


Brief Biodata

Dr. Saood Ahmad

Designation:	Senior Principal Scientist	
DP No. and Name:	D#6.02, LF & HF Voltage, Current and Microwave Metrology	
DU No. and Name:	D#6.0, Indian Standard Time	
Email:	ahmads@nplindia.org	
Date of Joining CSIR-NPL:	27-02-2006	
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Research Area/ Interest

Microwave Electronics / Microwave measurements

Educational Qualifications

(Please write latest qualification first)

Degree	Subject	University/ Institute	Year
Ph.D	Applied Physics	Delhi Technological University, DTU	2018
M.Tech	Microwave Electronics	Delhi University	2001
M.Sc.	Electronics	J.M.I University	1998
B.Sc. (H)	Physics	J.M.I University	1996

Academic / Research Experience

Grade / Post	Institute	Duration		Research Field
		From	To	
Sr. Principal Scientist	CSIR-NPL	2018	Till date	Microwave measurements
Principal Scientist	CSIR-NPL	2014	2018	Microwave measurements
Senior Scientist	CSIR-NPL	2010	2014	Microwave measurements
Scientist	CSIR-NPL	2006	2010	Microwave measurements
Engineer/Junior Sc.	DRDO	2001	2006	Microwave measurements

No. of Publications

No. of Publications in SCI Journals	No. of Publications in non-SCI Journals	No. of Publications in Conference Proceedings	Books	Total
20	02	33	02	57

Selected Publications

1. **Saood Ahmad**, Anish Bhargav, Anurag Gupta, V.N. Ojha and D.K. Aswal, “Calibrated Phasor Measurement Unit as a reliable Metrological tool for National Power grid operation in India”, **Current Science – Journal of Indian Academy of Science**, Vol. 121, No. 2, 2021; pp. 248 – 254.
2. **Saood Ahmad**, Michael Charles , Djamel Allal, P. S. Negi and V.N Ojha, “Realization of 2.4mm Coaxial Microcalorimeter System as National Standard of Microwave Power from 1 MHz to 50 GHz” , **MEASUREMENT – Journal of the International Measurement Confederation (IMEKO)**, **Measurement** 116 (2018) 106 - 113.
3. Jyoti Shah, **Saood Ahmad**, Rishu Chaujar, Nitin K Puri, P S Negi and R K Kotnala “Role of Magnetic Exchange Interaction due to Magnetic Anisotropy on Inverse Spin Hall Voltage at FeSi_{3%}/Pt Thin Film Bilayer Interface” **JMMM – International Journal of Magnetism and Magnetic Materials**, Vol. 443, 2017; pp. 159–164.
4. **Saood Ahmad**, Jyoti Shah, Nitin K. Puri, P. S. Negi, and R. K. Kotnala, “Influence on ferromagnetic resonance signal of perpendicular magnetic anisotropic Co/Pt bilayer thin film due to microwave induced spin-Hall effect”, **Applied Physics Letters**, 103, 032405, 2013.

Patents

I have been awarded six software copyrights in the field LF & HF Voltage, Current and Microwave Power Metrology.

Current Activities

(Not more than 100 words)

I have been assigned the responsibility to establish, maintain and upgrade the primary standards of LF & HF Voltage, Current and Microwave Metrology that are internationally accepted and disseminating the measurement traceability to industry, government, strategic and academia as per ISO/IEC:17025. **Took initiative and independently established** microwave power measurement techniques for improving measurement uncertainties. I have participated in workshop, training program and taking care all the related problems and managing them. Scientific & technical discussions with other NMIs to keep pace with the current advancements during my deputation abroad.

Honour(s)/Award(s)/ Fellowship(s)

Director CSIR-NPL certificate along with cash price for the software copyrights in 2011

Award for recognition in the field of Spintronic, (APL) from IISF (Bharat Jyoti Award 2013).

Best paper presentation award in oral category in ICTF-2017.

Contributions to AcSIR

As an associate professor, I am taking the classes and Lab in one year diploma course Precision Measurement and Quality Control (PMQC) under AcSIR. The paper name is AC & DV Voltage and Microwave. This course has been introduced under Skill India initiative to create a professional and talented man power for calibration industries in metrology.

Membership of Professional Societies/ Institutions

Metrology Society of India	(Life Member since 2006)
Instrumentation Society of India	(Life Member since 2009)
Swadeshi Science Movement of India	(Life Member since 2010)
Indian Science Congress Association	(Life Member since 2011)
Indian Vacuum Society	(Life Member since 2019)

Any other Information

(Not more than 100 words)

- Providing **apex level** calibration services to DRDO, ISRO, STQC Labs, BEL, 13-BRD Air force Palam, R&D and industrial organizations to ensure traceable accurate and precise measurements.
- Awarded **Ph.D** in 2018, “Microwave induced Spin Hall Effect measurements” from Department of Applied Physics, **Delhi Technological University**, New Delhi.
- Continued Education Program CEP by DRDO-SSPL in 2002
- Reliability Engineering Seminar by IIT Kharagpur in 2005
- Training programme by HRDC-CSIR in 2006
- Precision DC Measurement/Calibration by NPL in 2006
- International workshop on Nano Metrology by NPL-IARI in 2007
- Internal Laboratory Assessor Course (BIS-Noida) by NPL in 2008
- Intellectual Property Rights & Managements by NPL in 2009
- Training on Quality System : ISO 17025:2017 by HRDC in 2021
- Training on Quality System : ISO 17034:2016 by HRDC in 2021