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CURRICULA VITAE

1. **Name:** Dr. Azni Bin Idris
2. **Mailing address:** Department of Civil and Environmental Engineering, Faculty of Engineering, Universiti Pertanian Malaysia, 43400 Serdang, Selangor, Malaysia.
3. **Date and Place of Birth:** 12th September 1957, Kelantan, Malaysia.
4. **Sex:** Male.
5. **Nationality:** Malaysian.
6. **Marital Status:** Married.

7. **Educational Qualification:**

<u>Degree</u>	<u>Name of University</u>	<u>Main course of study</u>
PhD	University of Newcastle-upon-Tyne, U.K., 1989.	Environmental Engineering.
M.Sc.	University of Leeds, U.K., 1982.	Environmental Pollution Control.
BSc(Hons)	University of Birmingham, U.K., 1980.	Chemical Engineering.

8. **Appointment:**

- 1990 - as Design Engineer, Lankhorst Environmental Services Sdn Bhd, Subang Jaya, Selangor.
- 1989 - as Environmental Consultant, Lankhorst Pancabumi Contractors Sdn Bhd, Subang Jaya, Selangor.
- 1989 - as Environmental Consultant, Gabungan Jurubina Sdn Bhd, Taman Maluri, Kuala Lumpur.

Environmental Engineering Programme.

1985

Head, Research Trust Area on Agricultural and Industrial Waste Technology.

1985

Member, Faculty Research Committee.

1984 - 1985

Member of Biotechnology Programme Committee, UPM.

1984 - 1985

Member, Faculty Handbook Committee.

1983 - 1985

Secretary, Waste Network Secretariat.

1984

Member, Faculty Seminar Committee.

10. External Work:

1983 - 1985

Assistant Secretary, UNESCO Regional Network on Management and Utilization of Wastes.

1989 - 1990

Executive Coordinator, UNESCO Regional Network on Management and Utilization of Wastes.

1990

Member, Pacific Basin Consortium for Toxic and Hazardous Waste Management, based at Honolulu, Hawaii, USA.

1990

NATIONAL POINT OF CONTACT REPRESENTATIVE (NPCR) for Malaysia for UNESCO Regional Network on Management and Utilization of Wastes.

1990

Designated Member, Pacific Basin Consortium for Toxic and Hazardous Waste Management, based at Honolulu, Hawaii, USA.

11. Referee for Professional Journals:

1989

Kajian Berstatistik Proses Penghasilan Kitin Daripada Kulit Udang (Pertanika - reference no. 540/89).

1989

Analisis Faktor Proses Penghasilan Bromelin Daripada Batang Nenas (Pertanika - reference no. 541/89).

12. Supervision of Student Projects:

<u>PERINGKAT</u>	<u>TARIKH</u>	<u>NAMA PELAJAR</u>	<u>TAJUK</u>
Bac Kej Pertanian	1984	Mohd Yusof Abdullah	Biological Treatment of Textile Mill Effluent.
Bac Kej Pertanian	1984	Suhaimi Abu Bakar	Lead Pollution study using PSA method.
Bac Kej Pertanian	1985	Megat Hamdan M Ahmad	Anaerobic Fermentation System for Agricultural Residues.
MS Alam Sekitar 1992		Chew T.T. (sedang berlangsung)	Treatment of Wastes using UASB process.
Bac Kej Awam 1992		Abdul Razak Manap	Treatment of POME Using UASB.
Bac Kej Awam 1992		Abdul Razak Joffri	Treatment of POME using Fluidized Bed.

13. Other Experiences:

1983 - 1984	Examiner for practical teaching of B.S. Education (Sciences) at Tapah, Perak.
1984 -1985	Examiner for practical teaching of B.S. Education (Sciences) at Tapah, Perak.

14. Research Areas:

- a. Anaerobic Treatment of POME Using Hybrid Reactor (UPM IRPA 88/90 : \$ 120,000 - Ketua Projek).
- b. Modelling in the Water and Wastewater Treatment Processes (UPM Seed money 1990 : \$ 12,000 - Ketua

Projek).

c. Transport of Agricultural Chemicals in Irrigation Water (UPM Seed money 1990 : \$ 15,000).

d. High rate anaerobic digestion of Palm Oil Mill Effluent (National Biotechnology Programme 1990 : \$40,000 under SIRIM - Penyelaras Projek).

e. Projek 1: Kajian sistem Rawatan Air Sisa Industri dan Pertanian (1991-1995).

Projek 2: Kajian Penskalaan-naik dan Permodelan Sistem Aerobik dan Anaerobik (1991-1995).

(Rancangan Malaysia Ke 6 : \$450,000 - Ketua projek, bermula Jan 1991)

Agricultural

15. Research Publication:

a. Scale-up Studies on Anaerobic Fluidized Bed, PhD Thesis, University of Newcastle, U.K. (1989).

b. Anaerobic Treatment of Organic Refuse under Mesophilic Conditions, MSc Dissertation, University of Leeds, U.K. (1982).

16. Books:

S. A. Salam, Azni Hj Idris and Fakhrul Razi Ahmadun (Eds.), Management and Utilization of Industrial Wastes, Volume I, Proceeding of a National Seminar at UPM, 13-14 September 1984.

S. A. Salam and Azni Hj Idris (Eds.), Management and Utilization of Industrial Wastes, Volume II, Proceedings of a National Seminar at UPM, 13-14 September 1984.

Editor for UNESCO/FEISEAP publication, Technology for Development, Vol. 8, No. 2, 1990.

17. **Conferences/Seminars and Workshops:**

INTERNATIONAL/REGIONAL LEVEL:

1. Azni Idris, Energy and Environmental Policies in Malaysia, Joint NRCT-JSPS Seminar on Environmental Protection and Environmental Law and the Fourth Asian-American Conference on Environmental Protection "Energy Production and Utilization: Implication on the Environment and Laws", Bangkok, Dec 17-20, 1984.
2. Azni Idris, Energy Production from Anaerobic Fermentation of Organic Refuse, APCHE '84, 3rd Congress, Asian Pacific Confederation of Chemical Engineering, Bangkok, Oct 8-10, 1984.
3. Azni Idris, Megat Johari Megat Mohd Noor, Ahmad Jusoh, Abdul Halim Ghazali, Anhar Suki, Anaerobic Digestion of POME using Upflow Biofilter Reactor, Water and Wastewater '90 Conference, Barcelona, Spain, April 24-27, 1990.
4. Azni Idris, Scale-up of Anaerobic Waste Treatment Processes, Postgraduate Seminar, Department of Civil Engineering, University of Newcastle, United Kingdom, March 15, 1988 (unpublished).
5. Azni Idris, Tien Tze Electroplating Effluent Treatment and Control Proposals, Training Workshop on Small and Medium Scale Electroplating Industries, Honolulu, Hawaii, USA, November 15-17, 1990 (unpublished).
6. Azni Idris and Abang Abdullah Abang Ali, Management and Utilization of Wastes, 1991 Annual Seminar on The Role of ASAIHL Universities in Promoting Preservation of the Environment, Airlangga University, May 6-8, 1991, Surabaya, Indonesia.
7. Azni Idris and Fuad Abas, Environmental Impact Assessment and The Role of Legislation in Environmental Control - a case of Malaysia, ASAIHL Seminar on "The Role of ASAIHL in Combating Health Hazards of Environmental Pollution", The University of Hong Kong, 17-20 June 1992 (paper accepted for presentation).
8. Azni Idris, Treatment of Palm Oil Mill Effluent Using Biofilter, Second International Symposium on Waste Management Problems in Agro-industries, Istanbul, Turkey, 23-25 September, 1992. (paper accepted for presentation)

NATIONAL LEVEL:

1. Azni Idris and Fakhrul Razi Ahmadun, Engineering of Anaerobic Waste Treatment Process, Regional Seminar-Workshop on Biotechnology in Industrial Development, UPM, Serdang, March 27-30, 1984.
2. Azni Idris, Treatment of Textile Mill Effluent Using Rice Husk Filter Media, National Seminar on Management and Utilization of Industrial Wastes, UPM, Serdang, Sept 13-14, 1984.
3. Abdul Rahman Bidin, Fakhrul Razi Ahmadun and Azni Idris, Chemical Engineering Input in Agricultural Production, First Symposium of Malaysian Chemical Engineers, UKM, Bangi, May 21-22, 1984.
4. Azni Idris, Management and Utilization of Wastes - Malaysian Experience, Seminar on Environmental Control Development, Holiday Inn, Kuala Lumpur, March 20, 1990.
5. Azni Idris, Current Technology in the Treatment of Palm Oil Mill Effluent, Congress of Malaysian Chemical Engineering Students, Universiti Teknologi Malaysia, Kuala Lumpur, October 6, 1990.
6. Anhar Suki, Azni Idris, and Megat Johari M. M. N., Performance of an upflow anaerobic biofilter for treatment of POME, Seminar Program Bioteknologi Kebangsaan Kedua, Merlin Inn Bukit Fraser, November 5-6, 1990.
7. Anhar Suki, Azni Idris, Anaerobic Bioreactor Design Principle, Proceedings of the Workshop on Anaerobic Digestion Technology in Pollution Control, SIRIM, Shah Alam, Selangor, August 5-7, 1991.
8. Azni Idris, Ahmad Jusoh, Megat Johari Megat Mohd Noor and Anhar Suki, High Rate Anaerobic Digestion of POME, Seminar Penilaian IRPA RM5, Sektor Strategik, 16-19 December, 1991, Feringgi Beach Hotel, Pulau Pinang.
9. Azni Idris, Current Trends in Industrial Waste Management Practices, Proceedings of a National Seminar on Municipal and Industrial Waste Management and Technology, Park Royal Hotel, Kuala Lumpur, 18-19 February, 1992.

18. **Journals and Reports:**

Azni Idris, Current Trends in the Wastewater Treatment Processes, Journal on Technology for Development, Vol. 8, No. 2, 1990 (UNESCO/FEISEAP.)

Regional Seminar-Workshop on

Mohd Rashid Mohd Yusof, Azni Idris, Habeebullah, Indoor Air Quality Monitoring at Senju Sdn Bhd, 1990.

Ayub Mohd Som, Azni Idris, Operation Manual for Dyeing Effluent Treatment Plant at Unitex Shah Alam, 1990.

Azni Idris, Fakhru'l Razi Ahmadun, Ahmad Jusoh and Mohd Rashid Mohd Yusof, Environmental Impact Assessment Report on Jasma Quarry at Nyalas, Melaka, 1990.

Mohd Kamil Yusof, Puziah Abdul Latif, Wan Nor Azmin, Fakhru'l Razi Ahmadun dan Azni Idris, Laporan Kajian Perawatan Effluen Kilang Tekstil KIMA, Kajang, Selangor, 1984 (37 pages).

Azni Idris and Ayub Mohd Som, DBKL Terms of Reference (TOR) for Air Pollution Studies in Kuala Lumpur, 1990 (9 pages).

Azni Idris, The Effect of Scale on the Performance of Anaerobic Biological Fluidized Bed Reactor, Journal of International Water Pollution Research and Control, Water Research, paper already submitted for publication on 2 January 1991.

Azni Idris, Radin Umar Radin Suhadi and Azman Zainal Abidin, Air Pollution and Noise Studies Related To Traffic In Kuala Lumpur, DBKL Publication, November 1991 (154 pages) - LAPORAN TEKNIKAL.

A Preliminary Environmental Impact Assessment on a Seaside Redevelopment (4-star Hotel and shophouses) at Lumut, Perak, June 1991 (for Maju Perak Sdn Bhd)

A Preliminary Environmental Impact Assessment on Nilai Industrial Park (industrial and residential lots), Nilai, N. Sembilan, March 1991 (for AMDB/Arnica Corporation Sdn Bhd.)

A Preliminary Environmental Impact Assessment on 72-hole Golf Course Development (golf and bungalow lots) at Ulu Yam, Selangor, March 1992 (for Yayasan Selangor).

A Preliminary Environmental Impact Assessment on Port Dickson International Resort (a comprehensive recreational facilities with golf courses), August 1991 (for Menang Development (M) Sdn Bhd).

A Preliminary Environmental Impact Assessment on 27-hole Guthrie Golf Course (golf and residential lots), Port Dickson, February 1992 (for Kumpulan Guthrie Berhad).

A Preliminary Environmental Impact Assessment on Chalet Resort Development at Teluk Dalam, Pangkor, April 1992 (for Perbadanan Kemajuan Negeri Perak).

19. Consultancy:

1. Textile effluent survey and treatment system, 1984, Kajang, Selangor (Kilang MARA Sdn Bhd).
2. Turnkey Design and Construction of Textile Effluent Treatment System, 1989, Taiping, Perak (Arab-Malaysian Development Berhad).
3. Process Design for Wastewater Treatment Upgrade for Poultry Processing Industry, 1989, Port Kelang, Selangor (Kentucky Fried Chicken Processing Sdn Bhd).
4. Design and Construction of Dyeing Process Wastewater Treatment System, 1990, Shah Alam, (Unitex-Dyestex Sdn Bhd).
5. Turnkey Design and Construction of Printing Industry Wastewater Treatment System, 1990, Air Keroh, Melaka (Kotak Sdn Bhd).
6. Process Design of Chicken Processing Waste Treatment Plant, 1990, Senawang, Negri Sembilan, (Goldkist Sdn Bhd).
7. Process Design of Ceramic Wastewater Treatment System, 1990, Batu Caves, Selangor (S.E.Asia Ceramics Sdn Bhd).
8. Environmental Impact Assessment of a Quarry Operation at Nyalas, Melaka, 1990, (Jasma Quarry Sdn Bhd).
9. Process Design of Paint Making Waste Treatment Processes, 1990, Shah Alam, Selangor, (Colie Sdn Bhd).
10. Turnkey Design and Construction of Wastewater Treatment Upgrade for Vermicelli Manufacturing Factory, 1990, Melaka (MVM Sdn Bhd).
11. Turnkey Design and Construction of Automotive Industry Wastewater Treatment Processes, 1990, Shah Alam, Selangor (Associated Motor Industries Malaysia, AMIM-Ford Sdn Bhd).

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12. Air Pollution and Noise Monitoring for Kuala Lumpur City, 1990, K.L. (Dewan Bandaraya Kuala Lumpur).
13. Design Proposal for Airport Waste Treatment System, 1990, Subang Airport (Malaysian Airline System).
16. Turnkey Design Proposals and Construction of Fruit Processing Waste Treatment Plant at Serdang, 1990, (MARDI-PKPS Joint Venture).
17. Process Design Proposals for ITM Dungun Domestic Sewage Treatment Plant, 1990, (Tengku Sidek Consultants).
18. Process Design Proposals for KUBB Industrial and Residential Waste Treatment Facilities at Kuala Selangor, 1990 (Tengku Sidek Consultants).

ON-HEATING EFFLUENT TREATMENT

20. Seminars/Conferences/Courses Attended:

1. Seminar on Low Cost Automation, 11-12 March 1981, PDPN, Petaling Jaya.
2. Workshop on Technology Sale and Transfer, May 1981, Jaya Puri Hotel, Petaling Jaya.
3. Regional Conference on Environmental Education in Asean Universities and Its Transfer, 18-21 August 1981, UPM, Serdang.
4. Aquacare-Niva Seminar, KL Hilton, 14 November 1983.
5. Second Expert Consultation on Producer Gas Development in Asia and Pacific, 6-9 August 1983, Merlin Hotel, Alor Star/Haadyai.
6. Workshop on Quality in the Palm Oil Industry, KL Merlin Hotel, 2-3 August 1983.
7. Symposium Falsafah Islam, 22 October 1983, UKM, Bangi.
8. National Symposium on Engineering Towards Progressive Agriculture, 22-23 September 1983, UPM, Serdang.
9. Seminar on Project Management - Today and Tomorrow, 5-6 December 1983, Singapore.
10. Regional Seminar-Workshop on Biotechnology in Industrial Development, 27-30 March 1984, UPM, Serdang.
11. National Seminar on Management and Utilization of Industrial

Wastes, 13-14 September 1984, UPM, Serdang.

12. First Symposium of Malaysian Institution of Chemical Engineers, 21-22 May 1984, UKM, Bangi.
13. NRCT-JSPS Seminar on Environmental Protection and Law and Fourth Asian-American Conference on Environmental Protection, 17-20 December 1984, Chulalongkorn University, Bangkok.
14. Seminar on Gas Chromatography, September 1989, Ming Court Hotel KL.
15. Workshop on Hazardous/Scheduled Wastes - Regulation and management, 13-14 November 1989, Ming Court Hotel KL.
16. Seminar on Atomic Absorption Spectrometers, 6 December 1989, Ming Court Hotel, KL.
17. Seminar on Engineering for a Clean Environment Using Geomembrane Liner, 11 December 1989, Holiday Villa, Subang Jaya.
18. Seminar on Biotechnology for Agro-industrial Waste Management, 5 February 1990, Tara Hotel, Bangkok.
19. Regional Training Course on Biogas in Agroindustry, 6-16 February 1990, King Mongkut Institute of Technology, Bangkok.
20. Regional Seminar on Management and Utilization of Agro-Industrial Wastes, 21-23 March 1990, IPT, University Malaya, Kuala Lumpur.
21. Seminar on Environmental Technology Development, 20 March 1990, Holiday Inn Hotel, Kuala Lumpur.
22. Conference on Water and Wastewater '90, 24-27 April 1990, Barcelona, Spain.
23. Sixth Symposium of Malaysian Institution of Chemical Engineers, 4-5 June 1990, UTM, Kuala Lumpur.
24. Congress of Malaysian Chemical Engineering Students, Universiti Teknologi Malaysia, October 6, 1990, Kuala Lumpur.
25. Seminar Program Bioteknologi Kebangsaan Kedua, Merlin Inn Bukit Fraser, November 5-6, 1990, Pahang.
26. Training Courses on Overview of Hazardous Waste Treatment, East-West Center, November 8-10, 1990, Honolulu, Hawaii, USA.
27. Conference on Hazardous Waste Management, East-West Center, November 12-14, 1990, Honolulu, Hawaii, USA.

28. Training Workshop on Small and Medium Scale Electroplating Industries, November 15-17, 1990, Honolulu, Hawaii, USA.

29. Training Course on Hitachi Atomic Absorption Spectrometer, Katsuta City, Tokyo, Japan, 4-8 June 1991,.

30. ~~Environmental Protection and Law and~~ Sweden-Malaysia Seminar on Environmental Technology, The Raintree Club, May 30-31, 1991, Kuala Lumpur.

31. 1991, Annual Seminar on The Role of ASAIHL Universities in Promoting Preservation of the Environment, Airlangga University, May 6-8, 1991, Surabaya, Indonesia.

32. Workshop on Anaerobic Digestion Technology in Pollution Control, SIRIM, Shah Alam, Selangor, August 5-7, 1991.

33. Seminar Penilaian IRPA RM5, Sektor Strategik, 16-19 December, 1991, Feringgi Beach Hotel, Pulau Pinang.

34. National Seminar on Municipal and Industrial Waste Management and Technology, Park Royal Hotel, Kuala Lumpur, 18-19 February, 1992.

21. Awards and Travel Grants:

University of Chulalongkorn

Joint NRCT-JSPS Seminar on Environmental Protection and Environmental Law and the Fourth Asian-American Conference on Environmental Protection "Energy Production and Utilization: Implication on the Environment and Laws", December 17-20, 1984, Bangkok.

UNESCO/Energy Network

Seminar on Biotechnology for Agro-industrial Waste Management, February 5, 1990, Tara Hotel, Bangkok.

UNESCO

Regional Training Course on Biogas in Agroindustry, 6-16 February 6-16, 1990, King Mongkut Institute of Technology, Bangkok.

Lankhorst Environmental

Technical visit to Aeromix Systems, Tornado Surface

Aerators for Industrial
Applications, September 24,
1990, Minnesota, USA.

Pacific Basin Consortium
on Hazardous Waste Research

Conference on Hazardous Waste
Management, November 12-14,
Honolulu, Hawaii, USA.

UNESCO/Waste-Network

Meeting of Waste Secretariat at
Institut Pertanian Bogor,
December 5-7, Bogor, Indonesia.

UPM in Pollution

Conference on Water and Waste
Water, April 21-24, 1990,
Barcelona, Spain.

the Environment and
Health Research

Agro-industrial Waste

CHANGHONG, HONGKONG

Gas in Agroindustry, 8-16

Technical visit to