

CURRICULUM VITAE

Personal Data

Full Name : R. Hadi Sardjono
Major Areas of Interest : Electromagnetism (EM) Metrology
Current Address : Puslit KIM – LIPI, Komplek PUSPIPTEK, Serpong,
Tangerang, Banten - INDONESIA.
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Education

Post Secondary

<i>Name, Place and Country of Educational establishment</i>	<i>Degrees and Main Subject</i>	<i>Year Obtained</i>
1. Brawijaya University Malang, Indonesia	Engineer Electrical	1985
2. Indonesia University Jakarta, Indonesia	M.Eng.Sc Metrology	1991

Present Professional Position

Institution : R & D Centre for Instrumentation, Calibration and Metrology Indonesian Institute of Science.
Position : 1. Senior Researcher in Electrical Metrology Laboratory
Year : 2007 Duration : 5 years

Previous Profession Position : 1. Head of Calibration Laboratory, P3KIM-LIPI
Year : 1998 Duration : 2 years
2. Head of Optic Metrology Laboratory, P3KIM – LIPI.
Year : 2000 Duration : 1 yr
3. Head of Electrical Metrology Laboratory, P3KIM –
LIPI.
Year : 2001 Duration : 5 yr

Other Studies and Job Trainings.

1. On the Job Training on Energy Audit,
Organized by Departemen Pekerjaan Umum, Indonesia.
Year : 1986 Duration : 2 weeks
2. Workshop on Harmonization of Metrology on DC Voltage in ASEAN,
Organized by UNIDO in SISIR, Singapore..
Year : 1993 Duration : 1 week
3. Training on Using the ISO "Guide to the Expression of Uncertainty in Measurement"
Jointly Organized with CSIRO, Melbourn Brench
Year : 1996 Duration : 4 days.
4. Job Training on Assessment of Calibration Laboratories
Jointly Organized with NATA, Australia
Year : 1998 Duration : 5 days
5. Training on AC- DC Thermal Transfer Standard,
Jointly Organized (Bilateral) with NML, Australia.
Year : 1998 Duration : 3 weeks
6. Job Training in The Aplication of Jepanese Legal Metrology Law.
Organized by JICA, Japan.
Year : 1999 Duration : 5 months
7. ASIAN Seminar and Workshop on Measurement Standards in Bangkok
Organized by JICA/NIMT Project, NMIIJ of Japan, MITI of Japan.
Year : 2004 Duration : 5 days
8. ASIAN Seminar and Workshop on Measurement Standards in Japan
Organized by MSTQ Project, NMIIJ of Japan, MITI of Japan.
Year : 2004 Duration : 4 days
9. Operational and Maintenance of Josephson Junction Voltage Stadnards at the Korea
Research Institute of Standards and Science (KRISS) , Korea.
Organize by IQUANTUM – Japan.
Year : 2007 Duration : 2 weeks.
10. Programmable Josephson Voltage System (PJVS) Operational Training in NMIIJ -
Japan and Puslit KIM-LIPI, Indonesia.
Organize by IQUANTUM – Japan.
Year : 2008 Duration : 6 days.

Participation in Scientific Events.

1. Annual meeting & seminar on Instrumentation, Calibration and Metrology.
Year : 1988 Duration : in active
2. Second Regional Symposium on Optoelectrotchnics
Organized by University of Indonesia, Jakarta.
Year : 1989 Duration : 8 hours
3. Seminar on Correction Concept of Legal Metrology Law
Organize by the Department of Industry and Trade , Metrology Directorate, Bandung.
Year : 2000 Duration : 8 hours
4. Assessor Appreciation of Calibration Laboratory II – 2000,
Organized by National ACCreditation Committee.
Year : 2000 Duration : 2 days
5. Workshop on “Standardization expert – Quality Control (TAS-QC) refreshment of SNI formulation”
Orgenaized by National Standardization Body (BSN)
Yea : 2006 Duration : 8 hours

Participation in Profession Members.

1. Calibration Laboratory Asessor of SNI 19-17025
Organized by National ACCreditation Committee
Since : 2000
2. Standardization expert of Quality Control
Organized by National Standardization Body (BSN)
Since : 2000

Field Experience Highlights

1. Calibration and Metrology Promotion Programm (Seminar and Calibration Demo)
Participants : Industries, Research Laboratory and Universities in the region.
Jointly organized with the Department of Industry and/or Trade at Yogyakarta, Mid of Java
Year 1993 Duration : 1 week
 2. On-site assessment
Calibration laboratory of Telkom Surabaya, PT Telkom Indonesia Tbk. – Surabaya
Year 2005 Duration : 2 days
Yokogawa Indonesia Standard laboratory centre – Jakarta
Year 2006 Duration : 12 hours
Calibration laboratory of PT. BERCA HARDAYA PERKASA – Batam
Year 2006 Duration : 2 days
Calibration laboratory of Telkom Makasar, PT Telkom Indonesia Tbk. – Makasar
Year 2007 Duration : 2 days

Publication.

Scientific, Technical and Semipopular Papers.

1. Pengukuran otomatis sel standar (Automatic measurement of the standard cells), Proceeding of PPI – KIM 1988.
 2. Pengukuran Sel Standar Menggunakan pembandingan silang tereduksi (Standard Cell Measurement Using The Reduced Cross Comparison), Proceeding of PPI – KIM 1993
 3. The characteristic qualification of Plumbo alloy and Bismuth alloy for application on AC current measurement (Kualifikasi karakteristik dari campuran Plumbo dan Bismuth untuk aplikasi pengukuran arus AC)), Journal of Instrumentation (KIM-LIPI) , 1993.
 4. Aplikasi kontak suhu rendah pembalik polaritas pada rangkaian system kalibrasi sel standar (The application of low thermal electronic switch as reversing polarity on the circuit system of cell standard calibration), Journal of Instrumentation (KIM-LIPI), 1994.
 5. Sistem kalibrasi sel standar nasional dengan ketelitian mencapai 0,5 ppm (The calibration system of National standard cell with their Accuracy 0.5 ppm), Journal of Instrumentation (KIM-LIPI), 1997.
 6. Aplikasi choke koaksial pada sistem kalibrasi TTS dengan ketelitian dibawah 50 ppm (The application of coaxial choke on the calibration system of Thermal Transfer

- Standard (TTS) with their Accuracy bellow than 50 ppm), Journal of Instrumentation (KIM-LIPI), 1998.
7. Pemantapan ketertelusuran tegangan AC menggunakan metode pembandingan *build-up* standar TVC dari 2 V ke 4 V (Traceability establishment of AC voltage using build-up comparison method from 2 V to 4 V of TVC standard, Journal of Instrumentation (KIM-LIPI) , 2003.
 8. Pemantapan standar DC baru 10 V di KIM – LIPI (The establishment of a new 10 volt DC standard at KIM-LIPI), Journal of Instrumentation (KIM-LIPI), 2004.
 9. Standarisasi kompetensi Laboratorium Kalibrasi melalui program Uji Banding Antar-Laboratorium tegangan DC 1 V (Competence standardization Calibration Laboratory program through the Inter-Laboratory Test Appeal DC voltage of 1 V), Prosiding-BSN, 2005.
 10. Penetapan kemampuan pengukuran terbaik dari sistem pengukuran metode langsung dan tak-langsung di metrologi kelistrikan (Best measurement capability determination of the direct and indirect method measurement system on electrical metrology) , Computer Technics Journal – UBINUS, 2006
 11. Penerapan ketelitian sistem pengukuran tegangan DC standar nasional 1 V pada ketelitian 1.7 ppm. (Implementation of 1 V national standard of DC voltage measurement at 1.7 ppm Accuracy), Journal of Instrumentation (KIM-LIPI), 2006.
 12. Sebuah standarisasi kompetensi metrologi listrik unit tegangan DC, Jurnal Standardisasi (A standardization of electrical metrology competence of DC voltage unit), Journal of Standardization (BSN), 2006
 13. (Pemantapan ketertelusuran standar arus mencapai 20 A dengan akurasi sebesar 100 ppm.) The establishment of the current standard trACeability up to 20 A with its Accuracy of 100 ppm., Journal of Instrumentation (KIM-LIPI), 2006
 14. Desain sistem diseminasi dari konverter tegangan termal TVC berdasarkan analisa beda tegangan AC - DC (Dissemination system design of thermal voltage converter TVC based on the AC – DC voltage difference analysis), Computer Technics Journal – UBINUS, 2007.
 15. Analisis Visibilitas realisasi tegangan DC Unit Standar Internasional untuk Puslit KIM-LIPI Berdasarkan Definisi Quantum dengan itu Akurasi bawah 0,1 ppm (Visibility Analyses of the realization of DC voltage International Standard unit for Puslit KIM-LIPI Based On Quantum Definition with it Accuracy bellow 0.1 ppm), Journal of Standardization (BSN), 2008
 16. Pemantapan standar nasional tegangan listrik DC (V_{DC}) berbasis STJT (Sistem Tegangan Josephson Terprogram) di Laboratorium Puslit KIM – LIPI dengan ketelitian 0.06 ppm (Strengthening of the national standard DC voltage (V_{DC}) based

PJVS (Programmable Josephson Voltage System) in the Laboratory of the Research Center KIM - LIPI with accuracy 0.06 ppm), INSTRUMENTASI, Juni 2009.

17. Meningkatkan Kestabilan Sistem Pengukuran Standar Nasional Arus AC Dengan Metoda Sangkar Faraday Lebih Kecil Dari 5 ppm (Enhance the measurement System Stability of AC current national standard using Faraday cage method with it accuracy bellow 5 ppm), Jurnal Standardisasi (BSN), 2009.
18. Pemvalidasian Tingkat Kestabilan Nilai Deviasi Standar Nasional Arus AC Pada Sistem Pengukuran TCC (Thermal Current Converter) Dengan Tingkat Ketelitian Lebih Kecil Dari $10 \mu\text{A}/\text{A}$ Berdasarkan Metode Peminimisasi Rugi Rugi (The stability level validation of AC current standard deviation value on the TCC measurement system with accuracy level bellow $10 \mu\text{A}/\text{A}$ based on the noise minimization), INSTRUMENTASI, 2010
19. Perancangan Chamber dengan suhu terkondisi untuk frekuensi standar pada kestabilan mencapai $4,6 \times 10^{-15}$ (Chamber design with temperature conditioned to the standard frequency stability up to 4.6×10^{-15}), Jurnal Standardisasi (BSN), 2011
20. Verifikasi Sistem Pengukuran Tegangan Standar AC Berbasis METCAL 7,20 Berketalitien Mencapai 2 ppm, Jurnal Standardisasi (Verify a standard AC Voltage Measurement System-Based Metcal 7.20 ppm with accuracy of 2 ppm), Vol. 14, No. 1, Hal 1- 82, ISSN 1411-0822, Jakarta, Maret 2012.
21. Pengembangan Sistem Pengukuran Tegangan Tembus Frekuensi Rendah (50 Hz / 60 Hz) untuk Standardisasi Arus Bocor Isolator pada Tegangan Tinggi untuk Kondisi Kering dan Basah (Development of Measurement System of Low Frequency Breakdown Voltage (50 Hz / 60 Hz) for Standardization Current Leak on High Voltage Isolator for Dry and Wet Conditions), Jurnal Standardisasi, Vol. 14, No. 3, Hal 173-259, ISSN 1411-0822, Jakarta, November 2012.
22. Pengaruh frekuensi daya radio frekuensi pada standar nasional V_{DC} berketelitian lebih baik dari 0,1 ppm (The influence of Radio Frequency Power To The National Standard of V_{DC} With Accuracy better than 0.1 ppm) , will be publish by Jurnal Standardisasi on September 2013.

Teaching Experience.

1. Lecturer at Training center of PUSLITBANG KIM-LIPI on the following subjects :
 - a. Electrical Metrology and Calibration
 - b. Instrumentation.

Since 1987.

2. Lecturer at ‘Technical faculty of computer system, Bina Nusantara University’, Jakarta, for the following subjects,
 - a. Instrumentation and Measurement Technics
 - b. Digital electronic circuit
 - c. Electronics circuit theory
 - d. Discrete mathematic
 - e. Electric Power Technics
 - f. Computer Network

Since 1992.

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