

Bio-data

1. Name :Dr. Sanjay Yadav

2. Date of Birth:05-08-1962

3. Nationality Indian

4. Current position and Address: **Chief Scientist and Head,**
Physico-Mechanical Metrology Division
CSIR-National Physical Laboratory,
Dr. K.S. Krishnan Marg, New Delhi –

110060, India



Prof. Academy of Scientific and Innovative Research (AcSIR)
Faculty of Physical Sciences

Vice President, Metrology Society of India
Editor-in-Chief, MAPAN Journal of Metrology Society of India

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5. Educational Qualifications:

Degree	Subject	University/Institute	Year
B. Sc.	Phys., Chem., Math.	Meerut University	1983
M. Sc.	Physics (Electronics)	Meerut University	1985
Ph. D.	Physics (Worked at NPL, India)	Meerut University	1990

6. Details of previous employment/ academic and research experience

Sl. No.	Position Held / Research field	Name of the Organization	From	To
1.	Head, Physico-Mechanical Metrology	NPL, India	July 1, 2019	Till Now
2.	Chief Scientist	NPL, India	14-11-2017	Till Now
3.	Dy. Head, Physico-Mechanical Metrology	NPL, India	April 2017	June 30, 2019
4.	Senior Principal Scientist	NPL, India	14-11-2012	Till Now
5.	Prof. AcSIR, Faculty of Physical Sciences	NPL, India	14-11-2012	Till Now
6.	Principal Scientist	NPL, India	14-11-2008	13-11-2012
7.	Scientist E1	NPL, India	14-11-2004	13-11-2008
8.	Scientist C	NPL, India	14-11-2000	13-11-2003
9.	Scientist B	NPL, India	14-11-1995	13-11-2000
10.	Metrology Trainee	JICA and NMIJ, AIST	01-10-1998	01-08-1999
11.	Project Office	Science and Technology Department, Haryana	May 22, 1989	13-11-1995
12.	Research Scholar and SRF	Ministry of Home Affairs, Delhi and CSIR at NPL, India	Dec. 1, 1986	May 21, 1989

7. Important Foreign Deputations / Assignments

S. No	Name of the Lab / Inst visited	Duration	Funding Agency	Brief Job description
1.	D&H, France and LNE, France	June 22-26, 1998	D&H, France	Training in Pressure Metrology
2.	NRLM, Japan	Oct. 1998 to Aug. 1, 1999	JICA, Japan	Training on Research on Measurement Science Technology and Standards
3.	NMCL, Saudi Arabia	March 6 to May 3, 2003	SASO, Saudi Arabia	Expert in Pressure Metrology for the Development of Pressure Measurement Capabilities of NMCL, SASO, Saudi Arabia
4.	KIM-LIPI, Indonesia	4 days, 2014	PTB, Germany	To attend operational planning workshop
5.	D&H, France and LNE France	5 days, 2014	WIKA, Germany	Training on CCPG (model CPB 8000) along with the twin post differential pressure balance system
6.	BSB, Bhutan	2 days, 2016	PTB Germany	For attending “SAARC-PTB 5 th coordination meeting on Regional Cooperation in Metrology”
7.	NMIM, Malaysia	5 days, 2017	PTB Germany	To attend APMP/APMLF Joint Workshop, DEC Meeting and MEDEA Validation Workshop

8. No. of Publications:

Journals	Conference/ proceedings/ Invited Talks / Lectures	Books / Book Chapters	Total
147	241	13	401

9. Contributions in Books as Author, Contributor and Editor:

Editors / Author / Contributor	Book /Title of the chapter	Year of Pubn	Title of Book	Country	Edition No.	Publisher
Sanjay Yadav Pawan K. Arora Abid Haleem Harish Kumar	Book	2021-22	Proceedings of International Conference Mechanical and Energy Technology	Singapore		Springer (In process)
Sanjay Yadav Naveen Garg K P Chaudhary A K Gahlot Aman Dahiya	Book	2021	Confrence Proceedings Recent Advances in Metrology: Lecture Notes in Electrical Engineering	Singapore		Springer To be released shortly
K Govindan Harish Kumar Sanjay Yadav	Book	2021	Advances in Mechanical and Materials Technology: Lecture Notes in Mechanical Engineering	Singapore		Springer Completed (Coming soon)
Sanjay Yadav, G. Mandal, D.D. Shivagan, P. Sharma, A. Zafer and D. K. Aswal (Authors)	International Harmonization of Measurements <i>Part I: International Measurement</i>	2020	Metrology for Inclusive Growth of India (Edited by D.K. Aswal, under Publication)	Singapore		Springer

	<i>System</i>					
Sanjay Yadav, G. Mandal, D. D. Shivagan, P. Sharma, A. Zafer and D. K. Aswal (Authors)	International Measurement System: Journey with Time	2020	Metrology for Inclusive Growth of India (Edited by D.K. Aswal, under Publication)	Singapore		Springer
Sanjay Yadav, N. D. Sharma, S. S. K. Titus, S. K. Jaiswal, V. K. Jaiswal, N. Garg, K.Bapna, and D. K. Aswal (Authors)	Physico- Mechanical Metrology <i>Part I: Impetus for Inclusive Industrial Growth</i>	2020	Metrology for Inclusive Growth of India (Edited by D.K. Aswal, under Publication)	Singapore		Springer
Sanjay Yadav, G. Mandal, N. Singh, S.Pati, R.Sharma, G.Moona, M.Jewaria, D. D. Shivagan, K.Bapna, S. K. Jaiswal and V. K. Jaiswal and D. K. Aswal (Authors)	Physico- Mechanical Metrology <i>Part II: Mass and Length Metrology</i>	2020	Metrology for Inclusive Growth of India (Edited by D.K. Aswal, under Publication)	Singapore		Springer
Sanjay Yadav, D. D. Shivagan, K.Bapna, V.K. Jaiswal, P. Sharma, S.Saha, M. Singh, N. Garg, K.Soni, S. S. K. Titus and D. K.Aswal (Authors)	Physico- Mechanical Metrology <i>Part III: Thermal, Optical and Acoustic Metrology</i>	2020	Metrology for Inclusive Growth of India (Edited by D.K. Aswal, under Publication)	Singapore		Springer
Sanjay Yadav, S. S. K. Titus, R. Kumar, I. Elizabeth, N. D. Sharma, A. Kumar, P.K. Dubey, A. Zafer, S. K. Jaiswal, N. Garg, K.Bapna and D. K. Aswal (Authors)	Physico- Mechanical Metrology <i>Part IV: Force, Pressure and Flow Metrology</i>	2020	Metrology for Inclusive Growth of India (Edited by D.K. Aswal, under Publication)	Singapore		Springer
Sanjay Yadav, D. B. Singh, P. K. Arora and Harish Kumar (Editors)	Book	June 2020	Proceedings of International Conference in Mechanical and Energy Technology ISSN 2190-3018 ISSN	Singapore		Springer

			2190-3026 (electronic) https://doi.org/10.1007/978-981-15-2647-3 .			
DK Aswal, R. Mehrotra, Sanjay Yadav , SSK Titus, SK Jaiswal, N. Garg, DD Sivagan, SG Aggarwal, VK Jaiswal, DK Mishra, A. Zafer and I. Elizabeth (Editors)	Book	May, 2019	Redefined SI units and glimpses of NPL metrological activities	India		MSI, New Delhi
Sanjay Yadav , Afaqul Zafer, Indu Elizabeth and D.K. Aswal (Contributors)	Policy Document	May, 2019	NPL Policy on Metrological Traceability	India		NPL, New Delhi and MSI, New Delhi
Sanjay Yadav (author)	Industry Academia Interaction, pp 38-39	Feb. 2017	Glimpses. IISF-2016	India	-	IISF, New Delhi
Sanjay Yadav , R. Yaduvanshi (Editors)		Dec., 2017	Proceedings of Springer International Conference on Pattern Recognition (ICPR-2017)	India		Springer
Sanjay Yadav (author)	Industry Academia Interaction, pp 84-87	Dec. 2016	Programme Guide, IISF-2016	India	-	IISF, New Delhi
डा.वी.एन. ओझा, डा.के.पी. चौधरी, डॉ.संजययादव , डॉ.हरिकृष्णसिंह, डा.शंकरजीअग्रवाल, डॉ.सुधीरकुमारशर्मा	Book	May 2015	राष्ट्रीयसंगोष्ठी(मापिकी – 2014), शोधपत्रसंकलनपुस्तिका ISBN 978-93-5212-530-2	भारत	-	सीएसआईआर-राष्ट्रीयभौतिकप्रयोगशाला, नईदिल्ली

10. No. of Patents / copyrights

S. No.	Description of the Software	Registration No. / Date
1	Calibration of industrial master/reentrant type dead weight testers"	L-17058/97 /04.12.1997
2	Estimation of measurement uncertainty of pressure measuring instruments using simple piston gauges as standards	L-17733/98 / 17.09.1998
3	A complete software package for "Calibration of pressure measuring instruments"	L-19605 / 17.09.2001
4	"A software for calibration of pressure measuring instruments using DWT as pressure standard"	016 CR 2008 / 27.10.2008 Copyright Protection #SW-4502/2010
5	Low cost and high sensitivity polar-resistive humidity sensor, A. Kumar, Ravikant, S. Singh, H. Borkar, G. Gupta, S. Singh, P. K. Dubey, S.Yadav, V. N. Ojha	Indian patent No: 201711040726 (2017)

6.	An Experimental Design Setup for Testing of Half-Face Mask for 3D Parameters in 1 setting, S.G. Aggarwal, B. Kumar, P. Patel, K. Singh, D. Soni, P. Johri, C. Sharma and Sanjay Yadav	Under Process of filling
7.	Blood Pressure Pattern Approval Test Bench, Sanjay Yadav, Rahul Kumar, Ashok Kumar, P.K. Dubey, Afaqual Zafer, Nita Dilawar Sharma, Om Prakash, Harish Kumar, V. K. Gupta, S. K. Jaiswal and Ashutosh Agarwal	Under Process of filling
8.	Ultrasonic Pulse Velocity Tester Device with Threshold Error Correction, P K Dubey, Sanjay Yadav and Piyush .	Under Process of filling

11. Technology / Process / Product development:

Title	Year of Development	Developed / Commercialized
Improved Variable Frequency Ultrasonic Interferometer for Velocity and Attenuation Measurement in liquids to M/s PICO, Chennai	2019	Commercialized
3 Tesla Auto-Ranges Pulsed/Static Field Gauss Meter to M/s PICO, Chennai	2019	Commercialized
Calibration software to M/s MSME (RTC), Delhi.	2008	Software licensed
Calibration software to M/s Sushma Industries and Calibration Centre, Bangalore.	2008	Software licensed
Calibration software to M/s Birla Tyres, Balasore, Orissa	06-03-2002	Software licensed
Calibration software to M/s Ravika Engineers, Delhi.	26-12-2001	Software licensed
Calibration software to M/s TIET, Patiala.	26-12-2001	Software licensed

12. Honours, Recognition and Awards:

Award	Year	Award Org. / Inst.	Brief citation of the award work
Scholarship	1986	MHA, New Delhi	Research Scholarship for Ph. D.
SRF	1988	CSIR, New Delhi	SRF for Ph. D.
Col. G.N. Bajpai Prize	1989	Institution of Engineers, India	Best paper published in Journal for the year 1989
Commendation Certificate	1993	District Administration, Rohtak	For the outstanding work done during 1992-93
Commendation Certificate	1992	District Administration, Rohtak	For the outstanding work done during 1991-92
Appreciation Certificate	2003	NMCL, SASO, Saudi Arabia	Outstanding work for the development of pressure measurement capabilities
Appreciation Certificate	2005	NPL, New Delhi	Licensing of calibration software to M/s Ravika Engineers, New Delhi.
Appreciation Certificate	2005	NPL, New Delhi	Licensing of calibration software to M/s Birla Tires, Balasore.
Appreciation Certificate	2005	NPL, New Delhi	Licensing of calibration software to M/s TIET, Patiala.
Joint Secretary	2007	MSI, New Delhi	Elected Joint Secretary of MSI
Software Dev. Certificate	2008	NPL, New Delhi	Licensing of calibration software to M/s MSME (RTC), Delhi.
Software Dev. Certificate	2008	NPL, New Delhi	Licensing of calibration software to M/s Sushma Industries, Bangalore.
Member Editorial Board	2010	IJMQE, France	International J. of Metrology and Quality Engineering (IJMQE)
Joint Secretary	2010	MSI, New Delhi	Reelected Joint Secretary of MSI
Executive Council (EC)	2013	USI, Delhi	Elected to EC of USI, Delhi

Member, TCM	2014 to 2019	APMP	Member, Technical Committee of Mass Related Quantities (TCM), Asia Pacific Metrology Program (APMP) since 2014
Member, Scientific Committee	2014	Pretoria, South Africa	Nominated as International Metrology Conference (CAFMET 2014) held during March 31 to April 3, 201
Member, National Advisory Committee,	2014	Thapar University, Patiala	National Conference on Advances in Metrology (AdMet-2014) held during Feb. 19-21, 2014. Organised a half day “Workshop on Apex Level Standards and Industrial Metrology” on April 30, 2014.
General Secretary	2015	MSI, New Delhi	Elected General Secretary of MSI
Treasure	2015	USI, New Delhi	Nominated Treasurer of USI
Managing Editor	2015	MSI, New Delhi	Reappointed and continued as Managing Editor, MAPAN-JMSI
Member, Departmental Visiting Committee (DVC)	2015	National Institute of Engineering and Technology (NIT), Jalandhar, Punjab	Instrumentation and Control Engineering Department (ICE), 2015-2018.
Member, International Advisory Committee	2015	ITS Engineering College, Greater NOIDA	International Conference on Advancements and Recent Innovations in Mechanical, Production and Industrial Engineering (ARIMPIE-2015) held during April 10-11, 2015.
Co-Convener	2016	NPL and MSI, New Delhi	Nominated as Co-Convener of AdMet-2016
Coordinator	2016	NPL, New Delhi	Industry-Academia Meet during 2nd International Science Festival (IISF-2016), NPL, New Delhi
Editor-in-Chief	2017	MSI, New Delhi	Appointed as Editor-in-Chief, MAPAN-JMSI
Co-Convener	2017	NPL, New Delhi	APMP General /assembly and Related Meetings (APMP2017) at NPL, New Delhi, India
Member, National Advisory Committee	2017	NCU, Gurgaon	5 th National Conference on Advances in Metrology (AdMet-2017) held during March 23-25, 2017.
Member, International Advisory Committee	2017	ITS Engineering College, Greater NOIDA	International Conference on Advancements and Recent Innovations in Mechanical, Production and Industrial Engineering (ARIMPIE-2017) held during April 21-22, 2017.
Guest of Honour	2017	NIT, Delhi	Trends, Advances and New Challenges in Pressure Metrology” on Dec. 9, 2017
Treasurer	2018	MSI, New Delhi	Nominated as Treasurer of MSI
Guest of Honour	2018	M.M. University, Ambala	A Brief Journey in Pressure Metrology and Challenges Ahead” on May 05, 2018.
Coordinator	2019	NPL, New Delhi	First National Metrology Conclave (NMC-2019) held on Jan. 04, 2019 on “NPL@72: Expectations from Regulators, Certification Bodies, Industries and Scientific Institutions”
Vice President	2019	MSI, New Delhi	Elected as Vice President of MSI
Chairman, Finance and Member, National Advisory and LOC	2019	NPL, New Delhi and MSI, New Delhi	10 th International Conference on Advances of Metrology (AdMet-2019) held during Feb. 18-22, 2019.
NMI Contact Person in APMP	2019	APMP	APMP, Asia Pacific Metrology Program (APMP) since August 2019.
Member, DEC and TCFE	2019	APMP	APMP, Asia Pacific Metrology Program (APMP) since August 2019.
Keynote Speaker	2019	Galgotias College of Engineering	The re-definition of the SI Units and Their

		and Technology, Greater NOIDA, UP.	Implications: Why you should care, but not worry during International Conference on Mechanical and Energy Technologies (ICMET-2019) on Nov 7, 2019
Editor -in - Chief	2020	MSI, New Delhi	Renominated for next 3 years terms
Vice Chair	2020	NPL, New Delhi and MSI, New Delhi	5 th National AdMet-2020 Conference held during Jan 05-06, 2020
मुख्यअतिथि	2020	गुरुतेगबहादुरवरिष्ठमाध्यमिकविद्यालय, न्यूअशोकनागर, दिल्ली।	असफलताहीसफलताकीसीढ़ीहै, Success Starts from Failure, संजययादव, अटलटिकरिंगप्रयोगशालाकाउद्घाटनऔरवार्ता, 26 फरवरी, 2020
APMP AWARD for Developing Economies	2020	Asia Pacific Metrology Programme (APMP). Current APMP Secretariat is in China	Significant Contributions to the Development of Metrology and Metrologists in India and the SAARC Region. APMP General Assembly (GA) and Associated Meetings held in Nov.-Dec., 2020 through online platform
Member, Core Committee, Convener, NMC-2021	2021	NPL, New Delhi	3 rd National Metrology Conclave (NMC-2021) and Celebrations of NPL Foundation Day (Platinum, Jubilee Year) held on Jan. 04, 2021
Member, National Advisory Committee, Keynote Speaker	2021	MSIT, New Delhi	7 th National Conference on Advances in Metrology (AdMet 2021) held during March 5-7, 2021.
Member MO, TC6	2021	IMEKO, Hungary	International Confederation of Measurement (IMEKO), Hungary
Member, CCM, WGM and WGPV, BIPM	2020	BIPM, France	Consultative Committee of Mass Related Quantities (CCM), May 2021
Member, Governing Council	2021	FCRI. Palakkad, Kerala	For 2 years from April 2021

13. Any other information: Specialized Trainings / Research Experience

S. No.	Place	Duration	Year	Brief description
1	NPL, New Delhi	Nov. 3-6, 1997	1997	Uncertainty of Measurements and Methods of Evaluation under NPL-PTB Project
2	NPL, New Delhi	Aug. 12	1997	Workshop on Personnel Growth and Team Working under NPL-PTB Project
3	NPL, New Delhi	Feb. 4	1997	Quality Management for Standards Group Staff under NPL-PTB Project
4	Kyoto, Japan	June 20-21	1999	Attended International Workshop on Advances of Measurement Science
5	Osaka, Japan	June 13-18	1999	Attended XV IMEKO World Congress on the Measurement Science
6	D&H, France	June 22-26	1998	Training in Pressure Metrology
7	JICA, Japan	Oct. 25-29	1998	Basic Computer Training Course
8	JICA, Japan	Oct. 12-29	98-99	Japanese Language Course
9	NRLM, Japan	Oct. 98 to Aug. 99	98-99	Uncertainty Evaluation in Straightness Measurements
10	NPL, New Delhi	Aug. 6-10	2001	Advance Training Workshop on Mass and Volume Metrology
11	IIQM, Jaipur	Aug. 20-24	2001	Laboratory Assessor Training Course
12	NPL, New Delhi	Jan. 31- Feb. 03	2007	Laboratory Quality System & Internal Audit as per ISO/IEC – 17025

13	NPL, New Delhi	March 11-14	2008	Intellectual Property Rights with Special Reference to Patent Search and Drafting of Specifications
14	NPL, New Delhi	May	2017	Laboratory Assessors Course as per ISO/IEC – 17025
15	HRDC, Ghaziabad	April 16-20	2018	CSIR-Leadership Development Programme
16	IHC, New Delhi	May 12-13	2018	NABL Laboratory Assessors Programme on ISO/IEC – 17025(2017)

14. Expertise in Quality System and Accreditation

I have undergone specialized training courses in implementation of quality system and accreditation and updated knowledge through awareness programmes. Presently I am qualified Assessor as per ISO/IEC17025.

Training undertaken for ISO/IEC 17025, ISO 17034 and/or ISO/IEC 17065				
Title of Training	Duration	Year	Place of Training	Organized by
NABL Laboratory Assessors Programme on ISO/IEC – 17025(2017)	2 days	2018	IHC, New Delhi	NABL
Laboratory Assessor Course as per ISO/IEC 17025:2005	5 days	2017	CSIR-NPL, New Delhi	NABL
Quality System as Requirements of ISO/IEC 17043for Proficiency Testing Providers	4 days	2011	NABL and PTB, Germany	NABL and PTB, Germany
Laboratory Quality System & Internal Audit as per ISO/IEC - 17025	4 days	2007	CSIR-NPL, New Delhi	NABL
Laboratory Assessor Course as per ISO/IEC 17025:2005	5 days	2001	IIQM, Jaipur	NABL
Uncertainty of Measurements and Methods of Evaluation	4 days	1997	CSIR-NPL, New Delhi	PTB, Germany