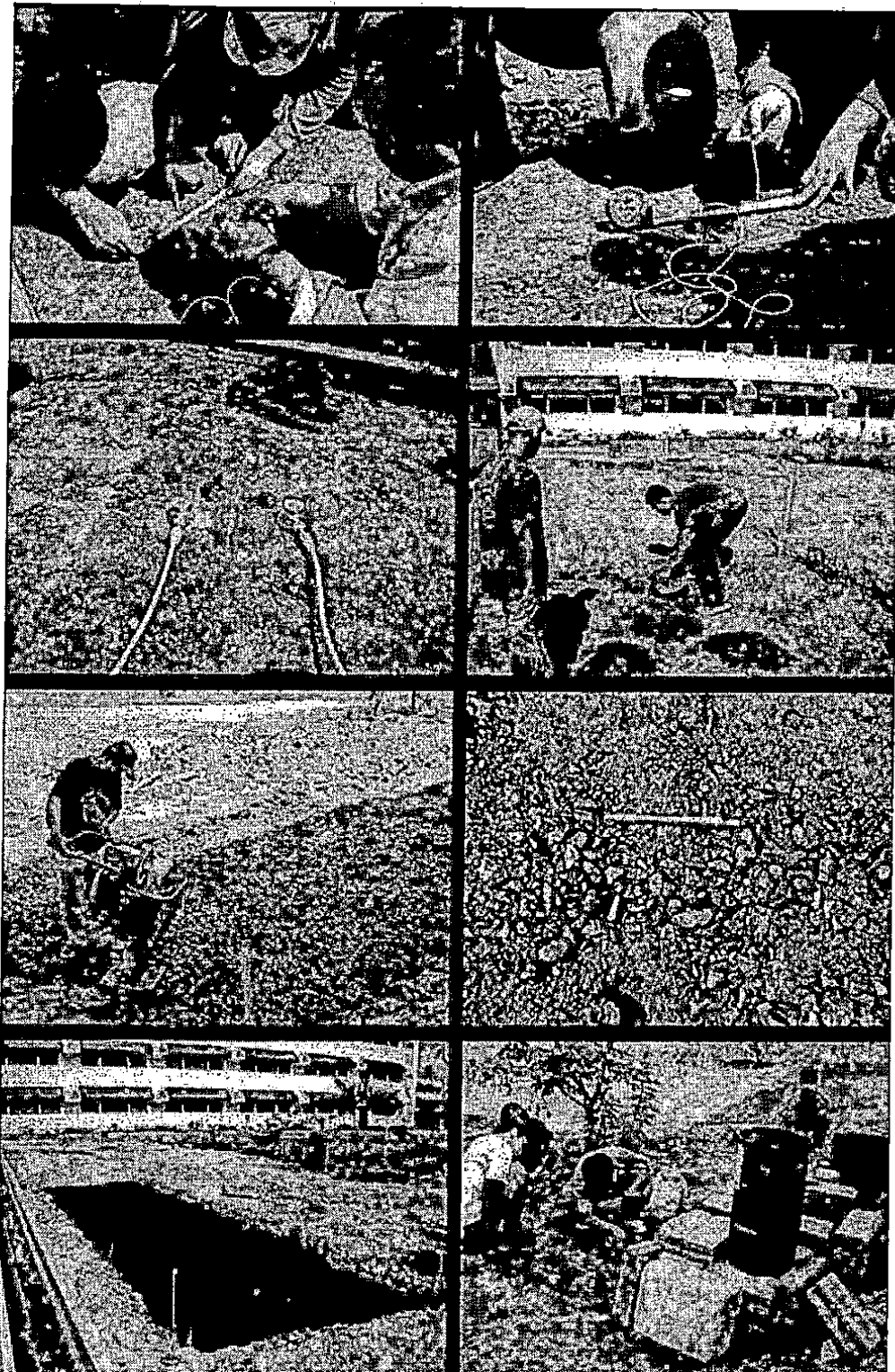
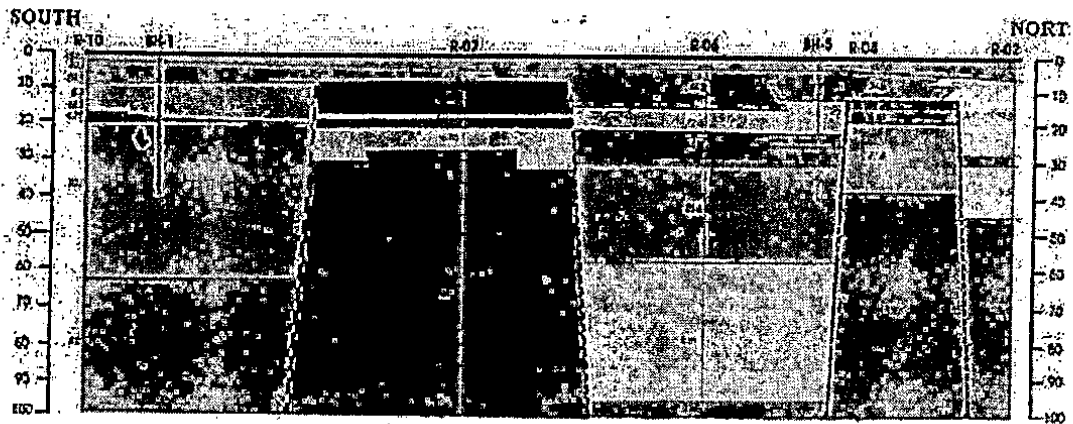










LAMPIRAN I : DOKUMENTASI PENELITIAN



**LAMPIRAN II : PROFIL PENGEBORAN DEKAT LOKASI MODEL
PERKERASAN DI UMY**



LEGENDA :

-  LAYAN PERKERASAN DASARAN BERAS BERARAS 40000 (Tebal 100) cm/m
-  LAYAN PERKERASAN DASARAN BERAS BERARAS 40000 (Tebal 100) cm/m
-  LAYAN PERKERASAN DASARAN BERAS BERARAS 40000 (Tebal 100) cm/m
-  LAYAN PERKERASAN DASARAN BERAS BERARAS 40000 (Tebal 100) cm/m
-  LAYAN PERKERASAN DASARAN BERAS BERARAS 40000 (Tebal 100) cm/m
-  LAYAN PERKERASAN DASARAN BERAS BERARAS 40000 (Tebal 100) cm/m
-  LAYAN PERKERASAN DASARAN BERAS BERARAS 40000 (Tebal 100) cm/m
-  LAYAN PERKERASAN DASARAN BERAS BERARAS 40000 (Tebal 100) cm/m

Dari hasil pengeboran diatas ditunjukkan bahwa tanah dasar di lokasi UMY merupakan

LAMPIRAN III : INSTRUMEN PENELITIAN

a. Laboratorium

No.	Nama Peralatan	Detail Peralatan	Tempat
1	Pengujian Dasar Aspal dan Marshall	Uji Penetrasi Uji Viskositas Uji Daktilitas Uji Berat Jenis Uji Titik Nyala/Bakar Uji Titik Lembek Uji Marshall	Laboratorium Teknik Transportasi UMY dan Laboratorium Bahan UMY Khusus untuk pengujian viskositas dan Marshall dilakukan di Laboratorium Teknik Transportasi UGM dan Lab. Teknik Kimia UGM.
2	Pengujian Dasar Agregat	Uji Berat Jenis Uji Abrasi LA Uji Pemadatan Uji CBR	Laboratorium Teknik Transportasi UMY dan Laboratorium Bahan UMY
3	Pengujian Dasar Tanah	Uji Berat Jenis Uji Batas Atterberg Uji Distribusi Butiran Uji CBR	Laboratorium Teknik Transportasi UMY dan Laboratorium Bahan UMY
4	Pengujian Modulus Resilien		Laboratorium Bahan Jalan Puslitbang,
5	Pengujian Lapangan	DCP dan CBR Lapangan	Laboratorium Teknik Transportasi UMY dan Laboratorium Bahan UMY

b. Peralatan Utama

- Penganalisis Spektrum Gelombang, 01 dB Buatan Perancis, kapasitas 3200 line spectrum yang dalam penelitian ini merupakan implementasi program penelitian bersama bersama Universitas Kebangsaan Malaysia dan Universitas Muhammadiyah Yogyakarta di bawah grant penelitian melalui Kesepakatan Penelitian antar Kelompok Studi Geoteknik UKM dan Kelompok Studi Teknik Transportasi UMY.

- Perangkat Lunak Matlab, WinSASW versi 2.0.0, SASW Analyser dan Plaxis 8.0.0 dari program penelitian bersama (*joint research*) dengan Universitas Kebangsaan Malaysia melalui Kesepakatan Penelitian antar Fakultas Teknik tahun sejak 2004.
- Perangkat Lunak dBFA 32 untuk FFT Process kepemilikan Universitas Muhammadiyah Yogyakarta.

LAMPIRAN IV : PERSONALIA TENAGA PENELITI

1. KETUA PENELITI

Nama Lengkap : Sri Atmaja Putra Jatining Nugraha Nasir Rosyidi
 Tempat/Tgl.Lahir : Purwokerto, 15 April 1978
 Alamat : Jl. Demakan Baru TR.III No.773A. Tegal Rejo. 55244.Yogyakarta.
 INDONESIA. Telp.: +62 (274) 620411, HP.: (0) 815 790 9887
 Alamat Kantor : Jurusan Teknik Sipil, Fakultas Teknik, Universitas Muhammadiyah
 Yogyakarta, Jalan Lingkar Barat, Tamantirto, Kasihan,
 Bantul,Yogyakarta, 55183. Telp. +62 (274) 387656 (229)
 E~mail : atmaja_sri@hotmail.com/atmaja_sri@yahoo.com

A. RIWAYAT PENDIDIKAN

Universitas/Institusi Lokasi	Gelar	Tahun Selesai	Bidang Studi
Universitas Muhammadiyah Yogyakarta	Sarjana Teknik	1999	Konsentrasi Transportasi
National University of Malaysia, Malaysia	Master of Science in Civil & Structural Engineering	2004	Research on Transportation Engineering

B. PENGALAMAN PENELITIAN

Nama Penelitian	Jabatan dalam Penelitian	Periode Kerja
Kajian Campuran Abu Sekam Padi dan Kapur sebagai Bahan Stabilisasi Lempung untuk Lapisan Tanah Dasar	Asisten Peneliti	1999
An Innovative Spectral Analysis of Surface Wave Method for Quality Assurance and Evaluation of Road Pavement (under IRPA Grant 09-02-02-0055-EI151, Malaysia)	Research Assisten	2001 – 2004 (36 bulan)
Evaluasi Tingkat Pelayanan Kereta Api PRAMEKS berdasarkan Kajian Pelibatan Publik	Ketua Peneliti	2004 (6 bulan)
Monitoring Stiffness Quality of Portland Cement Concrete Slab for Rigid Pavement Structures Using SASW Method (di bawah dana Penelitian Fakultas Teknik UMY), Kolaborasi Penelitian dengn UKM, Malaysia	Ketua Peneliti	2004 (6 bulan)
Studi Pengukuran Modulus Elastisitas Dinamik Lapangan pada Bahan Perkerasan Jalan Menggunakan Teknik Spektrum Gelombang Seismik (Studi Kasus pada Jalan Nasional Piyungan – Gading); Dana Penelitian Kopertis	Ketua Peneliti	2005 (4 bulan)
Studi Simulasi Model 2 D dan 3 D Gelombang Rayleigh dalam Analisis SASW untuk Evaluasi Nilai Struktural Infrastruktur	Ketua Peneliti	2005 (8 bulan)

C. PUBLIKASI ILMIAH

No.	Penulis	Publikasi (Nama Jurnal/Konferensi, Tempat,)	Judul Makalah
1.	S.A. Rosyidi, M.R. Taha, A. Ismail and Z. Chik	submitted-under review for International Journal of Non Destructive Testing and Evaluation, NDT&E	Concrete stiffness prediction of rigid pavement structure using in situ surface wave technique
2.	M.R. Taha, S.A. Rosyidi, A. Ismail and Z. Chik,	International Journal of Al-Azhar University Engineering (JAUES), Vol.2, No.3, April 2007: pp. 549 – 558.	Measurement of Seismic Parameter, Dynamic Shear Modulus and Bearing Capacity of Subgrade Layer on a Clayey Sandy Residual Soil
3.	S.A. Rosyidi	Civil Engineering Dimension, Journal of Civil Engineering Science and Application, Vol. 9, No. 1, March 2007: pp. 42-48.	Comparison Between 2-D and 3-D Stiffness Matrix Model Simulation of SASW Inversion for Pavement Structure
4.	S.A. Rosyidi, G.Hantoro, K.A.M. Nayan and M.R. Taha	Journal of Teknik Sipil, Atmajaya University of Yogyakarta, accepted and in-press	Development of Concrete Stiffness Monitoring system using SASW method
5.	S.A. Rosyidi, K.A.M. Nayan, M.R. Taha and A. Ismail	The International e-Journal of Non Destructive Testing, Vol. 11 No.6, June 2006	Estimating G_{max} of soil subgrade using a seismic method
6.	S.A. Rosyidi and K.A.M. Nayan	Jurnal Ilmiah Semesta Teknik, Vol.9., No.1, November 2006: pp. 96 – 104.	An integration of the seismic methods in characterization of an unsaturated granitic residual soil site
7.	S.A. Rosyidi, M.R. Taha, A. Ismail and Z. Chik	Proceeding of Graduate Research Seminar University Kebangsaan Malaysia, 29 – 30 August 2007 at Bangi, Malaysia	Wavelets Model of Seismic Waves for characterizing geotechnical engineering parameters and soil dynamics study
8.	S.A. Rosyidi, Siegfried, M.R. Taha, G. Handayani and G. Hantoro	Kolokium Nasional Pusat Penelitian dan Pengembangan Jalan dan Jembatan, Bandung, 28-29 November 2007 (invited paper)	New Technique of Advanced-Spectral Analysis of Surface Waves for Road Assessment in Indonesia
9.	S.A. Rosyidi, M.R. Taha, S.B. Lesmana, J. Wintolo and A.D. Adhi	Sixth International Conference on Case Histories in Geotechnical Engineering and Symposium in Honor of Professor James K. Mitchell at Arlington, VA (USA)- August 11-16, 2008 (accepted for presenting)	Some Lessons from Yogyakarta Earthquake of May 27, 2006
10.	S.A. Rosyidi, M.R. Taha, A. Ismail and Z. Chik	The 12th International Conference of International Association for Computer Methods and Advanced in Geomechanics (IACMAG), 1-6 October 2008 at Goa, India (accepted for presenting)	Determination of attenuation and geometric damping on clayey sandy residual soil in irregular profile using surface wave method
11.	S.A. Rosyidi, M.R. Taha, K.A.M. Nayan, A. Ismail, Z. Chik and Siegfried	Proceeding International of Conference of Advanced Characterisation of Pavement and Soil Engineering Materials: pp.895-902, 20 – 22 June 2007 at Athens, Greece.	Development of V_s -CBR, DCP empirical model for determining dynamic stiffness of base Layer using SASW

12.	M.R.Taha, S.A. Rosyidi, A. Ismail and Z. Chik	Al Azhar Engineering Eighth International Conference, April 12-14, 2007 at Cairo	Measurement of seismic parameter, dynamic shear modulus and bearing capacity of subgrade layer on a clayey sandy residual soil
13.	S.A. Rosyidi	International Joint Seminar-Muslim Countries and Development: Achievements, Constraints and Alternative Solutions (Multi-discipline Approach) 2. December 2006 at Yogyakarta	Surface wave technology in civil engineering applications
14.	S.A. Rosyidi, C.C.Jay Lin and S.B.Lesmana		Development of earthquake disaster management system in Bantul: study on housing and infrastructures damages for their reconstructions
15.	S.A. Rosyidi	9 th Regional Conference of Road Engineering (Eastern Region), Makassar, Indonesia, 20 – 21 July 2006	Use of the continuous source for surface wave analysis (CSSWA) in soil profile investigation
16.	S.A. Rosyidi, S. Hardwiyono, K.A.M. Nayan, Siegfried, M.R.Taha		Study on the elastic modulus of road using the SASW and FWD testing
17.	S.A. Rosyidi, M.R. Taha, A. Ismail and Z. Chik	National Seminar on Geotechnics, University of Gadjah Mada, Yogyakarta, Indonesia, 11 July 2006	Field measurement of frequency-independent attenuation and damping ratio on soil subgrade structure
18.	S.A. Rosyidi		Empirical model of shear wave velocity for obtaining the dynamic shear modulus and CBR parameter of Clayey Sandy Soil
19.	M.A. Ismail, S.A. Rosyidi, A.R. Samsudin, M.R. Taha, A.G. Rafek, and K.A.M. Nayan	Jurnal Ilmiah Semesta Teknik, UMY	In Situ Determination of Layer Thickness and Elastic Moduli of Asphalt Pavement Systems by Spectral Analysis of Surface Waves (SASW) Method
20.	S.A. Rosyidi and M.R. Taha	Jurnal Wahana Teknik Sipil, Polines	An Empirical Model of Shear Wave Velocity & Elastic Modulus – DCP For Predicting Soil Stiffness of Pavement Subgrade
21.	S.A. Rosyidi, K.A.M. Nayan, and M.R. Taha	Jurnal Teknik Sipil, Universitas Tarumanagara	Study on In-situ investigation of Frequency Independent Attenuation Coefficient in pavement structure using SASW technique
22.	S.A. Rosyidi, G.Hantoro, M.R.Taha and A.Ismail	3rd International Conference on Geotechnical Engineering combined with 9th Yearly Meeting of the Indonesian Society for Geotechnical Engineering: "Geotechnical Engineering for Disaster Prevention and Rehabilitation", 3rd August 2005, Semarang Indonesia:pp. 272-281	Estimating G_{max} & Field CBR Correlation of Soil-Subgrade Using Seismic Methods
23.	S.A. Rosyidi	Jurnal Ilmiah Semesta Teknik, UMY	Analisis Parameter Kecepatan Teoritik dan Nilai Beda Fase Gelombang Rayleigh Lapisan Aspal Perkerasan Jalan Berdasarkan Teori Perambatan Gelombang pada Media yang Homogen dan Isotropik
24.	S.A. Rosyidi, M.R.Taha, K A M Nayan and	International Symposium, Geolines 2005 pada 23 Mei 2005 di Lyon, Perancis	Predicting soil bearing capacity of pavement subgrade system using SASW method

	A.Ismail		
25.	S.A.Rosyidi, M.R.Taha and K.A.M.Nayan	International Seminar and Exhibition on Road Constructions (ISERC) pada 26 Mei 2005 di Semarang Indonesia.	Assesing In Situ Dynamic Stiffness of Pavement Layers with Simple Seismic Test
26.	S.A.Rosyidi, S.Hardwiyono and M.R.Taha	Jurnal Teknisia UII	A Non Destructive Refraction Method for Proposed Road Survey
27.	S.A.Rosyidi and M.R.Taha	7 th Annual Symposium of Indonesian Inter-University on Transportation Studies Forum (FSTPT) VII, BANDUNG, September 2004. Universitas Parahyangan.	Measurement of Pavement Moduli using Simple Surface Wave Propagation Technique
28.	S.A. Rosyidi, M.R.Taha, K.A.M.Nayan and A.Syamsuddin	Seminar on Geophysics 2004, 2nd August 2004, Esset Bangi Selangor Malaysia, Geological Society of Malaysia (GSM) and Malaysian Institute of Nuclear Technology (MINT), In situ investigation of Rayleigh wave attenuation in pavement from SASW measurements	In-situ investigation of Rayleigh wave attenuation in pavement structure from SASW measurements
29.	S.A. Rosyidi, M.R.Taha and K.A.M.Nayan	ASCE International Conference of DAM Engineering, Jordan, June, 12-14 th , 2004.	Evaluation of the base and subgrade layer on flexible pavement using SASW method
30.	S.A. Rosyidi, K.A.M.Nayan and M.R.Taha	Malaysian Geotechnical Conference at Petalingjaya Kuala Lumpur, 14- 16 Maret 2004. The Institute of Engineer Malaysia dipublikasikan pada Bulletin of The Institute of Engineer Malaysia	Measurement of subgrade stiffness using the SASW method
31.	S.A.Rosyidi, M.R.Taha and K.A.M. Nayan	Konferensi Nasional Teknik Jalan ke-7 (KNTJ-7), Hotel Horison, Jakarta, 7 - 8 Oktober 2003 diselenggarakan oleh Himpunan Pengembangan Jalan Indonesia (HPJI)	Determination the design input parameter of dynamic elastic modulus of road- pavement base layer using wave propagation technique
32.	S.A.Rosyidi, G.Hantoro and M.R.Taha		Use the shear wave velocity for predicting the stiffness of asphalt layer of pavement profile
33.	K.A.M Nayan, S.A. Rosyidi, M.R. Taha & M.A. Ismail	One Day Seminar of Application of Geophysics Technology for Engineering, University of Malaya	Civil engineering applications of the spectral analysis of surface wave (SASW) method
34.	S.A.Rosyidi, K.A.M. Nayan, M.R.Taha and M.M.Mustafa	5 th Annual Symposium of Indonesian Inter-University on Transportation Studies Forum (FSTPT) V, Jakarta 16-17 th October 2002. Center for Transport Studies. University of Indonesia	The Measurement of Dynamic Properties on flexible Pavement Using Spectral Analysis of Surface Wave (SASW) Method, (In Indonesia) Pengukuran Sifat Dinamik Perkerasan Lentur Menggunakan metode Spectral Analysis of Surface wave (SASW)
35.	Khairul Anuar Mohd.Nayan, Sri Atmaja Rosyidi, Mohd.Raihan Taha, and Mohd.Marzuki	Symposium A of Malaysian Science and Technology Congress (MSTC) 2002, Johor Bahru 19 th -21 st September 2002, Confederation of Scientific and Technological	Non-destructive testing of pavement using Spectral Analysis of Surface Wave (SASW) method

	Mustafa	Associations in Malaysia (COSTAM)	
36.	Khairul Anuar Mohd.Nayan, Sri Atmaja Rosyidi, Mohd.Raihan Taha and Mohd.Azmi Ismail	One Day Geophysical Seminar: Contribution of Geophysical Science on the Environmental and Conservation Studies. Pulau Pinang, Malaysia, 7 th September 2002, Geophysical Association, Geology Society of Malaysia, associated by Centre of Geophysical Studies, Science University of Malaysia (USM) & Geology Programme, Faculty of Science & Technology, National University of Malaysia (UKM)	The characterization of Ashapltic Pavement Based on SASW at Putrajaya, (In Malaysia) Pencirian turapan asfalt berdasarkan analisis spektrum gelombang permukaan (ASPG) di Putrajaya
37.	K.A.M Nayan, S.A.Rosyidi, M.R.Taha and O. Jaafar	International Conference on Culture and Science of Mountains (ICCSM), Kinabalu Park 9-10 th July 2002, Institute for Environment and Development (LESTARI), Universiti Kebangsaan Malaysia	The application of seismic refraction survey in the environmental impact assessment (EIA) of a proposed highway through the Perlis State National Park
38.	K.A.M Nayan, M.R. Taha and S.A. Rosyidi	The Annual Meeting of Geology Society of Malaysia 26-27 th May 2002. Geology Society of Malaysia, Bulletin of Geology Societv of Malavsia	Penggunaan seismos biasan dalam pencirian tanah tambakan di tapak projek pembinaan KAMSIS H UKM Bangi (In Malaysian)

2. ANGGOTA PENELITI 1

Nama Lengkap : Gunawan Handayani
 Alamat Kantor : Departemen Fisika, Institut Teknologi Bandung, Jalan Ganesha 10,
 Bandung, 40132, Telepon/Fax.022-2500977
 E-mail : handayan@bdg.centrin.net.id

A. RIWAYAT PENDIDIKAN

Universitas/Institusi Lokasi	Gelar	Tahun Selesai	Bidang Studi
Institut Teknologi Bandung (ITB)	Drs.	1984	Fisika
Department of Civil Environmental Engineering, University of Wisconsin- Madison, USA	MSCE.	1988	Geoteknik
Department of Civil Environmental Engineering, University of Wisconsin- Madison, USA	Ph.D.	1993	Geoteknik

B. PENGALAMAN PENELITIAN

Nama Penelitian	Jabatan dalam Penelitian	Periode Kerja
Judul penelitian: "Pembuatan Alat Pantau Struktur Jalan Raya tahan derau dengan tehnik tanpa merusak (Non Destructive Test)". Riset Unggulan Terpadu III	Peneliti Utama	1995-1997
"Evaluasi likuifaksi tanah dengan alat uji geser sederhana skala". proyek penelitian SPP/DPP Direktorat Jenderal Pendidikan Tinggi	Peneliti Utama	1996
"Pembuatan logging gantung S dengan tehnik Time Delay Spectrometry." Proyek penelitian yang dibiayai oleh Program Young Academics dari proyek University Research of Graduate Education Program of Ministry of Education	Peneliti Utama	1996-1998
"Non Destructive Test on Thick Concrete Slab using 3-D measurement of Ultrasonic wave and <u>Geo Penetrating Radar</u> ". Proyek penelitian yang dibiayai oleh Yayasan Toray	Peneliti Utama	1999-2000

C. HAK PATEN

Nama Paten
Sistem peralatan, yang tahan derau (noise), untuk mengukur tebal dan modulus elastik perkerasan jalan (No. publikasi paten oleh Direktorat patent: 026.198A).

Sistem logging gantung, yang tahan derau (noise), untuk mengukur secara serempak kecepatan gelombang P dan S dalam lubang bor (No. publikasi patent oleh Direktorat Patent: 026.195A). (Baru saja lolos pemeriksaan substantif, telah granted)

D. PUBLIKASI

Metoda Pengukuran Tanpa Merusak (Non-Destructive Test) Struktur Jalan Raya (Seminar Nasional Lustrum Himpunan Mahasiswa Sipil ITB VIII, 75 tahun Perkembangan Rekayasa Sipil di Indonesia, Aula Barat – Aula Timur ITB 26-27 Mei 1995).

Pole-dipole Electrical Resistivity Modeling for Cavity Detection in Karst region (ditulis bersama Frado Tua Sibarani sebagai penulis ke dua) (Technical Program Expanded Abstracts, Pertemuan Ilmiah Tahunan Himpunan Ahli Geofisika Indonesia ke 21, Jakarta 28-30 Oktober 1996.

Perancangan dan Pembuatan Alat Logging Gelombang S Tergantung dengan Metoda Time Delay Spectrometry (TDS) (Proceedings, PIT HAGI ke 22 di ITB Bandung, 16-17 October 1997.

Identifikasi Gelombang S pada seismogram tiga komponen (ditulis bersama Richard Hutasoit, Proceedings, PIT HAGI ke 22 di ITB Bandung, 16-17 October 1997)

Pemodelan Kurva Resistivitas Semu Pole-Dipole Akibat Pengaruh Rongga di bawah permukaan pada model bumi n lapis (ditulis bersama Muslim Nugraha, Proceedings, PIT HAGI ke 22 di ITB Bandung, 16-17 October 1997)

Interpretasi Gaya Berat dengan Transformasi Fourier untuk benda 2D dengan Fungsi Kontras Densitas Eksponensial (ditulis bersama dengan Karmani, Proceedings, PIT HAGI ke 22 di ITB Bandung, 16-17 October 1997)

Pengembangan Perangkat Evaluasi Bahan Elastik Tanah Noise dengan metoda Time Delay Spectrometry (ditulis bersama Unggul Wahyono, Proceedings, PIT HAGI ke 22 di ITB Bandung, 16-17 October 1997).

Non-Destructive Test (NDT) Measurements Using Vibratory Source Method on Concrete Samples and Pavements (Prosiding Seminar Geoteknik di Indonesia menjelang Milenium ke-3, Aula Barat ITB, 14-15 Januari 1998)

Menentukan Karakteristik Elastik Beton dengan Metoda Time Delay Spektrometry (ditulis bersama dengan Kosim, Prosiding Seminar Nasional Fisika Terapan dan Lingkungan, Serpong, 8 Desember 1997)

Laporan Akhir Penelitian dibiayai oleh Proyek: Peningkatan Penelitian dan Pengabdian kepada Masyarakat Dengan kontrak No. 030/P4M/DPPM/L.3311/94/BBI/1994 Departemen Pendidikan dan Kebudayaan dengan judul: Evaluasi Likuifaksi dengan tanah dengan menggunakan alat Large Scale Simple Shear Test

Laporan Akhir Riset Unggulan Terpadu III dengan judul: Pembuatan Alat Pantau Struktur Jalan Raya dengan tehnik tanpa merusak (NDT)

Laporan Akhir Penelitian Young Academics Program URGE, Batch I 1996/1998 dengan judul: Pembuatan Alat logging S tergantung dengan metoda Time Delay Spectrometry (TDS)

3. ANGGOTA PENELITI 2

Nama Lengkap : Siegfried
 Tempat/Tgl.Lahir : Padang, 17 November 1961
 Status : Dosen Luar Biasa Jurusan Teknik Sipil, Fakultas Teknik, Universitas Muhammadiyah Yogyakarta, Jalan Lingkar Selatan, Tamantirto, Kasihan, Bantul, Yogyakarta, 55183
 Alamat Rumah : Jalan Sentral V/33, Cibabat, Ciamhi Utara, Ciamahi, Jawa Barat.
 Alamat Kantor : Jalan Raya Timur 264 PO Box.2, Ujung Berung, Bandung 40294.
 E-mail : Siegfried@yifan.net, siegfried2001id@yahoo.com

A. RIWAYAT PENDIDIKAN

No.	Tingkat	Nama Pendidikan	Jurusan	STTB/Tanda Lulus/Ijazah/Tahun	Tempat
1.	Perguruan Tinggi	ITB	Sipil	1988	Bandung
2.	Pasca Sarjana	ITB	STJR	1992	Bandung
3.	Doktor	Ulster	Highway Eng.	1998	UK

B. PENGALAMAN PENELITIAN

No.	Judul	Tahun	Posisi
1.	Penelitian Hubungan Modulus Elastisitas Lapangan dan Laboratorium	2004	Anggota Team
2.	Penelitian Pemanfaatan Tailing untuk Bahan Perkerasan Jalan	2004	Anggota Team
3.	Penelitian Evaluasi Spesifikasi Campuran	2004	Anggota Team
4.	Penelitian Karakteristik Campuran Semen Tanah akibat Beban Lalu Lintas (Tahun 3)	2004	Anggota Team
5.	Penelitian Karakteristik Campuran Semen Tanah akibat Beban Lalu Lintas (Tahun 2)	2003	Penanggung jawab
6.	Penelitian Karakteristik Campuran Semen Tanah akibat Beban Lalu Lintas (Tahun 1)	2002	Penanggung jawab
7.	Pengkajian Perencanaan Perkerasan Lentur secara Analitis	2001	Penanggung jawab
8.	Pengkajian Perencanaan Perkerasan Lentur untuk Lalu Lintas Berat	2001	Anggota Team
9.	The study of contact characteristics between tyre and road surface	1995 – 1998	Thesis
10.	Penelitian Pengaruh Drainasi terhadap Kerusakan Jalan	1994	Penanggung jawab

4. ANGGOTA PENELITI 3

Nama Lengkap : Mohd.Raihan Taha
 Tempat/Tgl.Lahir : Seremban (N.Sembilan, Malaysia), 8 Juni 1962.
 Status : Professor Tamu dan Dosen Luar Biasa Jurusan Teknik Sipil, FT-Universitas Muhammadiyah Yogyakarta
 Alamat Kantor : a. Jurusan Teknik Sipil, Fakultas Teknik, Universitas Muhammadiyah Yogyakarta, Jalan Lingkar Selatan, Tamantirto, Kasihan, Bantul, Yogyakarta, 55183
 b. Department of Civil & Structural Engineering, Faculty of Engineering, Universiti Kebangsaan Malaysia, 43600, Bangi, Selangor, Malaysia. Telp.+60 (03) 8921 (6213)/Fax. 8921 (6147)
 E~mail : drmr@eng.ukm.my

A. RIWAYAT PENDIDIKAN

Universitas/Institusi Lokasi	Gelar	Tahun Selesai	Bidang Studi
Universiti Teknologi Malaysia	B.Eng Civil	1984	Civil Engineering
University of Maryland, USA	Master of Science	1987	Civil Engineering
Louisiana State University, USA	Ph.D	1996	Geo-Environmental Engineering

B. PENGALAMAN PENELITIAN

Nama Penelitian	Jabatan dalam Penelitian	Periode Kerja
An Innovative Spectral Analysis of Surface Wave Method for Quality Assurance and Evaluation of Road Pavement.	Peneliti	2001-2004
Soil-Cyanide Interaction.	Ketua Peneliti	1998
Characteristics of a Malaysian Residual Soil.	Ketua Peneliti	2000
Behavior of Georeinforced Malaysian Residual Soil.	Ketua Peneliti	2000
Hydrocarbon Contamination in the Subsurface Environment	Anggota Peneliti	2003
Research Cooperation on slope Stability.	Anggota Peneliti	2004
Use of Residual Soil in the Construction of Landfill Liners	Ketua Peneliti	2004

C. PUBLIKASI ILMIAH

No.	Publikasi (Nama Jurnal/Konferensi, Tempat,)	Judul Makalah
1.	International Symposium, Geolines 2005 pada 23 Mei 2005 di Lyon, Perancis.	Predicting soil bearing capacity of pavement subgrade system using SASW method
2.	International Seminar and Exhibition on Road Constructions (ISERC) pada 26 Mei 2005 di Semarang Indonesia.	Assesing In Situ Dynamic Stiffness of Pavement Layers with Simple Seismic Test
3.	Jurnal Teknisia UII (dalam nersianan	A Non Destructive Refraction Method for

	publikasi)	Proposed Road Survey
4.	7 th Annual Symposium of Indonesian Inter-University on Transportation Studies Forum (FSTPT) VII, BANDUNG, September 2004. Universitas Parahyangan.	Measurement of Pavement Moduli using Simple Surface Wave Propagation Technique
5.	2 nd International Conference of Soil Testing and Non Destructive Method at Portugal, 10-14 September 2004	In-situ investigation of Rayleigh wave attenuation in pavement structure from SASW measurements
6.	ASCE International Conference of DAM Engineering, Jordan, June, 12-14 th , 2004.	Evaluation of the base and subgrade layer on flexible pavement using SASW method
7.	Malaysian Geotechnical Conference at Petalingjaya Kuala Lumpur, 14-16 Maret 2004. The Institute of Engineer Malaysia dipublikasikan pada Bulletin of The Institute of Engineer Malaysia	Measurement of subgrade stiffness using the SASW method
8.	<u>Geotech. Testing Journal</u> , GTJODJ, Vol. 12, No. 2, American Soc. for Testing and Materials, New York, 135-142.	Cohesive Soil Behavior under Random Excitation Conditions
9.	<u>Pertanika J. of Science and Tech.</u> , 5 (1) Nov., UPM, pp. 111-126	Prediction and Determination of Undrained Shear Strength of Soft Clay at Bukit Raja
10.	<u>J. Water, Air and Soil</u> , Vol. 100, Kluwer Academic Publishers, Netherlands, pp. 33-48.	Surfactant Enhanced Desorption of TNT from Soil
11.	<u>J.Kejuruteraan</u> , Universiti Kebangsaan Malaysia, pp. 23-39.	Behavior and Removal of TNT in Electrokinetic Soil Processing
12.	<u>Journal Inst. of Engineers, Malaysia</u> , Vol 60., No. 2, September, pp. 49-58.	Interaction of Cyanide with Residual Soil and Kaolinite in Batch Adsorption Tests
13.	<u>Journal Inst. of Engineers, Malaysia</u> , Vol. 61. No. 2. June. pp. 27-40.	Effect of Matric Suction on the Shear Strength of Unsaturated Granite Residual Soil

5. ANGGOTA PENELITI 4

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A. RIWAYAT PENDIDIKAN

Universitas/Institusi Lokasi	Gelar	Tahun Selesai	Bidang Studi
Universitas Gadjah Mada	Ir.	1991	Civil Engineering
Institut Teknologi Bandung	MT.	1995	STJR

B. PENGALAMAN PENELITIAN

Nama Penelitian	Jabatan dalam Penelitian	Periode Kerja
Perbaikan Kualitas Agregat dengan Mortar Portland Semen	Ketua Peneliti	1996
Pengaruh Trap Void Uji Marshall Prosedur SNI 1990 pada Lapis Atas Aspal Beton	Ketua Peneliti	1998
Monitoring Stiffness Quality of Portland Cement Concrete Slab for Rigid Pavement Structures Using SASW Method (di bawah dana Penelitian Fakultas Teknik UMY), Kolaborasi Penelitian dengan UKM, Malaysia	Anggota Peneliti	2004 (6 bulan)

C. PUBLIKASI ILMIAH

No.	Publikasi (Nama Jurnal/Konferensi, Tempat,)	Judul Makalah
1.	Wahana Teknik Vol. 1. No. 1. ISSN 1411-044X, Jurnal Ilmiah Bidang Keteknikan Antar Perguruan Tinggi Swasta DIY, Yogyakarta	Fondasi Perkerasan Jalan Raya dengan Menggunakan Bahan Pengikat Road Oyl
2.	Wahana Teknik Vol. 1. No. 2. ISSN 1411-044X, Jurnal Ilmiah Bidang Keteknikan Antar Perguruan Tinggi Swasta DIY, Yogyakarta	Karakteristik Agregat Kasar dengan Dilapisi Mortar
3.	Konferensi Nasional Teknik Jalan ke-7 (KNTJ-7), Hotel Horison, Jakarta, 7 - 8 Oktober 2003 diselenggarakan oleh Himpunan Pengembangan Jalan Indonesia (HPJI)	Determination the design input parameter of dynamic elastic modulus of road-pavement base layer using wave propagation technique

4.	Semesta Teknik Vol. 1. No. 2. ISSN 1411-061X, Jurnal Ilmiah Fakultas Teknik Universitas Muhammadiyah Yogyakarta, Yogyakarta	Tinjauan Penentu Tebal Perkerasan Kaku
5.	Makalah Teknik, Konferensi Nasional Teknik Jalan Ke-6 (KNTJ 6), Himpunan Pengembangan Jalan Indonesia, Jakarta	Influence of the Blended Rice Husk Ash and Lime on Engineering Properties of Clayey Subgrade
6.	Proceeding of 3rd International Conference of Geotechnical Engineering. 3 – 4 Agustus 2005	Estimating G Max & Field CBR Correlation of Soil Subgrade Using Seismic Method