

Program Schedule of the 1st International Conference on Rehabilitation and Maintenance in Civil Engineering (ICRMCE)

Solo, Indonesia, 21st and 22nd March 2009

Friday, 20 March 2009

Time	Program	Venue
13.00 -17.00	Registration	Lobby hall, Hotel Dana

Saturday, 21 March 2009

Time	Program	Venue
7.30 – 8.30	Registration	Lobby hall, Hotel Dana
8.35 – 8.40	Welcoming speech and report by Chairman of ICRMCE Organizing Committee , <i>Dr. Sholihin As'ad</i>	Pendopo room, Hotel Dana
8.40 – 8.50	Welcoming speech by overseas partner <i>Prof. Dr. Ing. Franz Netzmann</i>	Pendopo room, Hotel Dana
8.50 – 9.00	Welcoming and opening speech by Rector of the University of Sebelas Maret (UNS-Solo), <i>Prof. Dr. dr. Syamsul Hadi, SpKj(K)</i>	Pendopo room, Hotel Dana
9.00 – 9.30	Keynote speech by Minister of Dept. of Public Works, Republic of Indonesia, <i>Ir. Djoko Kirmanto, Dipl. HE.</i>	Pendopo room, Hotel Dana
9.30 – 9.50	Refreshment / Coffee break	Lobby hall, Hotel Dana
9.50 – 12.00	Plenary session Chairman : <i>Dr. Ary Setyawan</i> Paper 1 : Head of BPKSDM Dept. of Public Works, Republic of Indonesia <i>Ir. Sumaryanto Widayatin, MSc.</i> Paper 2 : Karlsruhe Institute of Technology, Germany <i>Prof. Dr. Ing. Franz Netzmann,</i> Paper 3 : Department of Civil Engineering, Bandung Institute of Technology, ITB, <i>Prof. Dr. Sahari Besari,</i> Paper 4 : <i>Recent and Future Developments in Nondestructive Evaluation of Existing Bridges</i> Department of Civil Engineering, University of Gadjah Mada, UGM <i>Prof. Dr. Bambang Suhendro</i>	Pendopo room, Hotel Dana
12.00– 13.00	Lunch and Refreshment	Hotel Dana Cafe
13.00– 15.00	Parallel session	(see parallel session in detail)
15.00 – 15.15	Refreshment / Coffee break	
15.15 -- 17.15	Parallel session	(see parallel session in detail)

Parallel session in detail

Room 1 : Mawar Room Hotel Dana

A. Special Experiences on Building and Infrastructure Rehabilitation and Maintenance

N. Code on Building and Infrastructure Rehabilitation and Maintenance

F. Building and Infrastructure Damage Assessment

Chairman 1 : Dr. S. A Kristiawan (13.00 -15.00)

Chairman 2 : Dr. Syafii (15.15-17.15)

No	Presentation of Paper	Time
	Dr. Iswandi Imran (invited speaker) <i>Department of Civil Engineering Bandung Institute of Technology</i>	13.00 – 15.00
A1	Port Pier Condition Survey and Maintenance of Sepangar Bay Oil Terminal, Kota Kinabalu Jodin Makinda , Asmawan Sarman, Salinah Dullah, Radzif Taharin <i>Universiti Malaysia Sabah, 88999, Kota Kinabalu, Sabah, Malaysia</i>	
A2	Rehabilitation and Rearrangement of the Old Insurance Building in Omar Almuktar Street Benghazi- Libya Abdelsalam Mohamed Eljarm <i>Civil Engineering dep.University of Garyounis Benghazi-libya</i>	
A3	Retrofitting of School Building to Protect School Children from Earthquake Dewi Yustiarini ¹ , Krishna S. Pribadi ² , Dyah Kusumastuti ² ¹ <i>Indonesia University of Education</i> ² <i>Institute Technology of Bandung</i>	
A4	Rehabilitation of Buildings in The City of Manokwari and Samarinda Indonesia N.A. Husin and A. Budipriyanto <i>Faculty of Civil Engineering and Planning 10 Nopember Institute of Technology Surabaya (ITS)</i>	
A5	Deformation Behavior of Main Dike of Sidoarjo Mud Volcano D. Djarwadi <i>PhD Student, Engineering Faculty, Civil Engineering Department, Gadjah Mada University</i>	
	Refreshment / Coffee Break	15.00 – 15.15
N1	A National Standard for Seismic Rehabilitation of Existing Buildings Why We Do Not Have It To Date? Tavio, and B. Kusuma <i>Sepuluh Nopember Institute of Technology (ITS), Surabaya</i>	15.15 – 17.15
F1	The Damage Assessment of Weirs Along the 10-km Reach of River Tanggek and The Proposed Rehabilitation Method Yusron Saadi <i>Department of Civil Engineering University of Mataram, NTB - Indonesia</i>	
F2	Structural Damage Assessment of a Shear Building under Earthquake Excitations A.Budipriyanto ^{1*} , D.I. Wahyudi ² <i>Collage of Civil Engineering, Faculty of Civil Engineering and Planning, 10 Nopember Institute of Technology Surabaya (ITS), Indonesia^{1*}</i> <i>Doctoral Student, Department of Civil Engineering, Faculty of Civil Engineering and Planning,</i>	

	<i>Sepuluh Nopember Institute of Technology Surabaya (ITS), Indonesia²</i>	
F3	Damage Detection of Frame Structures Yoyong Arfiadi <i>Professor, Atma Jaya Yogyakarta University, Indonesia</i>	
F4	A Case Study of Structural Assessment of Steel Structure Subjected to Differential Settlement of Foundation M. Sigit Darmawan <i>Sepuluh November Institute of Technology (ITS), Surabaya, Indonesia</i>	

Room 2: Pendopo Room Hotel Dana

B. Advanced Technology on Building and Infrastructure Rehabilitation Technique

D. Assessment of Building and Infrastructure Performance Related to Natural Hazard

K. Building and Infrastructure Service Life Modeling

Chairman 1 : Dr. A.P. Rahmadi (13.00 -15.00)

Chairman 2 : Dr. A. P. Sudarno (15.15-17.15)

No	Presentation of paper	Time
	Dipl- Ing Edgar Bohner, MSc (invited speaker) <i>Karlsruhe Institute of Technology (KIT), Germany</i>	
B1	Current Practices on Cement Rendering in Australia R. Sri Ravindrarajah and Mikel Mansour <i>University of Technology, Sydney, Australia</i>	
B3	Comparison Between 2d and 3d Computer Modeling for Flexural Rehabilitation of Steel Structures with Hm-Cfrp and Steel Sheets Kambiz Narmashiri ¹ , Mohd Zamin Jumaat ² ¹ <i>PhD Student of Structural Engineering, Civil Engineering Dept., Faculty of Engineering, University of Malaya, Kuala Lumpur, Malaysia, Academic Staff in Islamic Azad University, Zahedan, Iran</i> ² <i>Professor, Civil Engineering Dept., Faculty of Engineering, University of Malaya, Kuala Lumpur, Malaysia</i>	13.00 – 15.00
B12	Numerical Study on the Effects of Hm-Cfrp End Cutting Shapes for Flexural Rehabilitation of Steel Structures Kambiz Narmashiri ¹ , Mohd Zamin Jumaat ² ¹ <i>PhD Student of Structural Engineering, Civil Engineering Dept., Faculty of Engineering, University of Malaya, Kuala Lumpur, Malaysia, Academic Staff in Islamic Azad University, Zahedan, Iran</i> ² <i>Professor, Civil Engineering Dept., Faculty of Engineering, University of Malaya, Kuala Lumpur, Malaysia</i>	
B13	Introduction of Repairing and Joining Methods for Simply-Supported Prestressed Bridges Using Link Slab Sugihardjo, H., and Supani <i>Department of Civil Engineering, Institut Teknologi Sepuluh Nopember (ITS), Surabaya,</i>	
B14	Utilization of Fibre Admixture in Improving the Geotechnical Properties of Volcanic Soil Tri Harianto <i>Hasanuddin University, Makassar, Indonesia</i>	
	Refreshment/ Coffee Break	15.00 – 15.15
K1	Service Life Prediction of Partial Pre-stressed Concrete Structures in a Marine Environment M. Sigit Darmawan <i>Sepuluh November Institute of Technology (ITS), Surabaya</i>	

K3	Quantifying the Reliability of Limited Site Investigations on the Design of Pile Foundations A. Arsyad ¹ , A.R. Djamaluddin ¹ , I. Maricar ¹ , A. Muthalib ² , M.B. Jaksa ³ ¹ University of Hasanuddin Makassar, Indonesia ² Wira Marga Engineering Consultant, Makassar, Indonesia ³ The University of Adelaide, Australia	15.15 – 17.15
D1	Earthquake Vulnerability of Residential Houses in Yogyakarta City Setya Winarno, Sarwidi Civil Engineering Department, Islamic University of Indonesia	
D3	Seismic Evaluation with Pushover Analysis on Assessment of 7-Story Irregular Building Nurlena Lathifah ¹ , Bernardinus Herbudiman ² ¹ Department of Civil Engineering, Institut Teknologi Nasional, Bandung ² Head of Structure and Material Laboratory, Dept. of Civil Engineering, Institut Teknologi Nasional, Bandung	
D4	Influence of Reinforced Concrete Column Section Dimensions on Pushover Capacity of 4-Story School Building Mohammad Ridha, Bernardinus Herbudiman Department of Civil Engineering, Institut Teknologi Nasional, Bandung, Indonesia	

Room 3: Melati Room Hotel Dana

C. Assessment of building and infrastructure performance

Chairman 1 : Dr. Kusno. A. Sambowo (13.00-15.00)

Chairman 2 : Setiono, MSc (15.15- 17.15)

No	Presentation of paper	Time
	Dr. Manoj Lohatepanont, (invited speaker) Department of Civil Engineering University of Chulalongkorn, Thailand	13.00 – 15.00
C1	Box Beams Subjected to Combined Load, Snapping and Strengthening by External Prestressing A. Ehmouda, A. O. Mohamed Engineering Academy, Tajoura – Libya	
C2	A Comparative Study of Models for Confinement of Concrete by Welded Wire Mesh B. Kusuma, and Tavio Department of Civil Engineering, Sepuluh Nopember Institute of Technology (ITS), Surabaya	
C5	A Study of Fiber Contribution to Generate Ductility of Lightweight Concrete Patty A.H, Rahardianto T The State Polytechnic of Malang, Indonesia	
C9	Durability of Lightweight Aggregate Concrete Panel for Modular Housing Construction Fahrizal Zulkarnain ¹ , Mahyuddin Ramli ² ¹ PhD Candidate, School of Housing, Building and Planning, Universiti Sains Malaysia, Malaysia ² Dean, School of Housing, Building and Planning, Universiti Sains Malaysia, Malaysia	
C16	Plastic Shrinkage Crack Analysis in One Way Reinforced Concrete Slabs ; Artificial Neural Network (ANNs) Vahid Razavi Tosee ¹ and Mohd. Zamin Jumaat ² ¹ Department of Civil Engineering, University of Malaya, Malaysia and lecturer	

	<i>in Joundi Shapour University of Technology, Iran, Dezful, Iran</i> <i>²Department of Civil Engineering, University of Malaya, Malaysia</i>	
	Refreshment / Coffee Break	15.00 – 15.15
C11	Reconstruction of Reinforcement Modelling for Prevent the Early Failure of Deep Beam Reinforced Concrete Erwin Rommel <i>Civil Engineering Departement, Engineering Faculty, Muhammadiyah Malang University</i>	15.15 – 17.15
C13	The Study of Structural Performance Under fatigue Cyclic loading Nawir Rasidi, <i>Civil Engineering State Polytechnic of Malang, Indonesia</i> <i>Doctoral Candidate, University of Brawijaya, Malang Indonesia</i>	
C7	The Influence of Roughness Base Apron Toward the Length of Hydraulic Jump Cahyono Ikhsan and Solichin, <i>Department of Civil Engineering, Sebelas Maret University (UNS-Solo)</i>	
C14	Influence of Confinement Modifications on Axial Capacity of Reinforced Concrete Column Bernardinus Herbudiman ¹ , Hazairin ² , Exaudi Manurung ³ <i>¹Head of Structure and Material Laboratory, Dept. of Civil Engineering, Institut Teknologi Nasional, Bandung,</i> <i>²Head of Dept. of Civil Engineering, Institut Teknologi Nasional, Bandung,</i> <i>³Alumni of Dept.of Civil Engineering, Institut Teknologi Nasional, Bandung,</i>	
C15	Strenght Assesment of a Heritage Brick Masonry School Building Against Earthquake Adil Ahmad ¹ and Khalid Moin ² <i>¹ Lecturer, Department of Civil Engineering, Jamia Millia Islamia, New Delhi, India</i> <i>² Professor, Department of Civil Engineering, Jamia Millia Islamia, New Delhi, India</i>	
C19	Comparison of the New Zipper Brace System Behavior with Inverted V-Brace in Elastic Zone in Simple Steel Frames Using the Finite Element Method Morteza Aboutalebi ¹ , Amin Nikkhouye shirazi ² <i>¹Ph.D Candidate (Structures), Dept. of Civil and environmental engineering, Shiraz University, Shiraz, Iran. Student member of ASCE</i> <i>² Civil Engineer, Atra Consulting Engineers, Shiraz, Iran</i>	

Room 4: Soedjatmoko I Gramedia

E. Smart Material for Building and Infrastructures Repair (Including Material Development for Building and Infrastructures)

Chairman 1 : Dr. Sholihin As'ad (13.00 -15.00)

Chairman 2 : Agus Hari Wahyudi, MSc. (15.15 – 17.15)

No	Presentation of paper	Time
	Prof. Moer Othman Hamzah (invited speaker) <i>School Of Civil Engineering, Universiti Sains Malaysia, Pulau Pinang, Malaysia</i>	
E1	The Potentials of Geopolymer for Rapid-Set High-Strength Cement in Concrete Repair Sotya Astutiningsih <i>Departemen Teknik Metalurgi dan Material</i> <i>Fakultas Teknik, Universitas Indonesia(UI), Jakarta, Indonesia</i>	
E2	The Advantage of Nylon Mesh for Beam Confinement Smart Material for Beam Repair	

	Rr. M.I. Retno Susilorini ¹ , Evans Setyanegara ² , Stefanus Adhitya Sagita ³ ¹ Lecturer, Department of Civil Engineering, Faculty of Engineering, Soegijapranata Catholic University, Indonesia ² Alumnus, Department of Civil Engineering, Faculty of Engineering, Soegijapranata Catholic University, Indonesia ³ Student, Department of Civil Engineering, Faculty of Engineering, Soegijapranata Catholic University, Indonesia	13.00 – 15.00
E4	The Influence of Accelerator Content against Shotcrete Compressive Strength, Absorption and Porosity as Structure Reinforcement Irwan Ridwan Rahim Civil Engineering Department Hasanuddin University, Indonesia	
E5	Resistance to Chloride Penetration of Blended Concrete Containing Rice Husk Ash: A Review Badorul Hisham, A. B ¹ , Ramadhansyah, P. J ^{2*} , Hamidi, A. A ³ ¹ Assoc. Prof, School of Civil Engineering Engineering Campus, Universiti Sains Malaysia, Pulau Pinang, Malaysia ² PhD student, School of Civil Engineering Engineering Campus, Universiti Sains Malaysia, Pulau Pinang, Malaysia ³ Professor, School of Civil Engineering Engineering Campus, Universiti Sains Malaysia, Pulau Pinang, Malaysia	
E10	Effects of Anti-Oxidants on Ageing of Asphalt Cement and Mixes Hamzah M.O ¹ , Ramadhansyah P.J ² , Muhamad Z ³ ¹ Professor, School Of Civil Engineering, Universiti Sains Malaysia, Pulau Pinang, Malaysia ² Postgraduate, School Of Civil Engineering, Universiti Sains Malaysia, Pulau Pinang, Malaysia ³ Student, School Of Civil Engineering, Universiti Sains Malaysia, Pulau Pinang, Malaysia	
	Refreshment / Coffee Break	15.00 – 15.15
E11	Evaluation of Porous Asphalt Mix Properties Subjected to Ageing Che Wan C.N ¹ , Hamzah M.O ² , Ramadhansyah P.J ³ ¹ Lecturer, Civil Engineering Department, Politeknik Tuanku Sultanah Bahiyah, Ministry of Higher Education, Malaysia. ² Professor, School of Civil Engineering, Universiti Sains Malaysia, Pulau Pinang, Malaysia ³ Postgraduate, School of Civil Engineering, Universiti Sains Malaysia, Pulau Pinang, Malaysia	15.15 – 17.35
E8	Beach Sand in Mortar Andang Widjaja Surabaya State University, Indonesia	
E14	Different Methods of Curing in Concrete Technology, Maintenance and Strengthen Mohammad Reza Halvahevar ¹ , Vahid Razavi Tosee ² , Pegah Mohammadi ³ ¹ Department of Civil Engineering, Azad Islamic Dezful, Iran ² Department of Civil Engineering, University of Malaya, UM, Malaysia and lecturer in Joundi Shapour University of Technology, Iran, Dezful, Iran ³ University of Malaya, Malaysia	
E15	Different Percentage of Bagass and Hair of Goat in Concrete Slab Application, PSC Reduction and Strengthen Vahid Razavi Tosee ¹ and Mohd. Zamin Jumaat ² ¹ Department of Civil Engineering, University of Malaya, Malaysia and lecturer in Joundi Shapour University of Technology, Iran, Dezful, Iran	

	² <i>Department of Civil Engineering, University of Malaya, Malaysia</i>	
E16	The Behavior of Clay Brick Masonry Wall with Glass Fiber Reinforced Polymer Strengthening Mardiana Oesman ¹ , Jonie Tanijaya ² , Sepry Rantesalu ² ¹ <i>Politeknik Negeri Bandung, Indonesia</i> ² <i>Universitas Kristen Indonesia Paulus, Makasar, Indonesia</i>	
E17	Use of Flowable High Strength Mortar as a Repair Material for Sustainable Engineering Construction Eethar Thanon & Mahyuddin Ramli <i>School of Housing Building & Planning, Universiti Sains Malaysia</i>	
E18	The Advantage of Waste Paper Sludge in Building Material Andang Widjaja <i>Doctoral Student, Civil Engineering Dept, Univesity of Diponegoro and Lecturer of Civil Engineering Department, Surabaya State University</i>	

Room 5 : Soedjatmoko II Gramedia

G. Building and Infrastructure Maintenance Strategy

J. Management on Building and Infrastructure Maintenance

H. Testing and Inspection

Chairman 1 : Dr. Mamok Suprpto (13.00-15.00)

Chairman 2 : Joko MSc. (PU) (15.15 – 17.15)

No	Presentation of paper	Time
	Ir. Jimmy Juwana, MSc. (invited speaker) <i>Indonesian Society of Building Maintenance, HAPBI, Indonesia</i>	
G1	Analysis of Faulty Designs Causing Construction Defects on Public School Building in Indonesia and Its Relationships with Rehabilitation Priorities Apif M. Hajji <i>Dept. of Civil Engineering, Faculty of Engineering, The State University of Malang</i>	
G3	Maintenance Strategy: A Case Study in the Defect Types and Maintenance Management System of Hostel Buildings Hardiman ¹ and Sharifah Akmam Syed Zakaria ² ¹ <i>Civil Engineering Department, Engineering Faculty, Syiah Kuala University, Banda Aceh,</i> ² <i>School of Civil Engineering, Engineering Campus, Universiti Sains Malaysia, Pulau Pinang, Malaysia.</i>	
G4	Effect of Decentralisation on Maintenance Road Ranking Criteria at Badung Regency of Bali I Gusti Agung Adnyana Putera, I Dewa Gede Suyasa, I Nym Sutarja <i>Graduate Program of Civil Engineering, University of Udayana, Bali</i>	13.00 – 15.00
G5	Evaluation of Decentralized Communal Wastewater Treatment in Yogyakarta Widodo B. ¹ ; Andik Y. ¹ ; Silvia U. ² ; Ribut L. ³ ¹ <i>Department of Environmental Engineering, Universitas Islam Indonesia (UII), Yogyakarta</i> ² <i>Alumni of Department of Environmental Engineering – UII</i> ³ <i>Center for Environmental Study (PSL) – UII</i>	
J1	A Study on Quality Cost Awareness in Civil Engineering Rehabilitation and Maintenance Programmes (A Case Study on Malaysia Construction	

	<p>Industry) Abdul Rahman Ayub¹, Ilias Said², Rosli Mohamad Zin³ and Mukhtar Che Ali⁴ ¹Faculty of Civil Engineering, UiTM Pulau Pinang ²Universiti Sains Malaysia ³Faculty of Civil Engineering, Universiti Teknologi Malaysia ⁴Construction Industry Development Board, Kuala Lumpur Malaysia</p>	
	Refreshment / Coffee Break	15.00 – 15.15
J2	Preliminary Study on Building Maintenance and Operation Contract Asmawan Mohd Sarman, Jodin Makinda Civil Engineering Program, School of Engineering and Information Technology, Universiti Malaysia Sabah, Malaysia	15.15-17.15
J6	The Farmer's Participation in the Maintenance of Irrigation Network to Support the Sustainability of the Irrigation System (Case Study in The Irrigation Area of Bondoyudo) Idah Andriyani, University of Jember, Indonesia	
J7	Highway Maintenance: A Case Study in the Defect Types and Maintenance Management of Asphalt Pavement Hardiman ¹ and Sharifah Akmam Syed Zakaria ² ¹ Civil Engineering Department, Engineering Faculty, Syiah Kuala University, Banda Aceh, Indonesia ² School of Civil Engineering, Engineering Campus, Universiti Sains Malaysia, Pulau Pinang, Malaysia	
J4	Minimizing Water Deficit Using Three Risk Indices on Existing Irrigation Water Management Mamok Suprpto and Solichin Department of Civil Engineering, Sebelas Maret University (UNS-Solo)	
H3	Karst Material Characteristics and Geotechnical Assessment on Construction of Bribin Underground River Barrage Ahmad Rifa'i Soil Mechanics Laboratory, Department of Civil and Environmental Engineering, Gadjah Mada University	
H4	Hydraulic Fracturing Test on the Clay Core of Rockfill Dam on Various Fine Contents D. Djarwadi ¹ , B. Suhendro ² , H.C. Hardiyatmo ² ¹ Doctoral Student, Engineering Faculty, Civil Engineering Department, Gadjah Mada University, Indonesia ² Lecturer, Civil Engineering Department, Gadjah Mada University, Indonesia	
H2	The Benefit If Gypsum Block for Measuring Soil Water Content Supriyono ¹ , Kabul Basah Suryolelono ² , Harry Christady Hardiyatmo ³ , Ahmad Rifa'i ³ ¹ PhD candidate, Diploma Program of Civil Engineering, Engineering Faculty, Gadjah Mada University, Yogyakarta, Indonesia, ² Professor, Engineering Department, Gadjah Mada University, Yogyakarta, Indonesia ³ Lecturer; Civil Engineering Department, Gadjah Mada University, Yogyakarta,	

Saturday, 21 March 2009

Time	Program	Venue
19.00 -21.00	Conference Dinner Farewell and closing speech <i>Dr. Ary Setyawan</i>	Hotel Dana Café and garden

Sunday, 22 March 2009

Time	Program	Venue
7.30 -8.00	Tour preparation	Lobby hall Hotel Dana
8.00 -16.00	Tour to Prambanan and Borobudur temples - Rehabilitation of Prambanan temple after Yogyakarta earthquake 2005 - Lunch at restaurant - Rehabilitation of Borobudur temple	Prambanan temple, Restaurant and Borobudur temple.