

**Full Name** : **Pariatmono**  
**Date of Birth** : January 11, 1962  
**Academic Background** : Earthquake / Structural Engineering  
**Present Affiliation** : Ministry of Research and Technology, Republic of Indonesia  
**Present Position** : Assistant to Deputy Minister for Development of Mathematics and Natural Science  
**Present Rank** (according to Indonesian Government Systems): Pembina Utama Muda (IV/c)



**Education** : Civil Engineering, Bandung Institute of Technology (ITB), Indonesia, 1986  
 Master of Science in Structural Steel Design, Structures Section, Department of Civil Engineering, Imperial College of Science, Technology and Medicine, London, UK, 1989  
 Doctor of Philosophy in Structural Stability, Structures Section, Department of Civil Engineering, Imperial College of Science, Technology and Medicine, London, UK, 1994

**Working Experience** :

2009 – present: Assistant to Deputy Minister for Promotion and Commercialization of Science and Technology, Ministry of Research and Technology, Jakarta, Indonesia  
 2008 – 2009 : Assistant to Deputy Minister for Promotion and Commercialization of Science and Technology, Ministry of Research and Technology, Jakarta, Indonesia  
 2006 – 2008 : Assistant to Deputy Minister for Analysis of Science and Technology Needs, Ministry of Research and Technology, Jakarta, Indonesia  
 1997 – 2006 : Lecturer in Civil Engineering Department, Mercu Buana University, Jakarta on Reinforced Concrete, Building Structural Design and Earthquake Engineering  
 1995 – 2000 : Director for Development, Agency for the Development of Natuna Island, Jakarta, Indonesia  
 1994 – 2006 : Researcher on Earthquake and Structural Engineering, Agency for the Assessment and Application of Technology, Jakarta, Indonesia  
 1989 – 1994 : Research Students at Department of Civil Engineering, Imperial College of Science, Technology and Medicine, London, UK  
 1988 – 1989 : Post-graduate students at Department of Civil Engineering, Imperial College of Science, Technology and Medicine, London, UK  
 1986 – 1988 : Junior Researcher in Finite Element Method for Engineering, Agency for the Assessment and Application of Technology, Jakarta, Indonesia

1985 – 1986 : Assistant to the Lecturer, Center for Computer Science and Information Systems, Bandung Institute of Technology, Bandung, Indonesia

**Special Assignment:**

2008 – Mar 2009 : Chair of Indian Ocean Wave 2009 (IOWave09) Task Team, Inter-governmental Coordination Group on Indian Ocean Tsunami Warning and mitigation Systems (ICG/IOTWS)

2006 – 2008 : Chairman of the Executing Team for Developing Indonesian Tsunami Early Warning Systems (Ina-TEWS)

2008 – present : Secretary of the JST – JICA Indonesia – Japan Research Collaboration “Multi-Disiplinary Hazard Reduction from Earthquakes and Volcanoes” and Group Head on Education and Outreach for Disaster Reduction

2008 – present : Chairman of the Implementation Committee, Capacity Building Unit of Indonesian Tsunami Early Warning Systems (Ina-TEWS)

2008 – present : Secretary of Scientific and Organizing Committee of International Conference on Tsunami Warning (ICTW) and Asian Conference on Disaster Reduction (ACDR) 2008, Bali, Indonesia, 12-14 November 2008

**Assignments on International Missions :**

Feb 25-26, 2009: Member of Indonesian Delegation to present “Current Development of Indian Ocean Wave 2009 (IOWave09) and Indonesian Proposal” at ICG/IOTWS Working Group V (WG5 – “A System for Interoperable Advisory and Warning Centers”) Inter-session Meeting, Bureau of Meteorology, Melbourne, Australia

May 22-23, 2008: Member of Indonesian Delegation in the Study Visit to compose joint proposal on “The Development of a Computer-Based Model for Earthquake Impact on the Transportation Systems in Jakarta”, University of Illinois at Urbana Champaign, Illinois, US

Apr 8-10, 2008: Member of Indonesian Delegation in the Fifth Meeting of International Coordination Group for the Indian Ocean Tsunami Warning and Mitigation Systems (ICG/IOTWS), Kuala Lumpur, Malaysia

Jan 22-24, 2008: Invited to present “Developing an Effective Tsunami Early-Warning Systems in Indonesia” at International Symposium on the Restoration Program from Giant Earthquakes and Tsunamis, Phuket, Thailand

Dec 6-7, 2007: Member of Indonesian Delegation in the Workshop on the Transition of US Indian Ocean Tsunami Warning Systems (IOTWS) Program to Indian Ocean Partners, Bangkok, Thailand

Jun 25-27, 2007: Member of Indonesian Delegation in the Asian Conference on Disaster Reduction (ACDR) 2007, Astana, Republic of Kazakhstan

Apr 2-3, 2007: Member of Indonesian Delegation in the Seminar on Tsunami Warning Operations under the Pacific Tsunami Warning and Mitigation Systems (PTWS): Protocols, Procedures and Best Practices for Monitoring, Evaluation and Alerting the Public – Building Capacities of National Meteorological Services and National Disaster Management Offices as Principal Stakeholders for the Timely Issuance of Tsunami Warnings to

Prepared Communities, Sponsored by UNESCO IOC and WMO, Petaling Jaya, Malaysia

- February 28 – March 2, 2007: Member of Indonesian Delegation in the Fourth Meeting of International Coordination Group for the Indian Ocean Tsunami Warning and Mitigation Systems (ICG/IOTWS), Mombassa, Kenya
- November 3-4, 2006: Member of Indonesian Delegation in the Regional Forum for Disaster Risk Reduction of Mega-Urban Regions, presenting “Current Status of Indonesia Tsunami Early Warning Systems and its Relevance to Megacities”, Kobe, Japan
- April 26-28, 2006: Invited to present “Current Status of Indonesian Tsunami Early Warning Systems” at International Seminar on Risk Management for Roads, Ha Noi, Viet Nam
- December 19, 2005: Invited to present “The Development of Tsunami Early Warning Systems in Indonesia” at Public Works Research Institute (PWRI), Tsukuba
- December 19, 2005: Invited to present “The Development of Tsunami Early Warning Systems in Indonesia” at Public Works Research Institute (PWRI), Tsukuba Japan
- December 14-15, 2005: Member of Indonesian Delegation in the International Workshop on the Restoration Program from Giant Earthquakes and Tsunamis, presenting “The Development of Tsunami Early Warning Systems in Indonesia”, Tokyo, Japan
- December 13, 2005: Invited to present “The Development of Tsunami Early Warning Systems in Indonesia” at Earthquake Defense, Kobe, Japan
- December 12, 2005: Invited to present “The Development of Tsunami Early Warning Systems in Indonesia” at Kyoto University, Kyoto, Japan
- November 14-16, 2005: Member of Indonesian Delegation in the International Symposium on Disaster Reduction on Coasts, presenting “The Development of Early Warning Systems in Indonesia”, Monash University, Clayton Campus, Melbourne, Australia

#### **Training and Teaching Experience:**

- 2009 - Present: Regular Education Program Group XLIII (*Program Pendidikan Reguler Angkatan XLIII*) at National Tenacity Institute (*Lembaga Ketahanan Nasional – Lemhannas*)
- 2007 : Second-level Management and Leadership Training for Indonesian Government Officials (*Pendidikan dan Latihan Kepemimpinan II – Diklatpim II*), National Administrative Agency (LAN). Achievement: Best Participants
- 2006 : Early-warning and “last-mile” Warning Dissemination, Bonn, Germany  
Awareness-raising in Disaster Management, Colombo, Sri Lanka  
Risk Management for Roads, Ha Noi, Viet Nam
- 2005 : Disaster Reduction on Coasts, Monash University, Melbourne, Australia  
Giant Earthquake and Tsunami in Indian Ocean, Tokyo, Japan
- 2004 : Long-span Cable-stayed Bridge, Beijing and Shanghai, China
- 2003 : Information and Communication Technology for Disaster Reduction Program, Tokyo, Japan
- 2002 : Earthquake Engineering and Seismic Resistant Design, National Research Committee of Earthquake Engineering, Taipei, Taiwan

- 1995 : Catia Basic, Indonesia Aircraft Industry, Bandung
- 1994 : Beyond 50 Floors, Himpunan Ahli Konstruksi Indonesia (HAKI), Jakarta
- 1988 : Basic Bridge Design to BS 5400, Steel Construction Institute, London
- 1988 : Design of Steel Work Connection, Steel Construction Institute, London
- 1988 : Building Steel Work Design, Steel Construction Institute, London
- 1985 : Various Courses on Personal Computers and Mainframes (FORTRAN, Pascal, Basic, Data Communication and Computer Graphics)
- 1997 – 2006 : lecturer in Civil Engineering Department, Mercu Buana University, Jakarta on Reinforced Concrete, Building Structural Design and Earthquake Engineering.

**Research Activities:**

1. Rapid Damage Assessment of Infrastructures after Natural Disaster, sponsored by the Ministry for Research and Technology, 2005
2. Submerged Floating Tunnel for Major Crossings, sponsored by the Agency for the Assessment and Application of Technology, 2005
3. The Design of Stress-Laminated Timber (SLT) Bridge, sponsored by Ministry for Research and Technology – PT. Struktura via Partnership Merit Research Scheme, 2002
4. The Conceptual Design of Jawa-Sumatra Bridge, sponsored by Ministry for Research and Technology – Bandung Institute of Technology via Partnership Merit Research Scheme, 2002
5. The Design of Seismic-Resistant Structures using Base-Isolation, sponsored by Ministry for Research and Technology – PT. Nusa Galih Pratama via Partnership Merit Research Scheme, 2001
6. The Experimental and Numerical Model of Conical Steel Shells Collapse, sponsored by British Steel Institute, 1990-1994
7. Finite Element Model for the Buckling of Steel Shells Structures, sponsored by the Agency of the Assessment and Application of Technology and Indonesia Aircraft Industry, 1987
8. Hybrid Finite Element Model for Large Offshore Structures, partially sponsored by PIKSI – ITB, 1986

**Publications:**

1. 2008, Main editor of a book entitled "Guideline for Executing Tsunami Exercise in Cities and Municipalities", Ministry of Research and Technology (in English and Bahasa Indonesia)
2. 2007, Main editor of a book entitled "Science and Technology as a Basic Principle of Disaster Management in Indonesia", Ministry of Research and Technology (in English and Bahasa Indonesia)
3. 2007, Main editor of a book entitled "Guideline to Tsunami Signboard", Ministry of Research and Technology (in Bahasa Indonesia)
4. 2007, Main editor of a book entitled "Guideline of Rapid Assessment for Building to serve as Escape Place in the event of Tsunami", Ministry of Research and Technology (in Bahasa Indonesia)
5. 2007, Main editor of a book entitled "Guideline to Develop Escape Building for Tsunami", Ministry of Research and Technology (in Bahasa Indonesia)
6. 2007, Main editor of a book entitled "Guideline to Develop Evacuation Route for Tsunami Mitigation Purposes", Ministry of Research and Technology (in Bahasa Indonesia)

Indonesia)

7. 2007, Main editor of a book entitled "Student Working Book: Awareness to Earthquake and Tsunami for Kindergarten and Elementary Schools", Ministry of Research and Technology (in Bahasa Indonesia)
8. 2006, Main editor of a book entitled "Practical Guideline for Public Relation Officers in Disaster Mitigation Related Issues", Ministry of Research and Technology (in Bahasa Indonesia)
9. 2004, "*The Failure of Superspan Bridges*", Proceeding of the International Conference on Structural and Foundation Failures, Singapore, 2-4 August 2004, pp. 143-154
10. 2004, "*Modelling the Experimental Results of Base-Isolation for Simple Structures*", (in Indonesian), Second National Conference on Earthquake Engineering, Yogyakarta, 20 January 2004
11. 2003, "*The Behaviour of Base-Isolation for Low-rise Structures*", Proceeding of the Ninth East Asia-Pacific Conference on Structural Engineering and Construction, Bali, 16-18 December 2003, pp. 138-143
12. 2002, "*The Development of Earthquake Engineering in Indonesia*", Proceeding of the International Seminar on Information Technology and Its Application on Earthquake Disaster Mitigation, Tokyo, 26-28 February 2002
13. 2001, "*Statistics Application in the Design Process of Concrete Structures*", (in Indonesian) Media ISTA, vol. IV no. 1, April 2001, pp. 23-30
14. 2001, "*The Crack Mechanism of Concrete Materials for Building*", (in Indonesian) Proceeding of the Teknologi untuk Negeri, March 2001, pp. 26-32
15. 2000, "*The Study of Compressive and Tensile Strength of Concrete Materials*", (in Indonesian) JSTI, vol. 2, no. 6, September 2000, pp. 48-60
16. 2000, "*Visual Inspection on Malfunctioning Structure*", (in Indonesian) Proceeding of the 2000 FTUI Seminar "Quality in Research", Jakarta
17. 2000, "*Application of Perturbation Methods to Structural Elastic Stability Analysis*", (in Indonesian) Proceeding of the 2000 FTUI Seminar "Quality in Research", Jakarta
18. 1999, "*Reducing the Impact of Seawater Intrusion in Jakarta Using Sub-surface Barrier*", (in Indonesian) Proceeding of Franco-Indonesia Conference on Space Industry and Hi-Tech Conference, Jakarta.
19. 1999, "*Numerical Simulation of Desalination Dam (with the Case in Natuna Island)*", (in Indonesian) Proceeding of Franco-Indonesia Conference on Space Industry and Hi-Tech Conference, Jakarta.
20. 1999, "*Imperfection Representation for Conical Shells*", Proceeding of the 1999 FTUI Seminar on Quality in Research, Jakarta.
21. 1998, "*The Experiment on Elasto-plastic Buckling Failure of Conical Shells under Axial Compression*", Proceeding of the Fifth Asian Symposium on Visualization, Serpong.
22. 1998, "*The Development of Kuala Binjai Area Using Desalination Dam*" (in Indonesian), Proceeding of Conference on Developing Small Islands, Jakarta.
23. 1998, "*The Analysis on the Utilization of Surface Water Resources in Natuna Island*" (in Indonesian), Proceeding of Conference on Developing Small Islands,

Jakarta.

24. 1997, "*Buckling Tests of Unstiffened and Stiffened Conical Shells in Compression*", Proceeding of International Conference on Carrying Capacity of Steel Shell Structures", Brno, Czech Republic.
25. 1997, "*Numerical Model for the Application of Sub-surface Barrier to Inhibit Salt-water Intrusion*" (in Indonesian), Majalah BPPT, no. LXXVIII
26. 1996, "*Comparison Among Code Procedures on the Design of Conical Shells under Axial Compression*", Proceeding of International Symposium on Offshore Engineering, Bandung.
27. 1995, "*Asymmetric Elastic Buckling of Axially Compressed Conical Shells with Various End Conditions*", American Institute of Aeronautics and Astronautics (AIAA) Journal, vol. 33, no. 11.
28. 1995, "*Elastic Buckling of Conical Panels under Axial Compression*", Proceeding of IASE 7 Conference, Manchester, UK.
29. 1993, "*The Effect of Boundary Conditions on the Buckling of Conical Shells under Axial Compression*", Proceeding of IASE 5 Conference, Leuven-Belgium, 1993.
30. 1993, "*Isometric Rectangular Element for Static Analysis of Thin Plate using Direct Solution Procedure*" (in Indonesian), Proceeding of National Symposium on Numerical Methods for Structural Engineering, Bandung.
31. 1993, "*Instalation and Verification of SAP-V2 on IBM S/3090*" (in Indonesian), BPPT Technical Report.
32. 1989, "*Artificial Intelligence*" (in Indonesian), Majalah Teknologi
33. 1988, "*Software for Static Analysis of Thin Plates and Shells*" (in Indonesian), BPPT Technical Report.
34. 1986, "*Analysis of Wave-pattern Disturbance using Hybrid Finite Element Method*" (in Indonesian), Proceeding of HATHI conference, Jakarta.

#### **Translation Work:**

##### **1. Struktur & Arsitektur, Edisi Kedua, 2002**

Published by : Penerbit Erlangga (member of IKAPI), Jl. H. Baping Raya No. 100, Ciracas, Jakarta 13740, e-mail: [mahameru@rad.net.id](mailto:mahameru@rad.net.id)

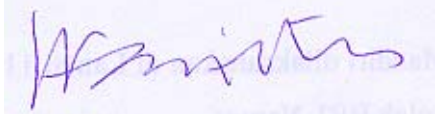
Translated from : "*Structure and Architecture*", Second Edition by Angus J. Macdonald, © Reed Educational and Professional Publishing Ltd, 2001

##### **2. Pokok-pokok Teknologi Struktur untuk Konstruksi dan Arsitektur, 2003**

Published by : Penerbit Erlangga (member of IKAPI), Jl. H. Baping Raya No. 100, Ciracas, Jakarta 13740, e-mail: [mahameru@rad.net.id](mailto:mahameru@rad.net.id)

Translated from : "*Essential Structural Technology for Construction and Architecture*", by Burl E. Dishongh, © Prentice Hall, 2001

Jakarta, March 23, 2009



(Pariatmono)