram			
<b>P</b>			<b>T</b>		
peacock's crest ( <i>Caeslpinia pulcherrima</i> )	-	jambul merak ( <i>Caeslpinia</i> pulcherrima)	tamarind ( <i>Tamarindus indica</i> )	-	asam jawa ( <i>Tamarindus indica</i> )
peduncle	-	tangkai/pedunkel	thallophytes	-	talofit
physical properties of soil	-	sifat-sifat fizik tanah	turnit ( <i>Brassica compestris</i> var rapa)	-	turnip ( <i>Brassica compestris</i> var. rapa)
plant classification	-	pengelasan tumbuhan			
planting distance	-	jarak penanaman			
plate brush/white sparrow's brinjal ( <i>Solanum torvum</i> )	-	terung pipit putih ( <i>Solanum torvum</i> )	<b>W</b>		
potential padi area	-	bakal kawasan padi	water convolvulus/ kangkung ( <i>Ipomoea</i> reptans)	-	kangkung ( <i>Ipomoea reptans</i> )
poultry feed trough	-	palung makan ayam itik	water-hen (white breasted) - ( <i>Amauornis phoenicurus</i> chinensis)	-	ruak-ruak ( <i>Amauornis phoeni- curus chinensis</i> )
pre-emergence weedicide	-	racun rumpai pracambah	weeding	-	merumput
prop root	-	akar sokong	wild cherry ( <i>Prunus martabanica</i> )	-	ceri hutan ( <i>Prunus martabanica</i> )
<b>R</b>			wind pollination	-	pendebungaan angin
red clay pot	-	pasu geluh merah/pasu tanah liat merah	wingless ( <i>I.j. apterous</i> )	-	tak berkepak/apterus
red spiny rat ( <i>Rattus surifer</i> )	-	tikus duri merah ( <i>Rattus surifer</i> )			
rice bean ( <i>Phaseolus calcaratus</i> )	-	kacang sepalit/puyuh ( <i>Phaseolus calcaratus</i> )			
root shoot	-	tunas akar			
<b>S</b>					
sandy soil	-	tanah berpasir			
seed kiln	-	tanur bijibenih			
seed treatment	-	rawatan bijibenih			
seedling stump	-	anak benih pancung			
selective herbicide	-	racun herba tertentu			
shading	-	naungan			
shifting agriculture	-	pertanian pindah			
softened rubber	-	getah lunak			
soil sample	-	contoh tanah			
soil structure	-	struktur tanah			
soil texture	-	tekstur tanah			
soursop ( <i>Annona muricata</i> )	-	durian belanda ( <i>Annona muricata</i> )			
subsistence agriculture	-	pertanian subsisten			
sugar palm ( <i>Arenga saccharifera</i> )	-	kabung ( <i>Arenga saccharifera</i> )			
surface feeder (root)	-	akar permukaan			

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## Kalendar Kongress Pertanian

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Kalendar ini menyenaraikan seminar, konferens, simposium dan bengkel peringkat kebangsaan dan antarabangsa mengenai pertanian dan perkara-perkara berkaitan dengannya yang akan diadakan dari bulan April 1987 hingga bulan September 1987. Untuk melengkapkan lagi senarai ini, anda adalah dipelawa untuk melaporkan apa juga maklumat mengenai lain-lain seminar, konferens dan bengkel pertanian yang tidak termasuk di dalam senarai ini.

### April 13

Judul : Seminar - Advances in Food Science and Technology Research  
Tempat : Fakulti Sains Makanan dan Bioteknologi, UPM  
Anjuran : Fakulti Sains Makanan dan Bioteknologi

### April 13-17

Judul : Asian Seminar on Trees and Mycorrhiza  
Tempat : Kuala Lumpur  
Anjuran : IFS, MSA, FRM

### April 27-Mei 2

Judul : Seminar - Fish parasitology  
Tempat : Fakulti Perikanan & Sains Samudera, UPM  
Anjuran : IDRC & UPM

### Jun 6-13

Judul : Mutu Air untuk Akuakultur  
Tempat : Fakulti Perikanan & Sains Samudera, UPM  
Anjuran : Fakulti Perikanan & Sains Samudera

### Jun 8-11

Judul : Reproductive Ecology of Tropical Forest Plants  
Tempat : Bangi  
Anjuran : UNESCO

### Jun 15-20

Judul : Kursus Perlembahan ke 9  
Tempat : Jabatan Perlindungan Tumbuhan, UPM  
Anjuran : Jabatan Perlindungan Tumbuhan

### Jun 15-20

Judul : Penyakit Ikan  
Tempat : Fakulti Sains dan Sains Samudera, UPM  
Anjuran : Fakulti Sains dan Sains Samudera

### Jun 17-18

Judul : Polymer Application in Industry  
Tempat : Universiti Sains Malaysia, Pulau Pinang  
Anjuran : Pusat Pengajian Teknologi Industri, USM dan Institut Kimia Malaysia

### Jun 22-24

Judul : Bengkel 'Impact of Operations in Natural and Plantation Forests on Conservation of Soil and Water Resources'  
Tempat : Pusat Pengembangan & Pendidikan Lanjutan, UPM  
Anjuran : Jabatan Sains Alam Sekitar, Fakulti Perhutanan, UPM; UNESCO; Jabatan Parit dan Taliair

### Julai 14-17

Judul : Iporex '87 (Malaysian International Plastics and Rubber Exhibition)  
Tempat : Kuala Lumpur  
Anjuran : Fairs & Exhibitions, Ltd.

### September 7-10

Judul : Roving Lecture in Watershed Rehabilitation  
Tempat : Dewan Konferens, Pusat Pengembangan dan Pendidikan Lanjutan, UPM  
Anjuran : ASEAN - US Watershed Project; Fakulti Perhutanan & Jabatan Perhutanan Malaysia

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